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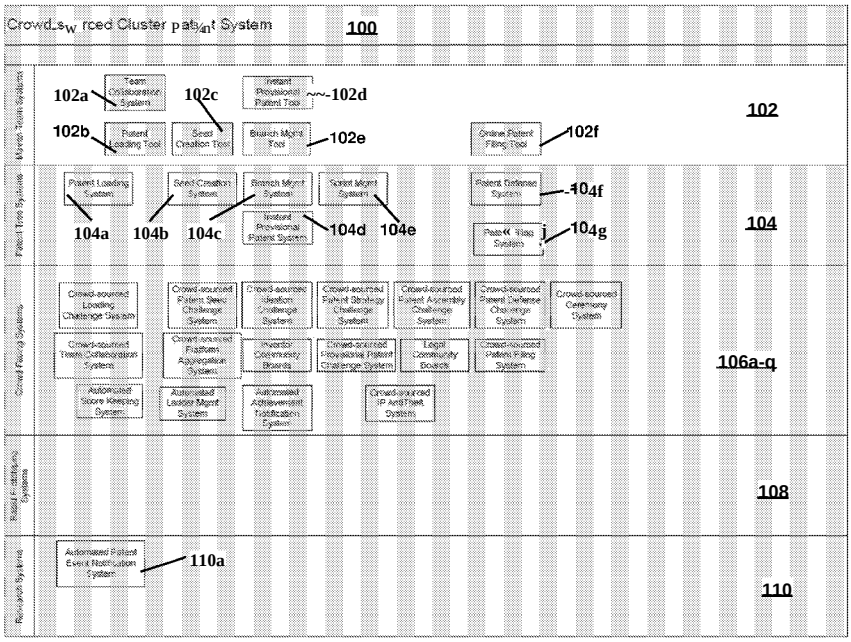

FIGURE 1A

(57) **Abstract:** A crowd-source cluster patent system and method are provided that magnifies the capability of a subject matter expert to manage crowd-sourced challenges in order to create derivative works from an original intangible asset. The System brings together crowds of inventors, and crowds of patent writers and crowds of patent attorneys in order to rapidly create high value, cluster Patents around a seed patent and file them.

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CROWD-SOURCED CLUSTER PATENT SYSTEM AND METHOD

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Priority Claim/Related Application

This application claims the benefit under 35 USC 119(e) and 120 to U.S. Provisional Patent Application Serial No. 61/584,058 filed on January 6, 2012 and entitled "Crowd-Sourced Cluster Patent System and Method", the entirety of which is incorporated herein by reference.

Appendices

Appendix A (an 85 page presentation) is a presentation describing a Crowd-Sourced Cluster Patent System and Method.

Appendix B (a 45 page document) contains wireframes of the various user interface screens of an example of the Crowd-Sourced Cluster Patent System.

The entirety of Appendices A and B form part of the specification and are incorporated herein by reference.

Field

The disclosure relates generally to a system and method for generating innovations based on crowd sourcing.

Background

Now that the America Invents Act has been enacted into law, individuals, LLCs, organizations, Corporations etc.need to be able to be the first to file a patent. Even corporations with world class IP harvesting processes outsource their patent filing process. After filing their first initial patent in a space, there are always extensions and holes in the patent. Cluster Patenting fills in the holes and finds the extensions. This process takes corporations several years to perform this task.

In a Corporate setting, there are multiple people in multiple organizations and external resources that need to collaborate and synchronize in order to come up with a Cluster Patent which causes the Cluster Patent Process to take years to come up with a protective portfolio of patents. The inefficiencies of communications between disparate groups causes tremendous increases in the time required to create cluster patents.

In Corporate settings, cluster patenting is subject to corporate politics where each organization has its own interests and has multiple approval processes to navigate.

Thus, it is desirable to provide a cluster patent system and method that overcomes the above limitations and it is to this end that the disclosure is directed.

Brief Description of the Drawings

Figures 1A, IB and 1C illustrate an implementation of the crowd-sourced cluster patent system and its components;

Figure 2 illustrates a method for crowd-sourced cluster patenting that may use the system in Figures 1A and IB;

Figure 3 illustrates an example of a patent tree management component of the crowd-sourced cluster patent system;

Figure 4 illustrates an example of a instant patent filing component of the crowd-sourced cluster patent system;

Figure 5 illustrates an example of a data schema for a scoring component of the crowd-sourced cluster patent system;

Figure 6 illustrate an example of a set of metrics that are part of the crowd-sourced cluster patent system; and

Figure 7 illustrate an example of an inventor profile system component of the crowd-sourced cluster patent system.

Detailed Description of One or More Embodiments

The disclosure is particularly applicable to the crowd-sourced cluster patent system and method that is described below and it is in this context that the disclosure will be described. It will be appreciated, however, that the system and method has greater utility since the system and/or method can be implemented in other ways that those disclosed below that are within the scope of the disclosure. Furthermore, the platform described below may be used with the

various intangible assets described below and is not limited to specific patent implementation described below.

The crowd-sourced cluster patent system magnifies the capability of a subject matter expert to manage crowd-sourced challenges in order to create derivative works from an original intangible asset. The System brings together crowds of inventors, and crowds of patent writers and crowds of patent attorneys in order to rapidly create high value, Cluster Patents around a seed patent and file them.

Figures 1A, IB and 1C illustrate an implementation of the crowd-sourced cluster patent system 50 and its components. The system may also be known as a crowd-sourced derivative asset system. Across all components of the Crowd-sourced Derivative Asset Creation System, every crowd member using the system will be identified by a unique user id. Those skilled in the art will understand that this unique user id could be manifest in the form of a cookie, a unique id in a database, etc. The unique user ids can be allocated to a specific software tool; a specific user or a specific execution of a software tool.

As shown in Figure 1C, the crowd-sourced cluster patent system 50 may include one or more computing devices 80, such as 80a, 80b,. .., 80n in Figure 1C, that may interact with a crowd-sourced cluster backend 100 over a link 90 as described below in more detail.

Each of the one or more computing devices 80 may be a computing device with one or more processors, a memory, a persistent storage device and circuitry for connectivity (wired or wireless) so that the computing device can connect to and exchange data with the crowd-sourced cluster backend 100. For example, the computing device may store and execute a browser application to connect to and exchange data with the crowd-sourced cluster backend 100 in the form of user interfaces, such as web pages. For example, each computing device may be a smartphone device, such as an Apple iPhone, RIM Blackberry and the like, a personal computer system, a laptop computer, a tablet computer, a terminal device or any other link connected device.

The link 90 may be a wired link or wireless link that allows digital data exchange between each computing device and the crowd-sourced cluster backend 100. The link may allow each computing device to establish a separate, but concurrent communications session

with the crowd-sourced cluster backend 100. The link 90 may be an Ethernet connection, the Internet, a computer network, a digital wireless data network, etc.

The crowd-sourced cluster backend 100 is shown in more detail in Figure 1A. The crowd-sourced cluster backend 100 may further include a store 101 that stores the various data associated with the crowd-sourced cluster backend 100 including user data, patent data and the like. The crowd-sourced cluster backend 100 may be implemented as a piece of hardware that is programmed to operate as described below, but may also be implemented as a plurality of lines of computer code that may be stored on a computer system and executed by one or more processor(s) of the computer system. The computer system may be one or more server computers, a computer system, one or more cloud based computing resources and the like wherein each computer system has one or more processors, a memory and other known components. The crowd-sourced cluster backend 100 may also be implemented on a computer readable medium, such as a compact disk, DVD, optical drive, etc. in which the plurality of lines of computer code or instructions are stored in the computer readable medium. Furthermore, the crowd-sourced cluster backend 100 may also be implemented as one or more downloadable files. In the client/server type architecture shown in Figure 1C, each computing device 80 may have a browser application or other application that allows the user of the computing device 80 to interact with the crowd-sourced cluster backend 100 as described below in more detail.

As shown in Figure 1A, the crowd-sourced cluster patent backend 100 may include, for example, a maven team system 102, a patent tree system 104, a crowd facing system 106, a rapid prototyping system 108 and a research system 110. Each of these systems (and the systems that are within each of the systems) in Figure 1A may be implemented as a plurality of lines of computer code that are executed on the computer system that hosts the backend 100. Each of the systems/components of the crowd-sourced cluster patent backend 100 may be geographically distributed (such as when cloud computing resources are used), but may also all be located in one location. The maven system 102 may be used by one or more experts in the area of the intangible asset and allows the experts to manage the crowd. For example, for a patent crowd sourced system, each maven may be an individual with knowledge about a patent.

The maven team system 102 may further include a team collaboration component 102a that promotes collaboration among the mavens of the system, a patent loading tool 102b that is

described below in more detail, a seed creation tool 102c described below in more detail, an instant provisional patent tool 102d described below in more detail, a branch management tool 102e described below in more detail and an online patent filing tool 102f described below in more detail. Each of these tools allow the one or more mavens to manage the members of the crowd during the challenges, the seed creation and the like as described below, in the figures and in the Appendices.

The patent tree system 104 may further include a patent loading system 104a described below in more detail that interacts with the patent loading tool 102a, a seed creation system 104b described below in more detail that interacts with the seed creation tool 102c, a branch management system 104c described below in more detail that interacts with the branch management tool 102e, an instant provisional patent system 104d described below in more detail that interacts with the branch management tool 102e and a sprint management system 104e described in more detail below. The patent tree system 104 may further include a patent defense system 104f described in more detail below and a patent filing system 104g described in more detail below that interacts with the online patent filing tool 102f.

The crowd facing system 106 may further include a crowd sourced loading challenge system 106a described below, a crowd sourced team collaboration system 106b as described below in more detail, an automated score keeping system 106c as described below in more detail, a crowd sourced patent seed challenge system 106d, a crowd sourced platform aggregation system 106e , an automated ladder management system 106f, a crowd sourced ideation challenge system 106g, an inventor community board 106h, an automated achievement notification system 106i, a crowd sourced patent strategy challenge system 106j, a crowd sourced provisional patent challenge system 106k, a crowd sourced IP antitheft system 1061 , a crowd sourced patent assembly challenge system 106m, a legal community board 106n, a crowd sourced patent defense challenge system 106o, a crowd sourced patent filing system 106p and/or a crowd sourced award ceremony system 106q.

The award ceremony system 106q may be implemented using a number of user interface screens. For an award ceremony, an administrative user may make a Prize Ladder using the automated ladder management system 106f and associates metrics with each Ladder Rung. The generated Prize Ladder may be associated with one or more challenges, such that whenever the Challenges are viewed, the Prize Ladder is visible as shown in the user interface

screens. Upon the conclusion of a challenge, the Domain Admin user can 'award' prizes using an AwardTool that may automatically display a list of users for the set of challenges associated with the Prize Ladder. The list of users may be sorted based on the metrics assigned at the beginning and the Admin User can award prizes by selecting users for the prizes that were defined at the beginning. When prizes are awarded, this information may be passed to the award ceremony system 106q which publishes the award to the public site and triggers the fulfillment of said awards. In addition to any IP assignment disclosure that was assented to join the site and an optional IP assignment disclosure that may have been required for the user to enter a specific challenge, the platform may generate and send the IP assignment forms for the winners to sign for the purposes of U.S. Patent office filings.

The research system 110 may further include an automated patent event notification system 110a that is described in more detail below and also described in co-pending patent application serial number 13/___,___ filed on _____ and titled "Automated Patent Event Notification System", the entirety of which is incorporated herein by reference. Figure IB shows further details of the crowd sourced platform including some of the same modules as shown in Figure 1A, such as the maven system, as well as other modules and system that are described in more detail in below.

Crowd-sourced Collaboration Challenge Management System

The heart of the system is a Crowd-sourced Collaboration Challenge Management System. Unlike existing Competition based systems where individuals are competing against each other in order to claim a prize, the Collaboration Challenge seeks to foster collaboration where the entire group of people who collaborate and build upon each other's ideas to come up with a winning product turns out to be the winner. In order to enable this "additive collaboration" where the sum of the collaboration creates a product more valuable than the individual parts, the system may use the threaded web forum and the wiki. Individually, these are distinct collaborative systems that are widely used and are successful in fostering collaboration of crowds. Forums are very successful to enable crowds to quickly identify a discussion's context and post responses without having to spend a significant amount of time doing research. Wiki's are very successful enabling crowds to have a crowd-mediated product that can be driven to completion. Both systems enable creation of ideas in a unstructured format.

The innovation that the Crowd-sourced Collaboration Challenge System consist of

1. a textual set of instructions typically given by an expert team.

2. A "seed" object that will provide all of the necessary background information and context for the challenge.

3. a structured concept of a "seed" data package which consists of all the components necessary to create an Intangible Asset, including all of the supporting materials. For example, in the case of a Patent claim, a "seed" could consist of the claim, summary claim paragraphs, detailed claim paragraphs, background paragraphs, references, diagrams, etc.

4. A user moderated, curated and controlled MicroWiki that represents a crowd-sourced community user' s response to the Challenge posted. Dynamically mirroring the structure of the seed of the Challenge, the MicroWiki may be composed of:

a. Dynamic moderated Wiki

b. Dynamic moderated Forum

both of which can accept the threaded posting of any of the components of a defined input seed as a forum posting.

c. Tools that enable the MicroWiki Moderators and Mavens to curate the MicroWiki. Some of these tools may include:

1. A Tool that may include the forum contributions into the moderated Wiki portion of the MicroWiki. By including Forum contributions, the author of the contribution becomes a co-moderator in the MicroWiki as well. The co-moderator list for the MicroWiki, then becomes the "potential inventor list" if the MicroWiki is selected by the Maven to become part of the intangible asset. This tool may enable the community to self-select their contributors and automatically provide an audit trail for whose contributions have been included.

2. A tool that may enable a Maven, and Moderators to quickly view who provided which contributions to the Moderated

Wiki so they can easily identify who contributed what to a MicroWiki. For example, if a patent attorney Maven needs to quickly decide who should be listed as inventor for a particular Idea MicroWiki, they would use this tool to look at all of the contributions (text, edits, diagrams, etc) of each user so they can determine whether or not a user contributed to the actual claim or not.

5. A user moderated and driven input mechanism that allows a community member to "promote" a particular forum posting to a wiki. This would have the effect of converting one or more forum postings into a single dynamically restructured wiki that is structured using the same seed type as the forum posting.

6. A dynamically restructured wiki that can accept the posting of any of the components of a defined input seed as a wiki submission.

For example, if the "seed" were composed of

1. a patent claim
2. background paragraphs
3. summary claim paragraphs
4. detailed claim paragraphs
5. diagrams
6. references
7. etc.

Then the dynamic forum would be created with the "seed" and configure itself to be able to accept postings of any of the components of the seed to create a "forum posting". This ability to rapidly post enables brainstorming in context of the posts around it. At some point, a community member could for example press a "promote" button that is tied to a specific forum post and this would create a dynamic wiki out of all of the components of that original post and the parent posts which are based on the same seed type. This would enable the community member to become moderator for the dynamic wiki around that idea.

There could be specific types of Challenges that are focused on different types of seeds. For example, we could have different seed types for Claim Ideation, Patent Assembly, Patent Defense, etc. As another example, one could make seeds to crowd-source operational tasks for example, Exceptions, Quality Assurance, etc.

From a community member's perspective, they would register for an account. Once they are approved for an account, they have access to their member homepage an example of which is shown on page 4 of Appendix B. On the member homepage, they would be able to view their event log which tells the member what relevant events are happening right now. The member would also have the ability to view his/her personal inventor statistics based on their activity across the platform. The member would have the ability to join challenges where participation points and inventor points can be earned. For members who have earned recognized achievements, there would be regularly scheduled ceremonies to honor the achievements. Community members would be welcome to join in the recognition and again obtain participation points for attendance and wishing the award winners well.

The community member would also have the choice to view available challenges (an example of the user interface is shown in pages 12-13 of Appendix B) which are made visible to them. Community members have customization selection settings that they control; however, the final set of challenges visible to the community member are also filtered by personalization selection settings defined by the platform owner, and personalization selection settings defined by the sponsor of the challenge. Examples of customization settings that a member could control include matching or excluding challenges based on their profile and personal choices. For example, this could include attributes indicating a level of personal interests, topic attributes, keyword attributes, category attributes, social network based recommendation engines, attribute based recommendation engine suggestions, etc.

Examples of platform owner settings can include or exclude a member from being able to see a particular challenge based on the member's profile attributes, the member's device attributes, the time of day, the challenge's profile attributes. This enables the presentation of a personalized list of challenges for a specific member. For example, some member's profile can be gathered explicitly or deduced implicitly. Example attributes that the system could gather could be:

1. number of active challenges that they are participating in

2. area of expertise
3. industry
4. employer
5. home address
6. birthday
7. work address
8. work hours
9. level of education
10. studentStatus
11. boundByProprietarylnformationAgreement
12. major area of study
13. minor area of study
14. personal hobbies
15. areas of interest

Examples of Challenge specific attributes could include

1. number of participants
2. number of active participants
3. posts per last hour
4. posts per hour average
5. ideas per hour
6. ideas per hour average

Based on the ruleset, a specific challenge may or may not be visible to the community member. For example, a platform requirement might be: if the member

1. has an employment agreement that prevents them from assigning IP and
2. is connecting using a corporate device
3. is working on company time

then don't let them see a specific set of challenges.

The system is able to identify that a user has an employment agreement and when the user tries to go into challenges sponsored by companies other than their employer, they will get a popup to get them to verify that they are not using the site on company time and are not using company devices to access the site. If the user chooses to assert that they are not using company time or devices, then we will log the response. This popup will happen each time the member tries to access challenges during likely working hours or from a company device. When the user is not working on company time, the popup will not show up. This can be done by asking the member for their employer, whether or not they have signed a proprietary information agreement with their employer, and what hours they work daily. Based on these factors, one skilled in software development can develop a system that fulfills the requirements above.

A sponsor will set a sponsor profile of attributes that will automatically apply to any intangible asset (IA) Tree that the sponsor starts. At each level (IA Tree, IA Branch, IA Sprint, IA Challenge) the attributes can be overridden by the sponsor. These attributes are used by member rulesets to identify challenges that may match member desires.

Sample Sponsor Attributes

- industry = { industryName |null }
- technology = { techName |null }

A sponsor's ruleset to define a community may include or exclude specific members from seeing their IA Tree related Challenges based on the member's attributes.

Sample Member Attributes

1. isCurrentlyStudent = { true |false }
2. isCurrentlyEmployed = { true |false }
3. employer = { employerName |null }
    1. ex: employer = IBM
4. industry = { industryName |null }
    1. ex. Industry = eCommerce
5. communities = { communityName |null }
    1. ex: communities = { student, Columbia, ... }

rulesets can be used to define membership in communities.

Student = { isCurrentlyStudent = true }

partTimeStudent = { employer != null and isCurrentlyStudent = true }

fullTimeStudent = { employer = null and isCurrentlyStudent = true }

In order to implement the view of Challenges visible to a specific community member, there are a number of components that are required. First, each community member needs to have a profile with a rich set of attributes that enable platform owners and sponsors to write rules that would match the user attributes. Second, each Challenge must have a rich profile of attributes that describe the Challenge in such a way that members would be able to write rules that would match the Challenge attributes. Platform owners, and sponsors have an easy to use interface that allows them to easily build up rules and rul esets to automatically filter and select the community members for their challenges. Community members also have an easy to use interface that allows them to easily build up rules and rulesets to automatically filter and select Challenges that are interesting to them. The sponsor rulesets are executed first to choose the subset of the community members who would be allowed to see the sponsor' s challenge. If a specific ruleset is not defined for a particular challenge, then the ruleset for the IA Sprint will be utilized. If there is no IA Sprint ruleset, then the system will use the IA Branch to select a ruleset. If the IA Branch does not have a ruleset, then the system will use the IA Tree ruleset as a default. An IA Tree must have a default ruleset which could be automatically seeded by the ruleset preferences of the company.

For Claim Ideation, the seed would be composed of the component parts of a Utility, Design or Plant patent. The Collaboration Challenge System could be hard coded, configured or dynamically configured to handle the different components of each of the types of patent.

For a Patent Strategy Challenge, the Patent Strategy Seed for example could be composed of

a. **Strategy Domain:** unique name for a strategy domain. This could be auto-filled or presented as a dropdown based on a library of existing Strategy Domains or a Legal Community member could create a new Strategy Domain that doesn't exist by entering in a textual name.

b. **Domain Tactic:** a Specific tactic within that domain

c. **Tactic Adaptation:** a specific set of instructions that describes how to adapt the tactic to the patent in question.

d. **Rationale:** a textual description of why this tactic is the best choice amongst the known universe of tactics within the domain.

For a Patent Assembly Challenge, the Patent Assembly Challenge seed could for example be composed of

a. **Original Seed** : A reference to the original Seed resulted from the Ideation Phase

b. **Legal Seed:** This Seed has the same anatomical structure of the original seed. The only difference is that every item has been reviewed and updated to legally supportable.

c. **Patent Components:** These are the parts of a patent that are properties of the patent overall and not specifically related to a single claim. Examples would include the abstract, inventor list, etc.

For a Patent Defense Challenge, the Patent Defense Seed could for example be composed of components of any of the following types of patent office action letters. For example in the USA, the USPTO might respond with

a. Examiner's Amendment Letter

b. Priority Action Letter

c. Office Action Letter

d. Suspension Letter

Depending on the type of letter or letters sent, the system would automatically scan, load and break the Letter contents into its components. From there the Maven Team would use the Seed Creation Tool to assemble the Seeds based on the sections of the Letter. These Seeds would then be used to initialize Challenges within the Branch and automatically invite the named inventors, strategy participants, and assembly participants to join the defense challenge. The end result of the defense Challenge will be to have a list of recommended courses of action.

Crowd-sourced Exception Handling and Quality Assurance

In order to handle Exceptions and Quality across all components of the system we can allocate Exception Handling Challenges and Quality Assurance Challenges for each of the components.

While one of the loading interfaces loads an intangible asset into the computer, there are exceptions that often happen. In order to handle exceptions, they must be categorized typically by Exception classes and then the exceptions are handled by people. Normally this is a manual process that requires an in-house staff to monitor exception logs and then manually fix the problem. In this system, the exceptions are routed to a Crowd-sourced IALS exception interface where exceptions are handled, corrected and the Intangible Asset components that triggered the exception placed back into the system for processing. Metrics regarding exception counts, rates are associated with the appropriate tools or user ids that caused the exceptions.

In order to handle crowd-sourcing of quality assurance of the Intangible Assets loaded, there will be a quality assurance crowd-sourced interface that enables the crowd to select a random sample of Intangible Asset components and validate them for their quality. Once the QA methodology has been defined by a trusted QA group, then the QA methodology can be posted and the general crowd can now participate in performing Quality Assurance on the Intangible Asset Components. When a Crowd member or trusted QA group member uses the IALS QA user interface to perform Quality Assurance checks on an Intangible Asset, they will assign the Intangible Asset Component a quality metric. This metric is then automatically associated to the Component and to the creator of the component. In this IALS QA user interface, QA metrics are gathered for the efficiency of the Crowd members' unique user id performing the QA role. Trusted QA group members will use a Trusted QA Interface to perform statistical sampling of the work done by Crowd members performing the QA role and will adjust the metrics associated with the particular Crowd Member's QA performance accordingly.

4. **Intangible Asset Loading System**

The Intangible Asset Loading System (IALS) enables an intangible asset to be loaded into a computer's memory and stored into persistent storage (like a file or a database) as a network of atomic components. Examples of Intangible Assets (IAs) include Patents (Utility Patents, Design Patents, Plant Patents, Reissue Patents, Defensive Publications (DEF) and

Statutory Invention Registration(SIR)); Copyright-able materials such as books, music, research and other forms of creative expression; Trademark or Service-mark and/or a piece of prior art. A defensive publication is a published article, white paper and/or description that is publicly available so that a third party cannot try to patent the ideas contained in the defensive publication and/or cannot assert that a claim covers the ideas contained in the defensive publication. For example, certain ideas generated by the crowd using the platform may have a patent property generated while other ideas that are not patented may have a defensive publication generated by the platform. The prior art may be a publication that may be used to invalidate another patent filing. The platform allows each type of intangible asset to be generated using crowd sourcing.

Each atomic component may be a paragraph, a diagram, a reference, a molecule definition, and/or other material described as a UNIT in RedBoook.XML or a similar unit in another format. In many cases, the system and method may define the atomic components for a particular type of intangible asset on an adhoc basis. For example, for a patent, the atomic components may include a paragraph or text, a diagram and a reference to another piece of content. Each of the atomic components are assigned a unique identification numbers so they can be easily identified, referenced, traced, and reused in future derivative works. There can be multiple interfaces to the IALS. One loading interface could consist of a tool that reads a document type definition of the intangible asset and then loads the intangible asset into memory as atomic components. Each atomic component is assigned a unique ID and a relationship between each of the atomic components is maintained. Each loading interface tool is assigned a unique user id. Another loading interface could be a crowd-sourced loading interface where the crowd is provided a copy of the intangible asset in question and they can use whatever means they can to break down the intangible asset into its constituent parts. The user interface enables the crowd member to associate the newly entered component of the Intangible Asset with another component of the Intangible Asset. Each component of the Intangible Asset is given a unique ID. Each member of the crowd using the crowd-sourced loading interface is assigned a unique user id. The crowd-sourced interface is particularly helpful when automated tools are not available. Metrics regarding volume, quality, and other user specific metrics are associated with the user's unique id. The atomic components and their relationships to each other are stored in a database.

Crowd-sourced Patent Loading System is an example of an Intangible Asset Loading System.

In this case, the Intangible Asset is a Patent.

1. **Patent Loading Tool** (102b) is a software tool that enables an individual to automatically load the patent into its atomic components. For example, one skilled in the art would be able to write a tool using java, xjc and jaxb to load a xml patent into its atomic components based on the USPTO redbook document type definitions.

2. **Crowd-sourced Patent Loading User Interface** (106a) that enables a member of the crowd to enter in a paragraph of a patent into the User Interface whereupon it will be given a unique id, categorized as a particular type of patent component and associated with a designated patent.

5. Intangible Asset Seed Creation System (104b)

The Intangible Asset Seed Creation System (IASCS) is a system that takes atomic components of an Intangible Asset and groups the atomic components into seeds based on rules for seed creation. There can be two general interfaces to the IASCS - an automated tool (102c) that reads the rule file and groups the Intangible Asset Components which were loaded by a IALS into seeds or a Crowd-sourced User Interface (106d) that allows people to use a UI to manually group the Intangible Asset Components into seeds so they can be loaded into a crowd-sourced branch management system for processing. Given an Intangible Asset key that defines the root Intangible Asset component, both systems read the atomic data

Patent Seed Creation System (104b)

An example of an Intangible Asset Seed Creation System would be a Patent Seed Creation System. In this specific implementation, the Patent Seed Creation System would have two input systems whose exceptions and quality could be monitored by the overarching Exception Challenges and QA Challenges.

Patent Seed Creation Tool is a software tool that enables the user select a Seed configuration file and a Seed generation ruleset; connect to the in-memory Intangible Asset Components or the persisted Intangible Asset Components; create

an empty Seed object; and populate the empty Seed Object with references or copies of the Intangible Asset components that match the Seed generation rules.

Crowd-sourced Patent Seed Creation User Interface is a Crowd-sourced UI that enables crowd members to manually navigate through the Patent Components and create a patent seed out of these components. Standard Seed validation rulesets can be applied to ensure the resulting seed does not violate any obvious rules.

Crowd-sourced Challenge Management System

The Crowd-sourced Challenge Management System is comprised of the following components:

1. **Administrator User Interface** - The Administrator Interface enables a user with administrative rights to fix problems for the Maven Team or for the Crowd. Basic UI functions will include 1. fetching logs so the administrator can identify issues. 2. restarting components of the overall system. 3. overriding default values and settings in the system to obtain the desired effect, with the appropriate audit logging in place.

In the Enterprise Model, each organization that uses this platform has an Administrative User Interface where they can manage the entire life-cycle of Intangible Asset Trees being built for their organization. The basic functions they will have include

1. Intangible Asset Tree Monitoring tools
2. Intangible Asset Tree Funding tools
3. Intangible Asset Purchasing interfaces

Maven Team System (102) - the Maven Team System is a set of user interfaces that enables an individual expert or a team of experts to guide and collaborate with the crowd in order to create Intangible Assets. The Maven Team tools will include:

GENERAL MAVEN TEAM SYSTEM FUNCTIONS Across all Intangible Asset Tree Phases:

1. Intangible Asset Seed Reviewing and Routing

- Routing IA Seed to continuation Challenge with specific guidance
- Routing one or more IA Seeds to Instant Provisional IA Filing
- Routing one or more IA Seeds to create a new IA Branch
- Selection of IA Seed as a new base claim, then execute Both 2 and 3.
    - o Selection of IA Seed as complete.

2. Collection of selected Seeds to act upon.
3. Sprint Management

- Creation of a Sprint (a time bound race to run a challenge within)
- Creation of Challenges given a Seed : this tool simply enables the Maven Team to put a textual comment to set a goal for the community building ideas around Seed
    - Lining up a Challenge for a Sprint (could be ordered, random, etc)
    - Setting up Sprint Staggering (staggering would give the Maven Team time to process the results of one Challenge before needing to process the results of the next Challenge. The default value could be automatically populated based on the Maven Team's throughput metrics.
    - Launching of Sprints
    - Launching one off Challenges
    - Ending or extending Sprints
    - Ending or extending one off Challenges

4. Creation of Challenges using a Contribution node in the forum.
5. Instant Provisional Intangible Asset Filing given a Seed or set of Seeds

- Example: Instant Provisional Patent Filing System would be one implementation. See below.

6. Creation of Intangible Asset Branches given a Seed

- With an optional routing first to the Instant Intangible Asset Filing System prior to creation of the first Challenge. There are 2 options:
  - Default setting is to route it here prior. Maven Team member would have to consciously unselect it.
  - Default setting to route seed directly to a Challenge initialization, so the Maven Team would have to consciously choose to route seed to Instant Intangible Asset Filing System unset Example: Instant Provisional Patent Filing.

7. **IA Ceremony Tools**

- Automated Award Announcements: once the maven team selects a set of winning IA results from a challenge, automated award announcements are sent out to all participants who contributed to the winning results.
- Automated Monetary Awards: once the maven team selects a set of winning IA results from a Challenge, the monetary awards are automatically paid out based on the list of participants who contributed to the final result.

IA Bootstrapping Phase Tools

1. Intangible Asset Loading
2. Intangible Asset Seed Creation and Editing

IA Ideation Phase Tools

1. Ability to route Seeds to an outsourced Ideation Challenge

- via Crowd-source Aggegation System.
- By outsourced Ideation Challenge instance hosted on a vendor's site.

IA Strategy Phase Tools

1. **Ability to route Seed to an outsourced Strategy Challenge:**

- via crowd-sourced aggregation system
- by externally outsourced Strategy Challenge instance at a vendor's site.

2. **Automated Strategy recommendation tool:** this system lists a table of patent strategies in a easy to use format and allows the Maven Team to select predefined strategies that would for example include:

- *Architecture Model Strategies*
  - Client - Server protection
  - Client-Server-Client protection
  - Peer to Peer protection
  - Client only protection
- *Litigation Model Strategies*
  - Enable litigation against user as infringer (esp. B2B models)
  - Enable litigation against producer/provider of the system as infringer
  - Enable litigation against supplier to the system as infringer

1. *Global Coverage Strategies*
   1. List of countries to file in.
2. Etc.

By selecting specific strategies for each Seed, Challenges are automatically generated based on the strategies selected.

IA Assembly Phase Tools

1. **Ability to direct an IA Seed to an outsourced Assembly Challenge**
   - Via Crowd-source Aggregation Platform
   - By an outsourced Assembly Challenge instance hosted at a vendors site.

2. **IA Filing Tool:** Ability to gather IA Seed results from the IA Assembly Phase Tools and load them into a IA Filing Tool. The IA Filing Tool would enable rapid editing, review and online or manual filing of the intangible asset in order to obtain a federal grant for intangible asset ownership. For example, if the Intangible Asset being processed were a Patent, then this would be routed to the Patent Filing

Tool. The Patent Filing tool would enable the rapid editing and review of the patent gathered from the assembly phase. If there were one or more components that were not satisfactory, of course the resulting IA Seed could be rerouted back into another IA Assembly Challenge to be remediated using the general maven team system functions and tools.

IA Defense Phase Tools

1. **Ability to direct an IA Seed to an outsourced IA Defense Challenge**

- Via Crowd-source Aggregation Platform
- By an outsourced Assembly Challenge instance hosted at a vendors site.

2. **Patent Office Challenge Letter Loader:** this would be an automatic system to scan and perform optical character recognition on the patent office challenge letter. Once it is loaded, it is automatically shredded into its component parts and loaded into the Seed Generation Editor. Once the IA Defense Seed is created, the seed is loaded into a IA Defense Challenge. One example of this would be a Patent Defense Challenge.

3. **Automated Inventor Invitation Tool:** this tool would enable to automatic invitation into the Defense Challenge of the participants of the inventors whose names are on the relevant claims being questioned by the patent office.

IA Fruition Phase Tools

1. **Ability to direct to an outsourced Fulfillment Management vendor**

- Via Crowd-source Aggregation Platform
- By an outsourced Fulfillment Management instance hosted at a vendors site.
- **Client IA Grant Lay-away Area:** The Lay-away area is a temporary storage area that enables a client to hold an IA Grant until the Lay-away term expires. If the lay-away term expires for a specific IA Grant then it is transferred to a general IA Grant Inventory.
- **Automatic IA Grant and milestone notification tool** - As IA Grants happen, they start the clock and for a predetermined amount of time

periodically notify the client how much time is left to purchase the IA Grant. The period of the milestone notifications are adjustable by the client. Each notification includes a link to the client's invoice.

- **Automatic client invoice system** - The client invoicing system requires authentication. As IA Grants happen, they are automatically added to the client's online invoice. On the invoice, each line item has a link to the granted Intangible Asset (ie patent, copyright, trademark, etc) Grant for client review. The client has the option of laying-away specific invoice line items which will put the IA Grant in a temporary lay-away area. At any time, until the IA Grant Lay-away terms expire, the client can add a lay-away item back into their invoice and pay for it.
- **Automatic one-click IA Invoice payment** - When a client goes to their invoice, by default all IA Grants are on the invoice and selected to be purchased. The client can click one button to buy everything listed in the invoice. The one-click button activates the system to check the user's payment methods (PO, prepaid account, bank account, paypal, credit card, etc) and automatically uses the user's preferred method of payment. If the preferred method of payment is insufficient to fulfill payment, then the client is given the option to split payment over multiple payment instruments. Notification of this kind of event is sent to the operations team and the client's sales representative. If paying via multiple payment instruments fails, then notification is again sent to operations and the sales representative for the client and the transaction fails.

2. **Crowd-sourced Intangible Asset Tree Management System** - the CIATMS is a system and method for harnessing the capabilities of the crowd in order to create high quality Intangible Assets. The CIATMS comprises an Intangible Asset Tree container which is initialized with an Intangible Asset Seed. The IATree contains one or more Branches which are containers whose goal is to produce a single Intangible Asset at the end. Each IATree Branch contains a sequence of Crowd-sourced Phases. Each Phase contains one or more Sprints that are run sequentially one-after the other.

Each Sprint contains one or more Crowd-sourced Challenges which are run simultaneously plus a stagger value.

Example System Walkthrough

To bootstrap an IA Tree, the Maven Team System uses an Intangible Asset Seed to create one or more IATree Branches. Each branch is initialized with an Intangible Asset Seed and an initial challenge text as the focus for the entire branch. The initial challenge text is used to populate the first contribution of the Forum and the IA Seed is used to populate the Challenge's wiki description of the challenge. At this point, members can create "ideas" by clicking on a "new idea" button and submitting a contribution which may consist of text, diagrams, or any other IA Seed component. The contribution is added to the forum. The idea is initialized with the minimally the following three components:

1. an empty IA Seed which will be populated by the crowd
2. a reference to the originating contribution
3. a reference to a wiki interface configured to present the IA Seed to the crowds.

The system then traverses the originating contribution and proceeds walking up the forum post hierarchy and gathering contribution components until the system reaches another contribution that is used by another idea. All of the member ids of the contributors of the ancestor forum posts are invited to become moderators for the Idea Wiki to which they have contributed. The contributions of the ancestors are all gathered and sorted into the empty IA Seed as the beginning of a new IA Seed. In another situation, members can continue refining ideas by posting additional contributions until it becomes an idea that someone in the community strongly believes in and decides to "promote" to an "idea". At this point the same process is performed when a member pressed the "new idea" button. In this scenario, the community member who volunteers to "promote" an idea also becomes a moderator for the Idea Wiki.

Crowd-sourced Challenge Management System

The Crowd-sourced Challenge Management System enables an expert team system (Maven Team System) to manage the crowd-source creation of Intangible Assets. The goal of the Maven team is to manage all aspects of the creation of Crowd-sourced Intangible Products including

1. Intangible Asset Loading Challenges
2. Intangible Asset Seed Creation Challenges
3. Intangible Asset Ideation Challenges
4. Intangible Asset Strategy Challenges
5. Intangible Asset Assembly Challenges
6. Intangible Asset Defense Challenges

The Maven Team must also be able to incentivize the crowd in order to keep them motivated to work. The Platform supports the following incentive systems to motivate the crowd for collaborating to create a desired Intangible Product.

a. Material Awards

I. Award Ceremonies

II. Monetary Awards

III. Token Awards (Patent Plaques, Badges, Team Trophies, etc)

b. Virtual Awards

I. Virtual Award Ceremonies

II. Virtual Status

1. Points
2. Inventor Profile
3. Ladders
4. Followers

III. Virtual Tokens (Patent Plaque image, Badge image, Team Trophy Image, etc) for each member's personal Virtual Trophy Case.

3. Patent Tree Management System

One example of an Intangible Asset Tree Management System would be a Patent Tree Management System as shown in Figure 3. The data-structures used to manage the forums, wikis and challenges may be, for example, as shown in Figure 3

Member to Member Messaging (M2M Messaging)

Members are able to communicate with each other in a variety of methods on the Platform as shown in Figure IB. This would include common methods including IM, email, posting to the person's public blog, or posting to the person's private blog. The M2M system will support public communications (multicast) as well as private communications (unicast). The M2M system will also support privacy in messaging so unwanted communications will not expose your contact information.

These kinds of 1-to-l messaging systems are prevalent and we would integrate one or more of these 1-to-l messaging systems into our platform. In order to support the requirement of not giving away the user's true contact information, we would have a protocol proxy that would enable the member to substitute their member name for their actual name. For example, if member A wanted to connect to member B via IM, then they would connect to a well-known IM proxy user for the company hosting the M2M service, then usernames would be replaced with the public profile names in both directions. This would then enable the users to IM each other using their own accounts without exposing their actual IM account IDs. This simple kind of pseudonymous proxying can be enabled for email, IM, IRC, and any other communication protocol.

Instant Patent Filing System (IPFS)

The IPFS (shown for example as 104g in Figure 1A) is composed of a Patent Seed Editor; a system to transform Patent Seed format into Provisional Patent format; and a connection to submit Provisional Patents to USPTO. An example of the IPFS component is shown in Figure 4. The Patent Seed Editor can load a Crowd-sourced Seed or Collection of Seeds. In the Patent Seed Editor, an expert can reorder the seed order which will change the order of the text of all seed components in the corresponding patent sections accordingly. When the user is satisfied with the order of the materials, the Patent Seed Editor can be used to generate the Provisional Patent forms with a textual format of the invention along with diagrams. The resulting Provisional Patent document can be submitted either electronically or printed and sent via regular mail.

The IPFS is an example of an intangible asset generation system that generates one or more additional intangible assets from the original intangible asset, such as cluster patents from an original patent or a piece of prior art based on an original patent.

Automated Score Keeping System (ASKS)

ASKS is an automated score keeping system that is composed of a database of ladders. The ASKS system comprises the following components:

1. Metric is a table that defines a metric type that is gathered in the Points table.
2. Points is a table that keeps track of all points earned throughout the system for a particular metric for a particular user.
3. Ladder is a table that links the Metric, Points and Users tables so a periodic Ladder can be generated.
4. LadderPageGenerator is a program that periodically runs over all Ladder types and generates an HTML page that summarizes the state of the ladder for a period of time. The page is stored into a structured page hierarchy that enables historical viewing of historical HTML pages of ladders for a given year, month, week, day and hour.
5. The Ladder Page hierarchy is periodically checked into a version control system for purposes of disaster recovery and replication.
6. A PointProbe is a piece of code that can be used to gather a specific type of point throughout the system and can be added to the system using Aspect Oriented Programming or directly implemented to gather data into the code of the system.

An example of a set of sample metrics that we would configure into the system are shown in Figure 5 and 6 and, more specifically, an exemplary list is shown in Figure 6.

On the input side, ASKS can be configured to support specific types of metric types. Ladder types can be configured to be tracked for each of the metric types. Once the metrics and ladders are configured, ASKS dynamically tracks specific metric readings for a particular user from a PointProbe and stores it into the Points table. Periodic processes like the Ladder Page Generator can query the Ladder table to find all the elements in the Points table that are relevant for a time period and then can iterate over all memberlDs and calculate the scores for each member. As the Ladder Page Generator stores the HTML files into the filesystem, they are checked into a version control system from where clone LadderServers can obtain replicated ladder content.

Inventor Profile System (IPS)

The Inventor Profile System is a system and method for enabling an inventor to see how they personally compare as an inventor using objective inventor metrics as a means for comparison. Given the ASKS database exists, the Inventor Profile System provides granular metrics on how well an Inventor performs as an individual. A user will have access to a view which includes only rows where the user is the signed in Inventor. All of this information is made available on the Inventor's statistics page, an example of which is shown in Figure 7.

Crowd-sourced IP Anti-Theft System (IP-ATS)

The IP Anti-Theft System is a system to address the possibility of a rogue community member trying to "misappropriate" IP from the crowd-sourced platform. There are a few ways that IP can be misappropriated from the platform. The first threat we address is the threat of a rogue member filing a patent based on the contents of an on-going Challenge. In order to mitigate this risk, before a Challenge is started, we file provisional patents for any idea that might be newly patentable. Furthermore, as a particular Challenge begins, we keep indelible logs of the discussion stream and creation of ideas. The logs will track every event within a challenge for example:

1. Who joined what challenge at what time
2. who made the posts at what time
3. who read which post at what time

These audit logs can be used in future litigation. These logs will provide time and dates down to the second as to when ideas were posted. With this logged in an indelible fashion (eg. Centerra, or printouts and US mail or some other means), then we would use multiple methods to monitor the patent application stream and the patent grant stream. There could be many ways that we could monitor and notify IP-ATS of a questionable application or grant. This could be done manually through crowd-sourcing or through the A-PENS system to automatically detect a patent application becoming visible or a patent being granted that would have been filed in the 2 week timeframe before we had filed our provisional. If we found a Patent application or patent grant that looks questionable, then the IP-ATS would automatically check the following:

1. Is the inventor of the patent application that looks like it may have been stolen from our site a member of our community.

2. Is the inventor associated to a member of our community via a social-network. (facebook, linkedin, Google+, myspace, etc) Those skilled in the art know how to utilize the social graph APIs to navigate the relationships. Given the set of people who were active in the Challenge in question, we can search the social graph of the members to see if they are somehow associated with the inventor of the patent application that looks like it may have been stolen from our site.

Automated Patent Event Notification System (A-PENS)

See more details in Appendix A for this component.

Automated Patent Research Information Library System (APRILS)

The APRILS is a Crowd-sourced System that enables a maven team to fund a specific amount of research in order to generate a research library of references to materials that will help the crowd move forward. APRILS will allow the Maven Team to seed a Intangible Asset Tree Library with URLs to research. Based on funding, APRILS leverages and aggregates other crowd-sourcing platforms like Amazon Mechanical Turk, CrowdFlower, Clickworker, etc for the purpose of rapidly gathering research information and references for use within a particular patent tree. As another method of input, APRILS will accept reference additions by any community member. APRILS automatically makes the URLs to references available in the research library for a particular patent tree. On a Forum Contribution basis, APRILS can automatically match reference URLs that may be relevant to the specific Forum Contribution and then a community member can read the reference to either support or debunk the Contribution.

Inventory of Tools

Additional tools available to the community members include

Additional tools available to the community members include tools that facilitate the Crowd to do the tasks set forth for them to accomplish. For example, some of the tools may include a palette tool for each component of the Seed being used for the Contribution or Idea:

1. A research palette tool (implemented using javascript or other technology) which is populated either by an expert team, other community members, or a crowd-sourced subsystem like APRILS. These research links are made available to Community Members in context of a specific Idea or Contribution that they are

examining. This could be activated by a roll-over or a button click or some other action. The relevant links could automatically be sorted to put the most relevant links toward the top. When someone analyzes the reference and verifies that it is relevant, then they can submit it as a contribution.

2. A drawing palette tool which is a library of unnamed stock drawings that can be rapidly browsed, labeled and submitted in response to another contribution. The drawing palette tool can be activated in context of a Contribution by a roll-over, button click, or some other action. The relevant drawings could automatically be sorted to put the most relevant drawings (eg. The drawings with the right number of boxes and relationships) toward the top of the list.

3. A Background text palette tool which is a library of Background paragraphs used to describe previous Seeds.

4. etc.

The components described above are also described in Appendix A that forms part of the specification and is incorporated herein by reference.

In addition to the use of the platform to generate ideas and intangible assets, such as patents, as described above, the platform also may be used for searching for prior art for one or more claims of a patent using a similar procedure and components as described above.

While the foregoing has been with reference to a particular embodiment of the invention, it will be appreciated by those skilled in the art that changes in this embodiment may be made without departing from the principles and spirit of the disclosure, the scope of which is defined by the appended claims.

Crowd-sourced Cluster Patent System

SOUYUN LEE
WEI-YEH LEE

Industry Need: Problem Statement

- Now that the America Invents Act has been enacted into law, Corporations need to be able to be the first to file a patent.
- Even the corporations with world class IP harvesting processes outsource their patent filing process.
- After filing their first initial patent in a space, there are always extensions and holes in the patent. Cluster Patenting fills in the holes and finds the extensions. This process takes corporations several years to perform this task.

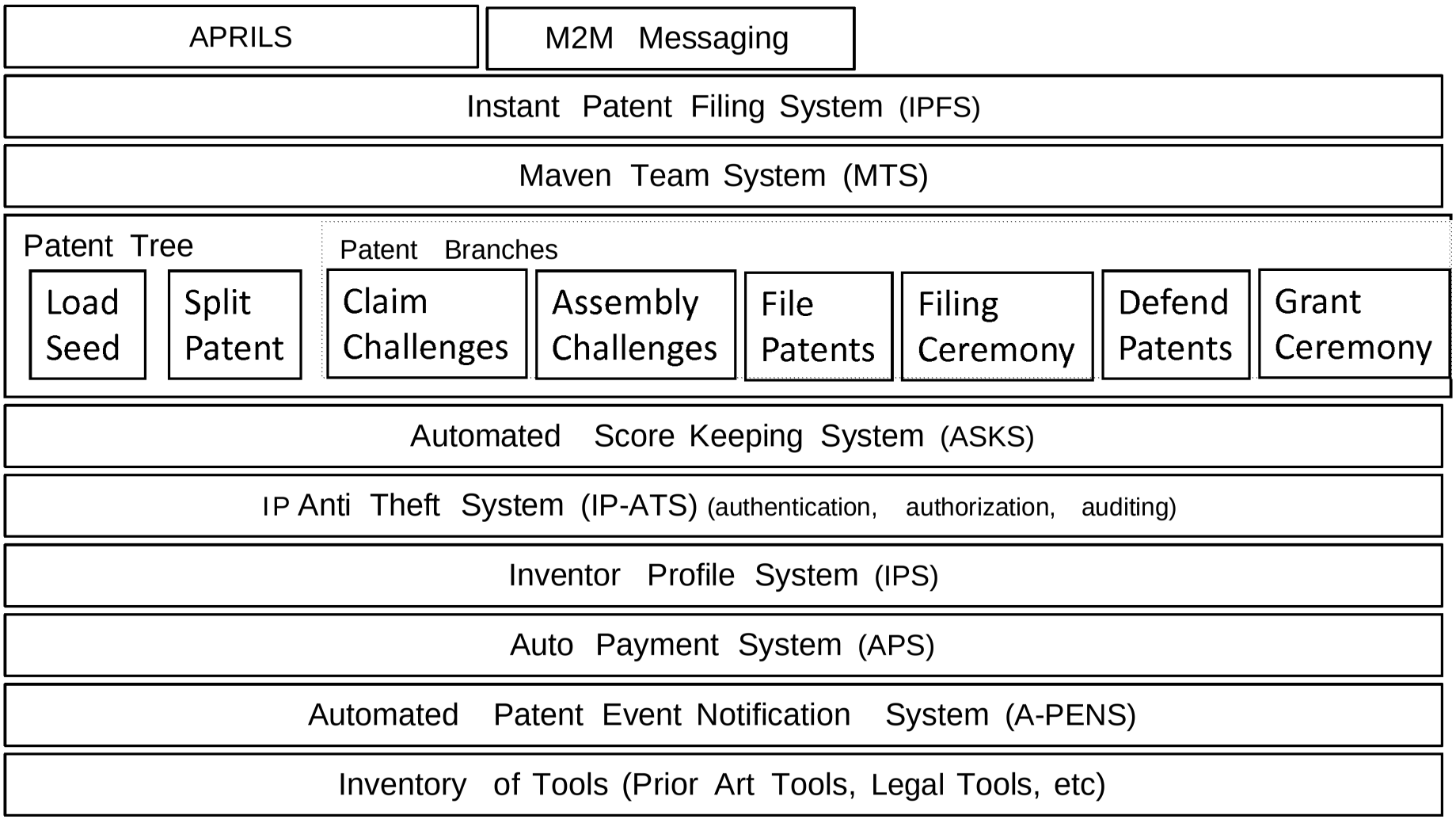
Industry Need: Problem Statement

- In a Corporate setting, there are multiple people in multiple organizations and external resources that need to collaborate and synchronize in order to come up with a Cluster Patent which causes the Cluster Patent Process to take years to come up with a protective portfolio of patents.
- In Corporate settings, cluster patenting is subject to corporate politics where each organization has its own interests and has multiple approval processes to navigate.

CCPS Solution

- The InProTopia Crowd-sourced Cluster Patent System brings together crowds of inventors, and crowds of patent writers and crowds of patent attorneys in order to rapidly create high value, Cluster Patents around a seed patent and file them.
- First reference of this Crowd-sourced Cluster Patent System is mentioned in a previous patent filing.
- This patent filing will extend the previous filing to include several key components.

High Level System



Intangible Asset Loading System

Claims:

1. System and Method that enables an intangible asset to be loaded into its atomic components

- 2. System and Method in claim 1 where zero or more pre-challenge module may be inserted before each collaboration challenge module to pre-process the data before letting it enter a collaboration challenge module whereby the entire assembly line creates an intangible product.

Crowd-source Branch Management System

Claims:

- 3. System and Method in claim 1 where zero or more post-challenge module may be inserted after each collaboration challenge module to post-process the crowd generated data whereby the series of 1 or more collaboration challenges produces an intangible product.
- 4. System and Methods in claims 2 and 3 where zero or more pre-challenge modules and zero or more post-challenge module are inserted before or after a collaboration challenge module whereby the series of 1 or more collaboration challenges produces an intangible product.

Crowd-source Branch Management System

Claims:

- 3. System and Method in claim 1where zero or more post-challenge module may be inserted after each collaboration challenge module to post-process the crowd generated data whereby the series of 1or more collaboration challenges produces an intangible product.
- 4. System and Methods in claims 2 and 3 where zero or more pre-challenge modules and zero or more post-challenge module are inserted before or after a collaboration challenge module whereby the series of 1or more collaboration challenges produces an intangible product.

Crowd-source Branch Management System

Claims:

- 5. System and Method that enables the management of crowds to produce intangible products that comprises of
  - Zero or more pre-challenge module s
  - Zero or more post-challenge modules
  - One or more collaboration stream module in series
- 6. System and Method that enables the management of crowds to produce intangible products that comprises of
  - Zero or more pre-challenge modules to preprocess the data going into a collaboration stream module
  - Zero or more post-challenge modules to post process the data coming out of a collaboration stream module.
  - One or more collaboration stream modules
  - a sprint management module

Crowd-source Cluster Patent System

Claims:

- 1. System and Method that enables an expert or expert team to guide and manage crowds to produce intangible products that comprises of a Maven Team System, an Intangible Asset Loading System, an Intangible Asset Splitting System, one or more Intangible Asset Seeds, a Crowd-sourced Challenge Management System

Crowd-source Branch Management System

Claims:

- 3. System and Method in claim 1where zero or more post-challenge module may be inserted after each collaboration challenge module to post-process the crowd generated data whereby the series of 1or more collaboration challenges produces an intangible product.
- 4. System and Methods in claims 2 and 3 where zero or more pre-challenge modules and zero or more post-challenge module are inserted before or after a collaboration challenge module whereby the series of 1or more collaboration challenges produces an intangible product.

Crowd-source Branch Management System

Claims:

- 5. System and Method that enables the management of crowds to produce intangible products that comprises of
  - Zero or more pre-challenge module s
  - Zero or more post-challenge modules
  - One or more collaboration stream module in series
- 6. System and Method that enables the management of crowds to produce intangible products that comprises of
  - Zero or more pre-challenge modules to preprocess the data going into a collaboration stream module
  - Zero or more post-challenge modules to post process the data coming out of a collaboration stream module.
  - One or more collaboration stream modules
  - a sprint management module

Crowd-sourced Cluster Patent System Components (Part 1 / 6)

- **Crowd-sourced Cluster Patent System** creates takes a seed patent as an input and generates multiple cluster patents. The System is comprised of the following components:
  - **Crowd-sourced Maven Team Collaboration System** – System and Method to leverage master mind groups to manage an innovation process within their team. (crowd-sourced or not) (GLG, Edison, etc)
    - **Crowd-sourced Patent Loading and Aggregation System** – System and Method to enable community to create multiple Atomic Stream Modules and group multiple Stream Modules into one Aggregate Stream Module.
    - **Crowd-sourced Patent Splitting System** - System and Method to enable community members to split patent components into parallel patent streams. Once the patent is split into a new stream, the components are submitted for rapid provisional patent creation and filing.
    - **Instant Provisional Patent System** - System and Method to enable rapid provisional patent filing based on templates.
    - **Crowd-sourced Patent Filing Subsystem** ~ System and Method to take multiple patent assembly streams and crowd-source the review and automatic filing of multiple patents.
    - **Crowd-sourced Patent Claim Strategy Collaboration subsystem** - System and Method to enable crowds-sourcing of patent strategy collaboration
    - **Crowd-sourced Patent Assembly Collaboration subsystem** - System and Method to enable crowds-sourcing of patent assembly collaboration
    - **Crowd-sourced Patent Strategy Collaboration subsystem** - System and Method to enable crowds-sourcing of patent strategy collaboration
    - **Crowd-sourced Patent Pruning Subsystem** - System and Method to enable Maven Team members prune threads which will notify the community as to why the thread was pruned.
    - **Automatic Patent Defense Invitation tool** ~ invitation tool to easily t[illegible]he

Crowd-sourced Cluster Patent System Components (Part 2 / 6)

Crowd-sourced Cluster Patent System is also comprised of the following components:

- **Crowd-sourced Maven Team Competition System** - System and Method to enable multiple master mind groups to compete against each other to produce the best end result.
- **Collaborative Patent Crowd-sourced Platform Aggregation System** - System and method to aggregate other communities to make it perform as one community.
- **Crowd-sourced Collaboration Branch Management System**
  - **Crowd-sourced Patent Claim Collaboration Module** – System and Method to enable network connected communities to extending patent claims, participate in refining, grouping, splitting, busting patent claims. On the side, the user would have patent claim references and tools
  - **Patent Defense Team System** - System and Method to enable inventors of claims within a patent submission to collaborate in order to defend patent claims when USPTO or other Patent Offices come back with a challenge to the patent application associated with this stream.
  - **Crowd-sourced Patent Assembly Collaboration System** – System and Method to enable crowdsourcing Patent Assembly Collaboration.

Crowd-sourced Cluster Patent System Components (Part 3 / 6)

Crowd-sourced Cluster Patent System is also comprised of the following components:

- **Automated Patent Event Notification System** -- System and Method to monitor key patent lifecycle events and notify a client of the event based on the client's configuration.
- **Automatic Score Keeping System**– System and method to automatically manage the full lifecycle of metrics including definition, gathering, cleansing, displaying.
- **Automated Ladder Management System**
- **Crowd-sourced IP AntiTheft System** -- System & Method to protect Crowd Sourced IP claims and patents leveraging the America Invents Act's Post Grant Petition process. (Authentication, Authorization and Auditing)
- **Automated Achievement Notification System** – System and method to automatically generate web pages, email and other media to notify participants of their achievements. This includes patent app#, metrics.

Crowd-sourced Cluster Patent System Components (Part 4 / 6)

Crowd-sourced Cluster Patent System is also comprised of the following components:

- **Crowd-sourced Awards Ceremony System** -- System and Method to manage a virtual awards ceremony for community members.
- **Automatic Payment System** – System and method to automatically do the accounting and payment of Patent Collaboration Contests.
- **Inventor Profile System**– System and Method to enable community members to view their own and each other's patent metrics and performances.
- **Virtual Trophy Case System** – System and Method to enable inventors to keep track of their accomplishments on the Cluster Patent System.
- **Crowd-sourced Patent Toolkit System** – System and Method to enable a set of patent tools to be managed by both administrators and individual members.

Crowd-sourced Cluster Patent System Components (Part 5 / 6)

Crowd-sourced Cluster Patent System is also comprised of the following components:

- **Automatic Prototype Requirement Integration System** – System and Method to enable the Maven Team to select key claim threads and send automatically send it to a prototype team for prototyping in parallel to the Patent Streams. Results from the prototype team automatically come back to the Maven Team where they can decide whether or not to put the results back into the Patent Streams or not.
- **Challenge List Personalization System** – System and Method to match Challenge attributes and member profile attributes to find the best matches for each individual. (this will fulfill the requirement of Manny Schecter from IBM)
- **Social Media Authentication System** – System and Method to enable a community member to verify their identity

Crowd-sourced Cluster Patent System Components (Part 6 / 6)

Crowd-sourced Cluster Patent System is also comprised of the following components:

- **Crowd-sourced Patent Branch Selection System** - System and Method that enables members to select which patent streams they want to participate in.
  - If member is currently makes all branches and subbranches to the participant's current patent stream visible for them to choose which stream they would like to participate in during the next sprint.
- **Challenge List Personalization System** - System and Method to match Challenge attributes and member profile attributes to find the best matches for each individual. (this will fulfill the requirement of Manny Schecter from IBM)
- **Social Media Authentication System** - System and Method to enable a community member to verify their identity
- **Patent Seed Transferal System from a Forum to a Wiki Format.**

Proprietary Research System

Crowd-sourced Patent Branch Selection System

- **Problem:** a crowd-source community member needs to be directed to specific Challenges that balance a multitude of factors - client requirements, personal interest, participation volume requirements.
- **Solution:**
  - **Client Requirements:**
    - Clients may set participant filter attributes on a seed patent basis. Example exclusionary values might be Employer="ABC Corporation"
  - **Critical Mass/Launch Volume Requirements:**
    - A patent branch can be set with a participation threshold which will make it unlaunchable until the threshold is met.
  - **Member interest:**
    - If member is currently in a patent branch, the current patent branch and all new patent branches derived from the current patent stream are made available in the member's Challenge List.
    - For members who are new to this Patent Tree, they will be given a series of multiple choice questions that will be seeded from the existing patent streams in progress to guide the new user to the patent stream that matches their interest.

Automated Copy Alerting System

- Automated Copy Alerting System
  - **Problem:** a crowd-source community member may maliciously post IP on a public forum thus making it prior art. This prior art can then be used to invalidate our future patents.
  - **Solution:** Before starting a crowd-sourced claims collaboration challenge, we will file Provisional Patents that are broad enough to capture the space that will be discussed in the coming challenge. Once the challenge is posted and new claim ideas are posted, the Automated Copy Alerting System will periodically search the Internet. If the same or similar key text is being posted elsewhere on the internet, the operations staff is alerted. At this point, the operations people can halt the operation of that particular Patent Stream or component of the stream to mitigate further copying. The inventor who came up with the patentable idea will then be allowed to post on a private platform and privately invite trusted participants to join the private stream.

Strategy Cloaking Products

Strategy Cloaking Products (Operational Trade Secret)

- Patent Smoke Screen
  - **Problem:** Competitors watch your patent flow and can learn strategic directions based on patents filed.
  - **Solution:** When moving into a new area, a client will give us 2 or more patents which are different ways to implement the same technology. The patents will likely be filed in the client's name so it is clear that the IP is owned by the company; however since there are 2 or more patents being clustered, if there is a spy in the community, they can't tell which direction the client is going. Once they become visible and are granted it is still not clear which direction the company is going.
- Stealth Patent Product
  - **Problem:** Competitors will watch patent assignments to get a sense of your strategic directions.
  - **Solution:** Used in conjunction with the Patent Smoke Screen, InProTopia will sell a Stealth Patent Portfolio Product where InProTopia will be custodian of the key patent clusters around a client's key patent with an exclusive license to the client until the client goes to market with the product. At this time, the client can exit by 1) buying the patent portfolio 2) buying an exclusive perpetual license 3) etc.
    - What if they choose to abandon? What is InProTopia's risk?

Maven Team System: Problem Statement

- **Problem Statement:** It is a challenge to enable the original inventor to collaborate with external resources efficiently to scale out the capabilities and know-how of the inventor.

Maven Team System: Solution

- **Maven Team System-** System and Method to enable an expert team to collaborate manage a Crowd Sourced Process for a particular seed patent.
  - **Crowd-sourced Patent Splitting System** - System and Method to enable community members or Maven Team members to automatically split an existing patent into parallel execution components
  - **Crowd-sourced Patent Pruning Subsystem** - System and Method to enable Maven Team members prune threads which will notify the community as to why the thread was pruned.
  - **Crowd-sourced Patent Filing Subsystem** ~ System and Method to take multiple patent assembly streams , review and select which patents need to be filed and which patents need rework. (provisional, utility, design, etc)
  - **Crowd-sourced Patent Claim Strategy Collaboration subsystem** - System and Method to enable crowds-sourcing of patent strategy collaboration
  - **Crowd-sourced Patent Assembly Strategy Collaboration subsystem -** System and Method to enable crowds-sourcing of patent strategy collaboration

CCPS: Maven Team System

- Maven Team System (MTS) - This system enables the Maven Team to manage the Cluster Patent System for a particular Seed Patent.
  - Patent Loading
  - Patent Splitting
  - Patent Seed Gathering and Routing
  - Launching Sprints
  - Creation of Buds
  - Instant Patent Filing
  - Creation of Branches
  - Declare Claims and Patents (Flowers)
  - Full Patent Filing
  - Patent Defense (insecticide or other defense for fruit)
  - Awards Selection
    - Claims
    - Assembly
    - Defense
    - Grants
  - Create Award Ceremony
  - Patent Grant

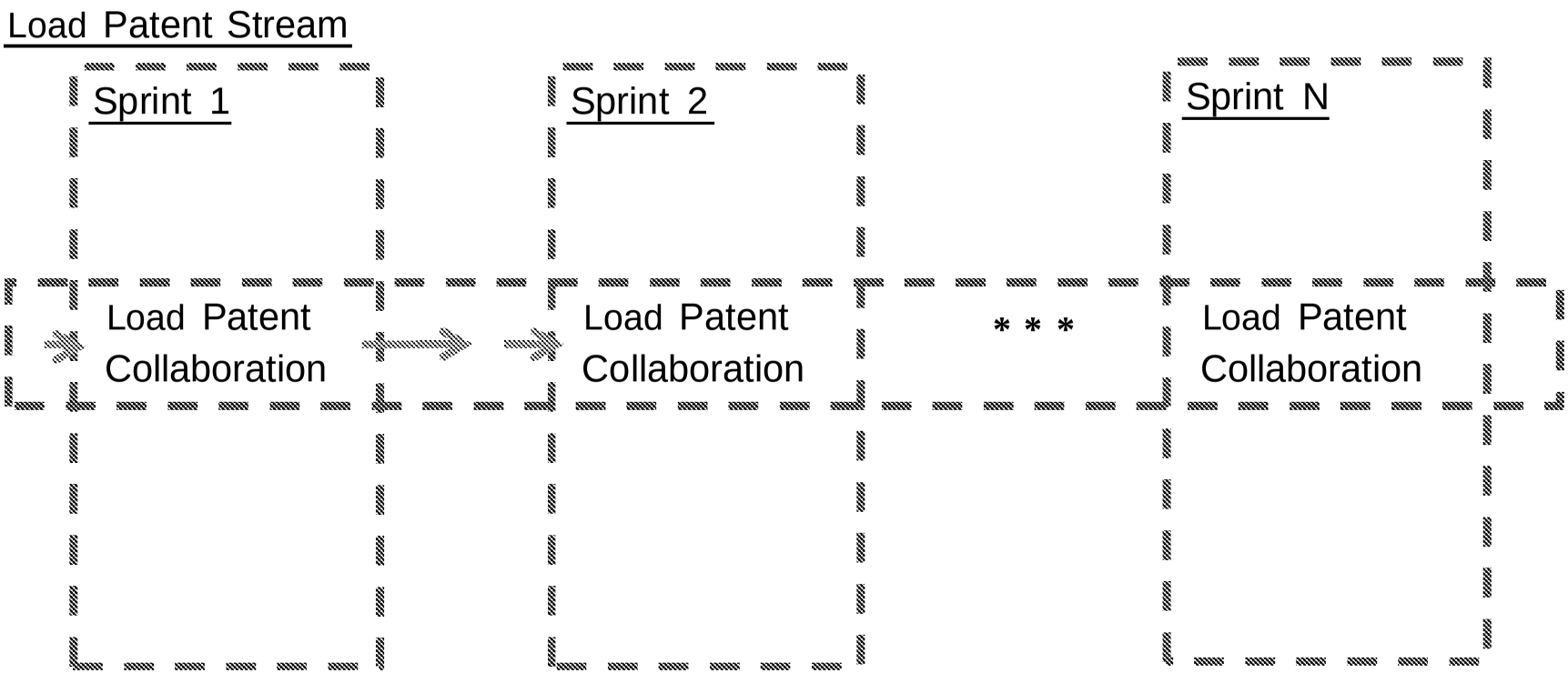
MTS: Load Seed Patent System

PROBLEM Statement: In order to allow a person to decide how to separate seed patent material into multiple Patent Streams, we need a method to rapidly load a patent into Stream Modules that can be easily used to seed a new Patent Stream.

SOLUTION:

- **Automated Load Patent Module**
  - Takes an entire patent document as input.
  - Breaks down the Patent into Stream Modules which consist of
    - One or more claims
    - Background information for claims in the module
    - Summary and details for claims in the module
    - Diagrams associated with the claims in the module
    - References associated with the claims in the module
- **Manual Load Patent Module**
  - Takes an entire patent document as input (either as XML or text)
  - Enables the community to collaborate to
    - Break a patent into atomic Stream Modules
    - Review and edit Automatically generated Stream Modules
    - Aggregated two or more Stream Modules into an aggregated Stream Module

MTS: Load Seed Patent System



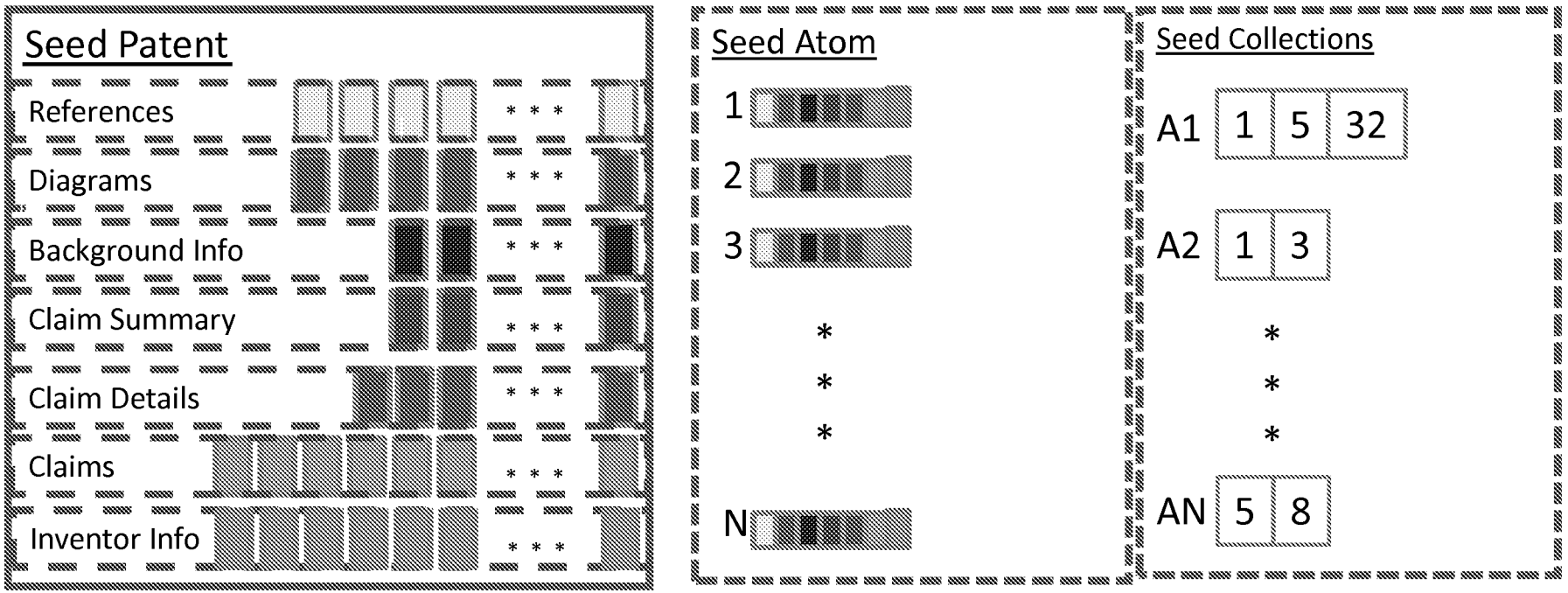
Maven Team Review: Enables Maven Team route tasks to **Rapid Provisional Patent System** , creating new Patent Claim Streams, etc.

Load Patent Stream: Series of collaborations that takes an existing patent and loads its components into the system.

Sprint: Challenges are run at a specific tempo and could be staggered.

MTS: LSPS: What is a Seed?

Seed Composition



Seed Patent: IP Material provided to be decomposed into atomic and aggregated Stream Modules.

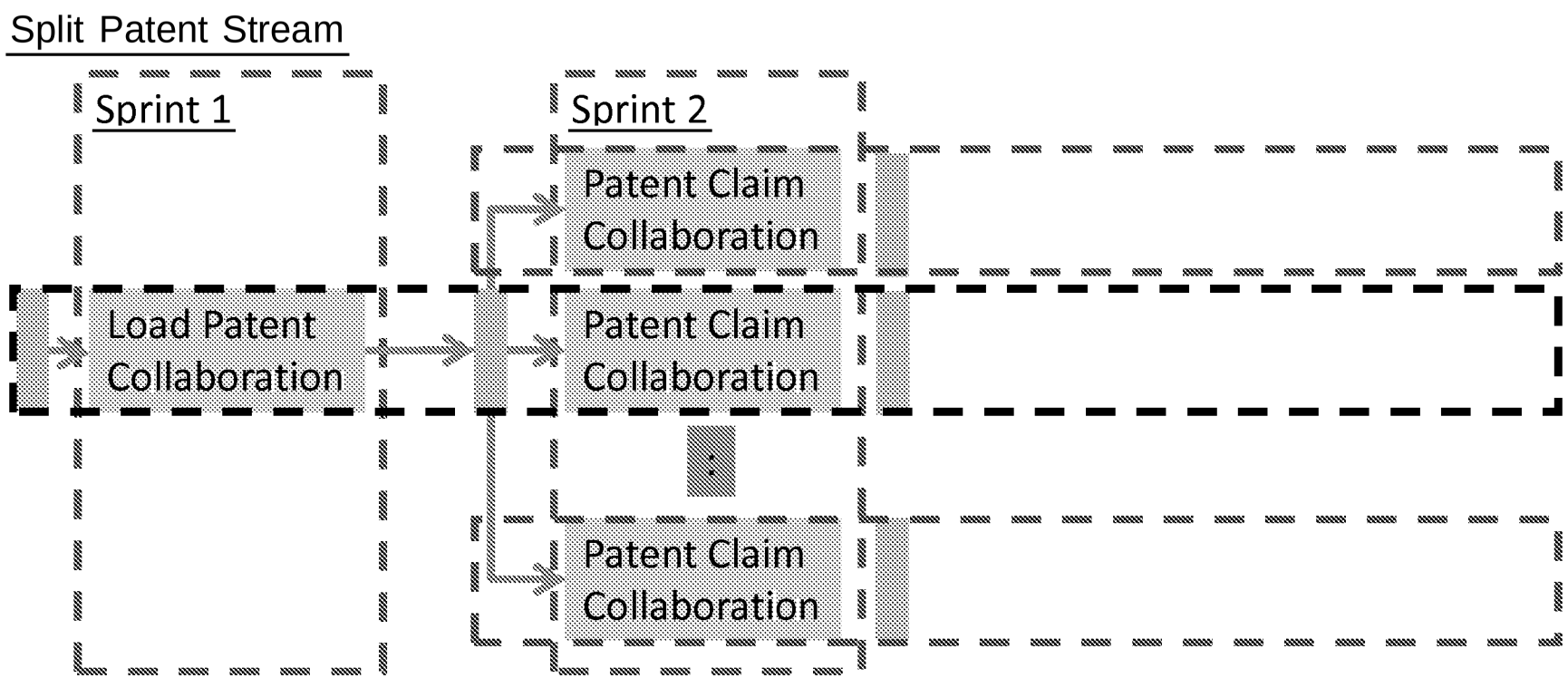
Atomic Stream Modules: data packages composed all material related to a single claim

Aggregate Stream Module: data packages aggregates 1 or more Atomic or Aggregate Stream Modules

MTS: Split Patent Subsystem of Maven System

- **Problem Statement:** It is a challenge to automatically load a patent application, granted patent, or other IP into the crowd-sourced system so that it can be easily and logically divided into challenges.
- **Split Patent Subsystem Solution**
  - Takes in multiple Stream Modules (references, background info, claims, diagrams)
  - Enables User to group Stream Modules
  - Enables User to create new Patent Streams using a Stream Module as its input.

MTS: Split Patent Subsystem of Maven System



Maven Team Review Module: the Maven Teann has access to a Split Patent tool that enables them to group, select

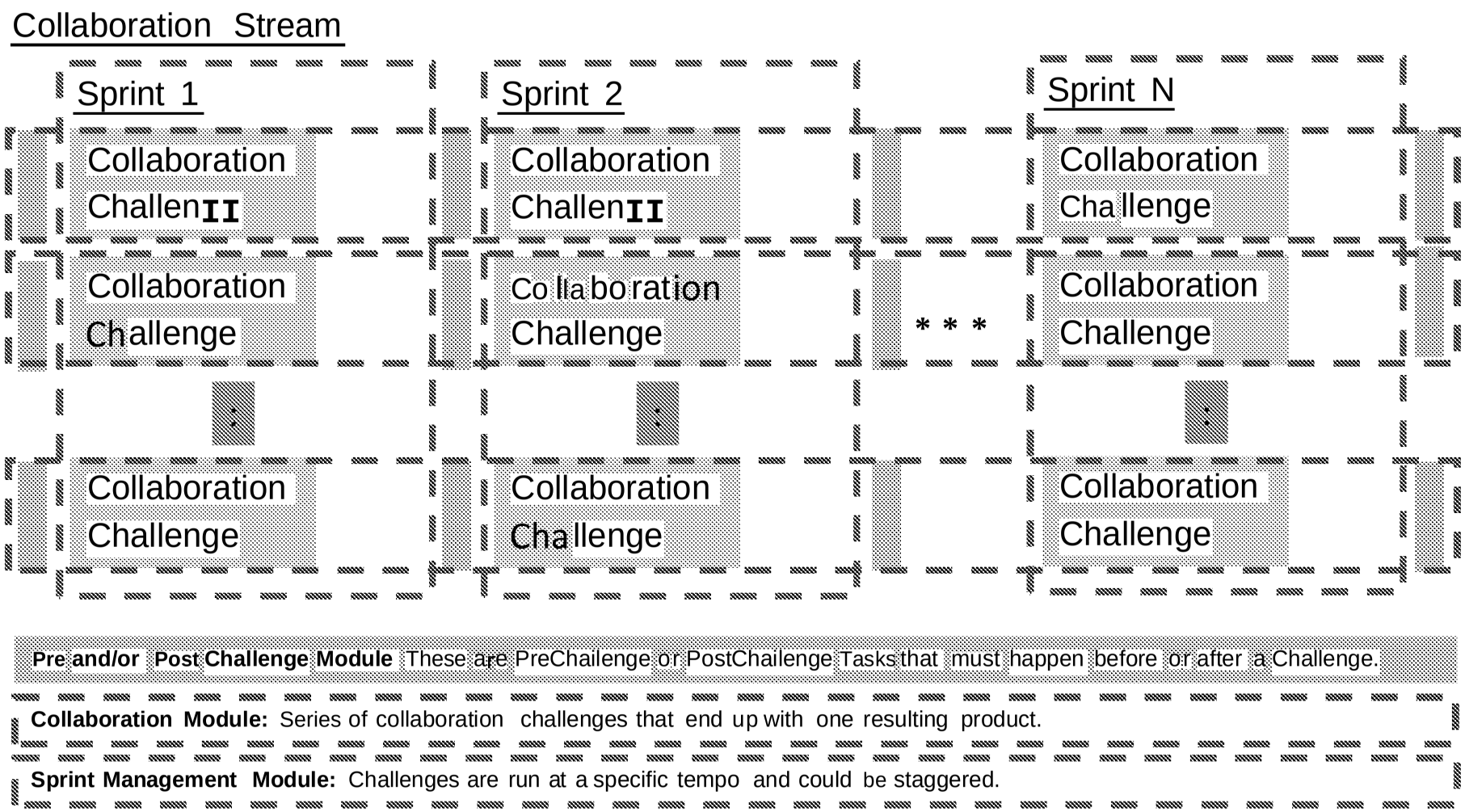
Patent Stream: Series of coNaboration challenges that end up as the raw material (background, claims, diagrams, etc) for one patent. 1

Sprint: Challenges are run at a specific tempo and could be staggered.

CCPS: Branch Management System

- **Problem Statement:** After the Maven Team or community loads and splits a seed patent, the Maven Team will be challenged to manage the crowd-sourced lifecycle of the single patent from ideation to strategy to assembly to filing to defense to grant.
- **Patent Branch Solution**
  - Create Patent Branch
  - Create and run Sprints
    - Claim Sprints, Strategy Sprints, Assembly Sprints, Defense Sprints, etc
    - Create new patent branches from any given sprint
  - Create and run Award Ceremonies

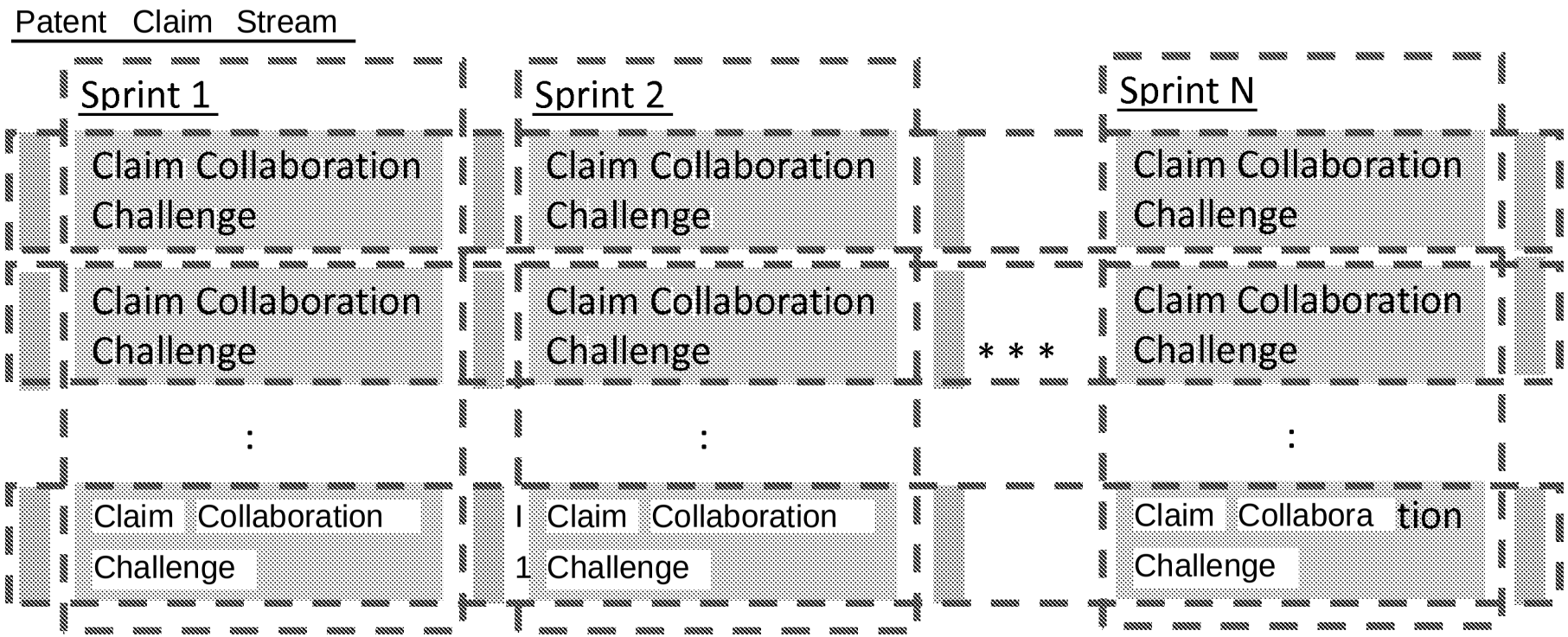
Crowd-source Collaboration Branch Management System



Crowd-sourced Claim Collaboration Module: Problem Statement

- **Problem Statement:** In order to harness the creative power of the crowds, it is a challenge to enable many disparate people to collaborate to create all of the components of a patent claim and come to consensus.
- **Problem Statement:** with multiple inventors it is a challenge to enable each community member to ideate based on their strengths (some ideate best by drawing diagrams, others ideate best by creating verbal descriptions, yet others like to research first and then come up with ideas.)

CCSS: Patent Claim Collaboration Stream



Maven Team Review: Enables Maven Team route tasks to **Rapid Provisional Patent System**, creating new Patent Claim Streams, etc,

Patent Stream: Series of coNaboration challenges that end up as the raw material (background, claims, diagrams, etc) for one patent.

Sprint: Challenges are run at a specific tempo and could be staggered.

CCSS: Crowd-sourced Claim Collaboration Module

- **Crowd-sourced Claim Collaboration Challenge Module**
  - Community **Claim Thread:** the original patent Claim or base idea or a community comment tied to that original idea.
  - Community **Claim SubThreading:**
    - A new **Claim Thread refinement** or improvement to the parent Claim Posting.
    - **Claim Thread Busting** to prove the claim is not Novel complete with references.
  - Community **Claim SuperThreading**
    - Grouping a 2 or more existing threads into a larger claim idea
  - Community **Claim Hybriding**
    - Cross between 2 or more existing threads into a new hybrid thread.
  - Community **Claim Voting:** the community votes to identify claims that they believe should be (claims, new patents, or pruned). Votes are visible to the Maven Team instantly but become visible to the members at the end of the challenge.
  - **Claim Supporting or Busting tool**
    - A tool that enables you to reference a specific claim and it automatically searches multiple IP and prior art DBs for prior art that might bust this claim.
    - This Claim Busting Tool would be located with the editing tool, so with one click, the community member can pull up all references that might bust a claim. (integration with IP.com, WPTS, and other Prior Art Databases)
  - **Convergence tool: tool to enable crowd or mavens to handle convergence of 2 or more threads**

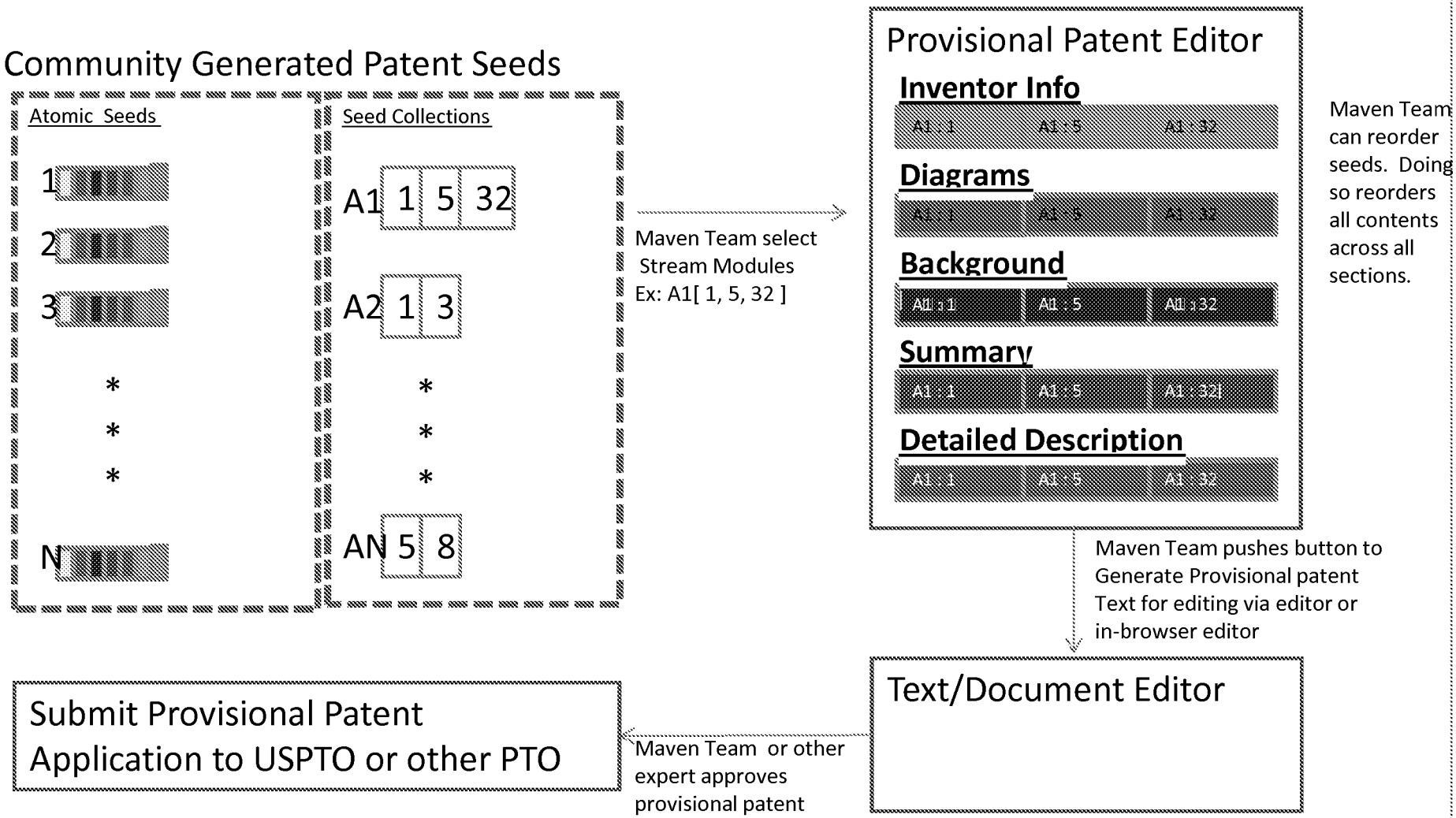
Instant Patent Filing Subsystem

Problem Statement: The Crowd-sourced Cluster Patent System will be creating a massive amount of community generated claims around a specific patent idea. Experts on the maven team (lawyers, original inventors, subject matter experts, etc) will need an easy mechanism to take the community generated claims bundled in patent seeds and be able to quickly and efficiently order and group the patent material into one or more patent documents, make any necessary edits, generate the provisional patent and submit the provisional patent.

Instant Patent Filing Subsystem: Solution

- System and Method to enable rapid provisional patent filing comprising
  - Provisional patent templates composed of the following sections
    - A COVer sheet Containing (http://www.uspto.gov/forms/ProvisionalSB.pdf)
      - the application as a provisional application for patent;
      - the name(s) of all inventors;
      - inventor residence (s);
      - title of the invention;
      - name and registration number of attorney or agent and docket number (if applicable);
      - correspondence address; and
      - any U.S. Government agency that has a property interest in the application.
    - Written description of the invention
      - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same, and shall set forth the best mode contemplated by the inventor of carrying out his invention.
    - Drawings associated with the invention
  - One or more community generated Patent Seeds prepopulating the above sections
  - A Provisional Patent editor
    - A mechanism to add, remove, and reorder Patent Seeds to the provisional application
    - A mechanism to convert the modules into a flattened editable text format.
  - A mechanism to file the provisional application online or print for filing by mail.

Instant Patent Filing Subsystem



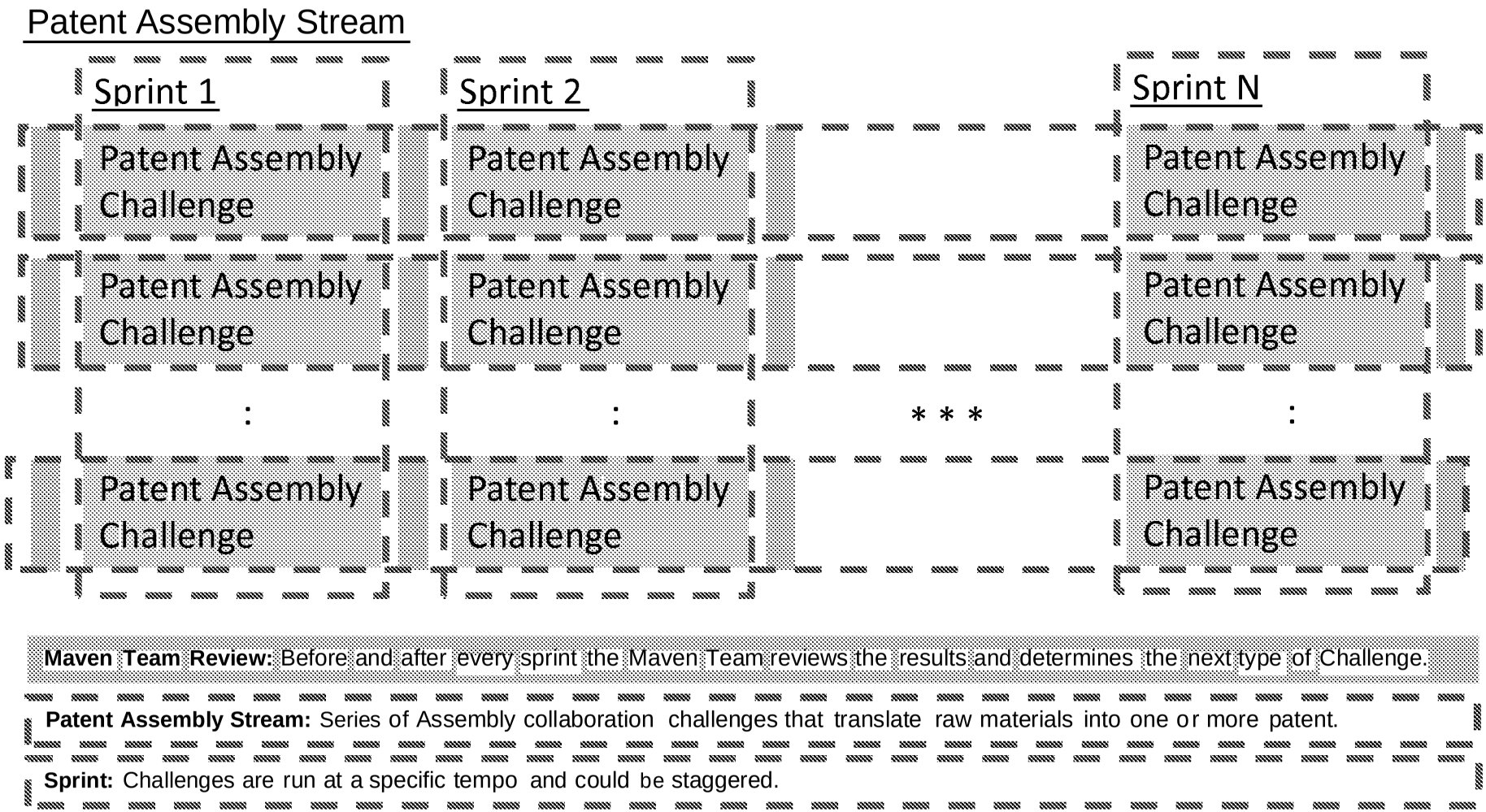
Crowd-sourced Assembly Collaboration Module

Problem Statement: The Crowd-sourced Cluster Patent System will be creating a massive amount of community generated claims around a specific patent idea which manifest in the form of a patent seed. We have a challenge to translate all of the patent seeds into legal language in a very short amount of time.

Problem Statement: Individuals in the community each have different strengths and should be able to work on the patent components that correspond to their strengths to complete the patent application

Problem Statement: It is a challenge to bring multiple Legal resources from different organizations into one platform so they can efficiently and democratically collaborate to create new patents.

CCSS: Patent Assembly Collaboration Stream



Crowd-sourced Assembly Collaboration Module

- **Crowd-sourced Assembly Collaboration Challenge Module**
  - System and method that structures the translation of the language of multiple domains of expertise into the language of one domain of expertise
  - System and Method that structures the translation of multiple domains of expertise into the language of the patent law domain
  - System and Method that allows community members to
    - Crowd-source the translation of incoming Patent Seed Text (claims, claim summaries, claim details, background info, etc)
      - **Evaluate an assembly challenge text**
      - **Translate an assembly challenge text**
      - **Discuss the merits of each translation**
      - **Vote for the best translations**
    - Evaluate diagrams in the challenge

Patent Assembly Collaboration Module

Patent Office Action

Patent Defense Collaboration Module

Patent Office Action

Maven Team System: Patent Defense Allocation Tool

- **Patent Defense Collaboration Challenge Allocation Tool-** this is a separate tool, probably in the Maven Team system, which enables a user to automatically create a set of Patent Defense Challenges based on a single Patent Office Challenge document regarding a specific patent. The system includes
- A system that scans in or takes an electronic version of a Patent Office Challenge letter and loads each point of contention into the tool as a separate Atomic Patent Defense Stream Modules.
- The system also enables the user to quickly pull up all Stream Modules associated with the specific patent filing in question.
- Enables the user to graphically group one or more Atomic Patent Defense Stream Modules together into an Aggregated Patent Defense Stream Module
- Enables the user to graphically map the Stream Modules that were used in the patent in question onto one or more Patent Defense Stream Modules.
- Enables a user to press a "create button" which will
  - Create a Patent Defense Challenge Module sprint for each Patent Defense Stream Modules with the Patent Office points of contention seeding the initial Patent Office Challenge Threads.
  - Identify the inventors for each of the Patent Defense Stream Modules
  - Invite each inventor to the corresponding Patent Defense Challenge

Patent Defense Collaboration System

Crowd-sourced Collaboration System

- **Patent Defense Collaboration System** - this is a Collaboration System Module that enables the inventors of a claim to participate to defend a patent against a Patent Office query.
  - **Patent Challenge Thread:** the original patent office challenge to a patent
  - **Patent Defense Thread:** One idea as to how one can defend against the patent office challenge.
  - **Patent Defense SubThreading:**
    - A new **Defense Thread refinement** or improvement to the parent Defense Posting.
    - **Defense Thread weakness** to identify holes I the defensive thread's argument with references.
  - **Patent Defense SuperThreading**
    - Grouping a 2 or more existing threads into a larger defensive idea
  - **Patent Defense Hybriding**
    - Cross between 2 or more existing threads into a new hybrid thread.
  - **Patent Defense Voting:** the community votes to identify defensive arguments that they believe should be used to defend a patent. Votes are visible to the participants immediately.
  - **Patent Defense Supporting or Busting tool**
    - A tool that enables you to reference a specific claim and it automatically searches multiple IP and prior art DBs for prior art that might bust this claim.
    - This Claim Busting Tool would be located with the editing tool, so with one click, the community member can pull up all references that might bust a claim. (integration with IP.com, WPTS, and other Prior Art Databases)

IP AntiTheft System

(Authentication, Authorization and Auditing System)

Problem: With any community based system, there is a threat of having a rogue community member who steals the community generated IP.

IP AntiTheft System

(Authentication, Authorization and Auditing System)

Solution: Based on the America Invents Act, the USPTO is now a "first to file" patent regime which normally would be in the favor of IP thieves; however, USPTO allows third-parties to perform Post-Grant petitions to invalidate patents.

To enable an effective post-grant petition and mitigate IP theft, we require:

1. Community Members sign a IP assignment document when joining the community platform in exchange for a username and password.
2. Community Members must assent to a reaffirmation of IP assignment when joining a specific challenge.
3. Community Member participation is tracked and permanently logged using an indelible logging mechanism.

All of this authentication, authorization, and audit data is used in conjunction with patent monitoring and alerting to notify us if we need to perform a post-grant petition to invalidate a patent. Essentially, the indelible logs provide proof of invention, we will challenge the person who stole IP to produce their proof of invention.

To further mitigate the window of opportunity for IP theft, we collect novel ideas, author provisional patents, and file provisional patents at the end of every sprint. This shrinks the window of opportunity for IP theft to the length of the sprint + the time it takes to file the provisional.

WO 2013/103996 PCT/US2013/020590

Automated Score Keeping System (ASKS)

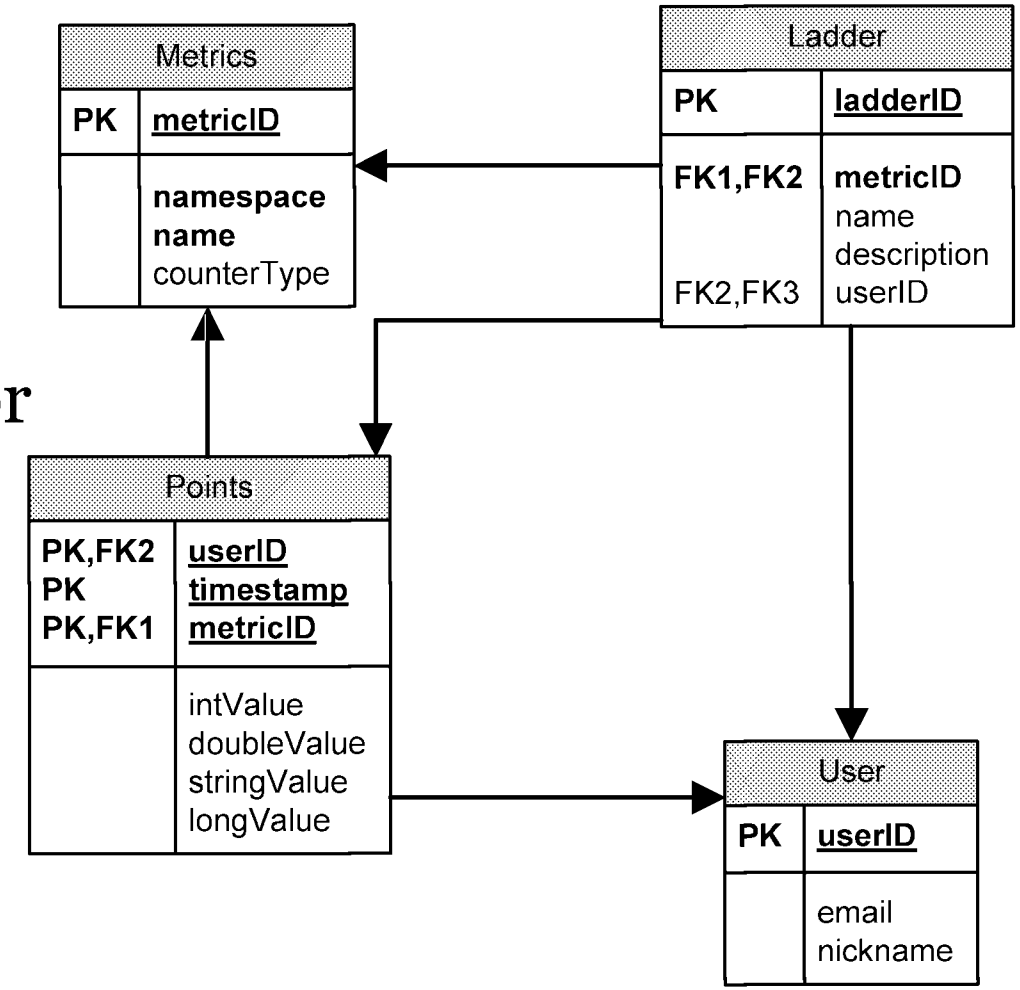
- **Problem Statement:** In order to keep Inventors motivated to come back and persevere to earn status, we need to be able to keep track of relative standings of inventors on a per measured attribute basis.

ASKS: Solution

- ASKS is an automated score keeping system that is composed of a database of ladders. The ASKS system comprises the following components:
  - **Metric** is a table that defines a metric type that is gathered in the Points table.
  - **Points** is a table that keeps track of all points earned throughout the system for a particular metric for a particular user.
  - **Ladder** is a table that links the Metric, Points and Users tables so a periodic Ladder can be generated.
  - **LadderPageGenerator** is a program that periodically runs over all Ladder types and generates an HTML page that summarizes the state of the ladder for a period of time. The page is stored into a structured page hierarchy that enables historical viewing of historical HTML pages of ladders for a given year, month, week, day and hour.
  - **The Ladder Page** hierarchy is periodically checked into a version control system for purposes of disaster recovery and replication.
  - A **PointProbe** is a piece of code that can be used to gather a specific type of point throughout the system and can be added to the system using Aspect Oriented Programming or directly implemented to gather data into the code of the system.

ASKS: Data Model

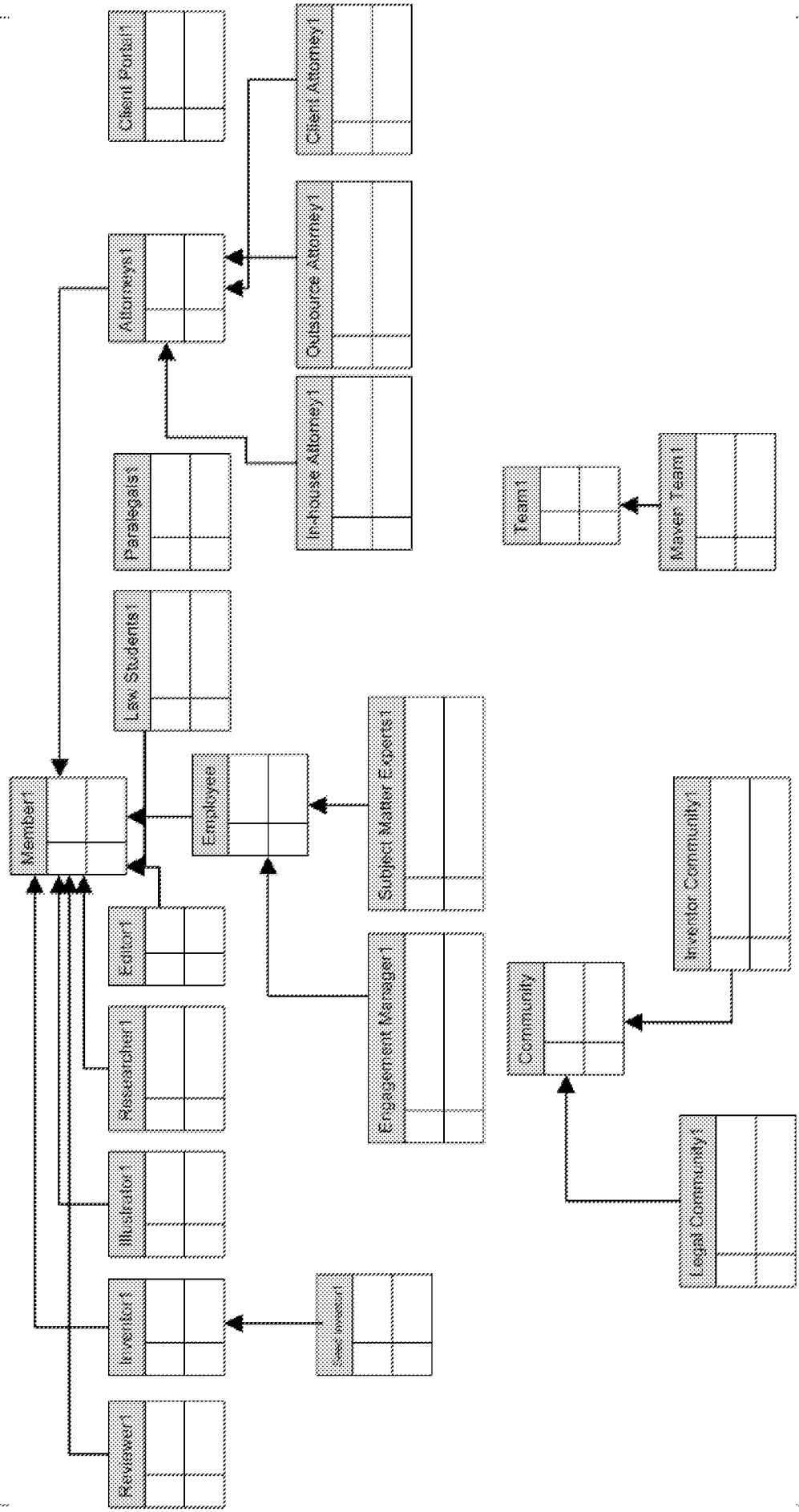
- Tables
  - Metric
  - Ladder
  - Points
- LadderPageGenerator
- PointProbe
- Ladder Pages



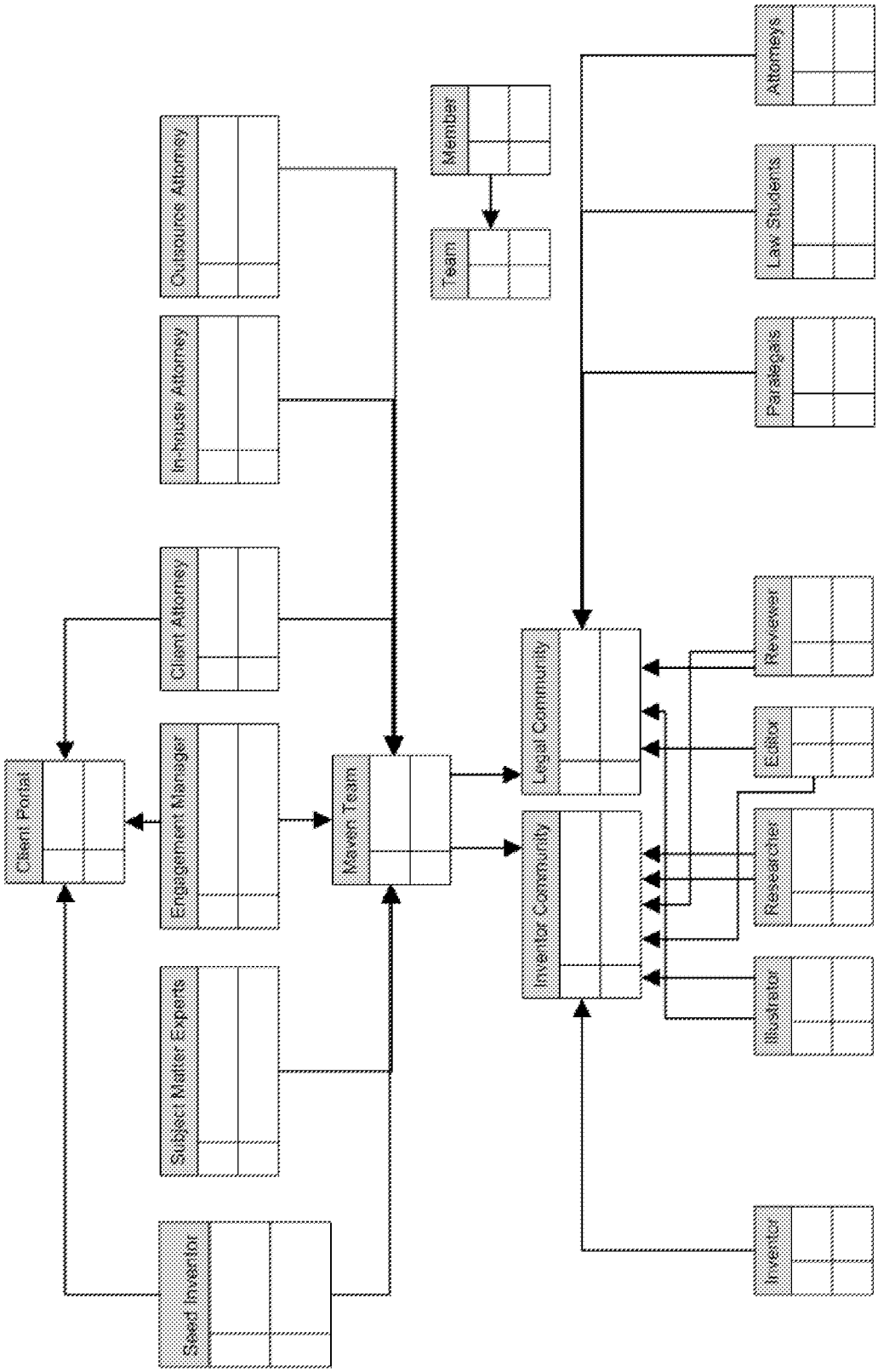
Inventor Profile System: Problem Statements

- **Problem Statement:** It is a challenge to objectively identify an inventors effectiveness.
- **Problem Statement:** Based on the 90, 9, 1 rule that states 90% members are the audience, 9% are editors and 1% are creators, the community needs a way to clearly identify who falls within each category with regard to IP creation.
- **Problem Statement:** It is a challenge to retain inventors who seek to socialize with other inventors and seek peer recognition. By delineating their profile, each inventor will strive to enhance their status among inventor peers.
- **Problem Statement:** Companies seek to find inventor talent and have difficulty identifying "talk" from "walk".

IPS: Hierarchy Relationships



IPS: Entity Relationships



IPS: Metrics Gathered: Overview

- The Metric system will gather the following data about the community for their profile.

- **Inventor:**
  - **Patents**
  - **Claims**
  - **Accuracy**
- **Popularity**
- **#profile views**
- **#idea votes**
- **#contribution promotes**
- **Citizenship**
  - **Challenges**
  - **Participation**
  - **Voting**
    - **claim**
    - **patent**
    - **prune**
  - **Guardian**
- **Leadership**
  - **Membership**
  - **Quality**
- **Account**
  - **Prize Money**
  - **#Prizes**
  - **Average Prize**
- **Maven Team**
  - **Throughput**
- **Team**
  - **Membership**
  - #posts
  - **#claims**
  - **# patents**

Per Process Metric totals

- Popularity metrics across the board.
  - **Popularity**
  - **#profile views**
  - **#ideapromotes**
  - **#contribution promotes**

IPS: Inventor Metrics Gathered

- Inventor Metrics will include:

- Patent
  - #Ideated
  - #Assembled
  - #Filed
  - #Defended
  - #Granted
  - #Sold
- Claims
  - #Ideated
  - #Assembled
  - #Filed
  - #Defended
  - #Granted
  - #Sold
- Accuracy
  - #Ideated
  - #Assembled
  - #Filed
  - #Defended
  - #Granted
  - #Sold

IPS: Citizenship Metrics Gathered

- Citizenship Metrics gathered include:
  - Challenges
    - #joined
  - Participation
    - #posts
    - #votes
    - #flagging
  - Voting
    - patentable
    - claimable
    - prune
  - **Guardian**
    - **#spam**
    - **#inappropriate**
  - Mentor
    - #training
    - #guidance
    - #advice

IPS: Leadership Metrics Gathered

- The Leadership Metrics gathered will include:

- **Membership**
- **Quality**
- **Volume**

IPS: MMaavveenn MMeettrriiccss GGaatthheerreedd

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- **Throughput**
  - Average **Maven Processing Time / IdeatioiiSprint**
  - **Patents Filed / Sprint**
  - **Claims Filed / Sprint**
  - **Average Maven Processing Time / AssemblySprint**
  - **Patents Assembled / Sprint**
  - **Claims Assembled / Sprint**
  - **Patents Questioned Average by Patent Office**
  - **Claims Questioned Average by Patent Office**
  - **Average Maven Processing Time / Defense Sprint**
  - **Patents Defended / Sprint**
  - **Claims Defended / Sprint**
  - **Patents Granted Average**
  - **Claims Granted Average**

IPS: Account Metrics Gathered

- The Metric system will gather the following data about the community for their profile.
- **Prize Moneys**
  - **Claim**
  - **Assembly**
  - **Strategy**
  - **Defense**
  - **Grant**
- **#Prizes**
  - **#Claim**
  - **#Assembly**
  - **#Strategy**
  - **#Defense**
  - **#Visibility**
  - **#Grant**

IPS: Team Metrics Gathered

- The Metric system will gather the following data about the community for their profile.
  - **Membership**
    - **#members**
  - **#Posts**
    - **Ideation**
    - **Assembly**
    - **Defense**
  - **#Claims**
    - **Ideated**
    - **Assembled**
    - **Defended**
    - **Granted**
  - **#Patents**
    - **Ideated**
    - **Assembled**
    - **Defended**
    - **Granted**

IPS: Incentives for Participants

- Original Seed Patent Inventor
  - All benefits of a Community Inventor
  - Maven Team Profile points
- Community Inventor
  - Inventor Profile points
  - Community Leadership points
  - Community Status among inventors
  - Enrich career opportunities
  - Prize Money
  - Credited on Patents
- Maven Team
  - Maven Profile points
  - Community Leadership points
- Community Leader
  - Community Leadership points
  - Community Status as a leader
  - Followers

Networked System

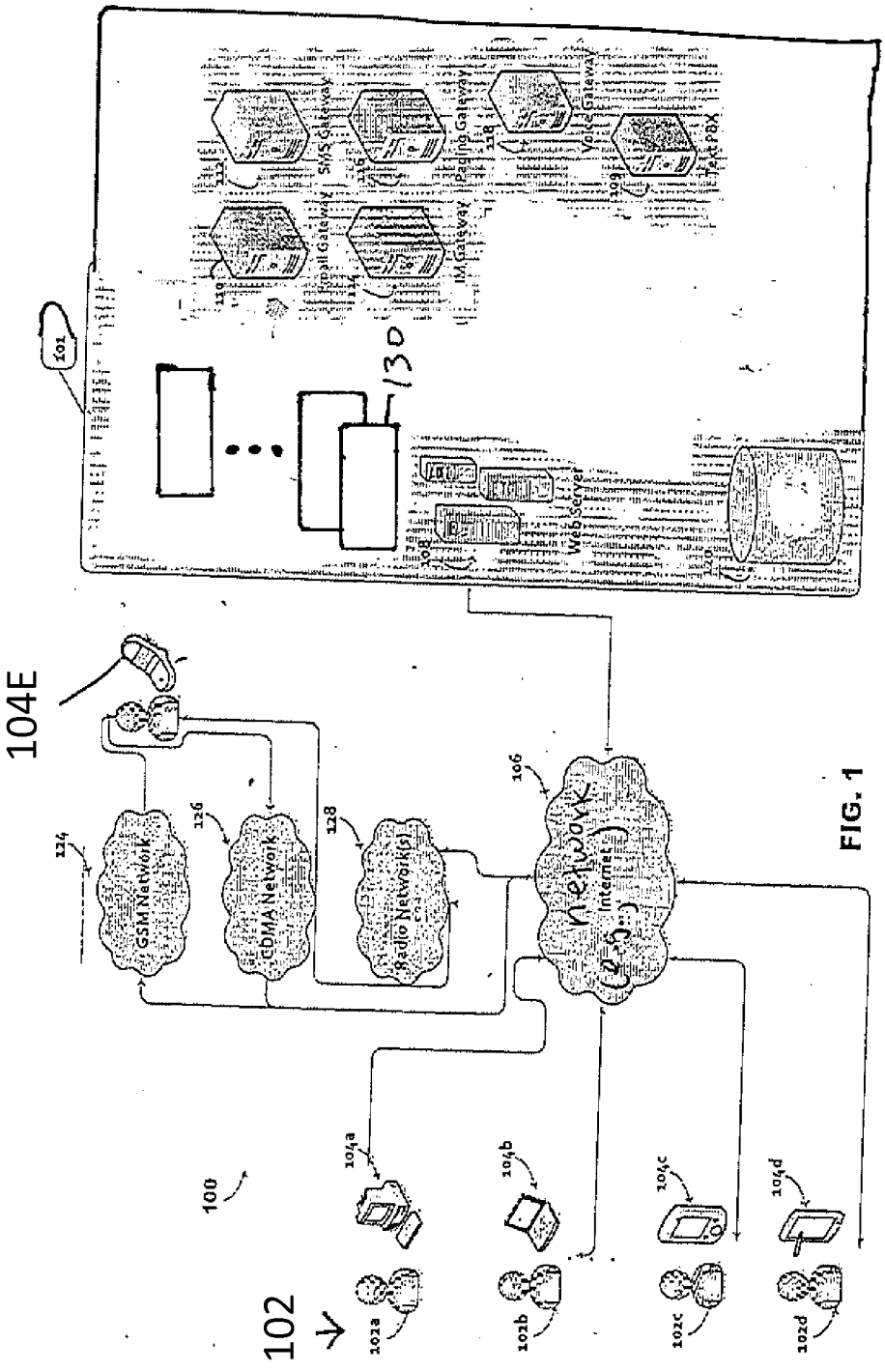
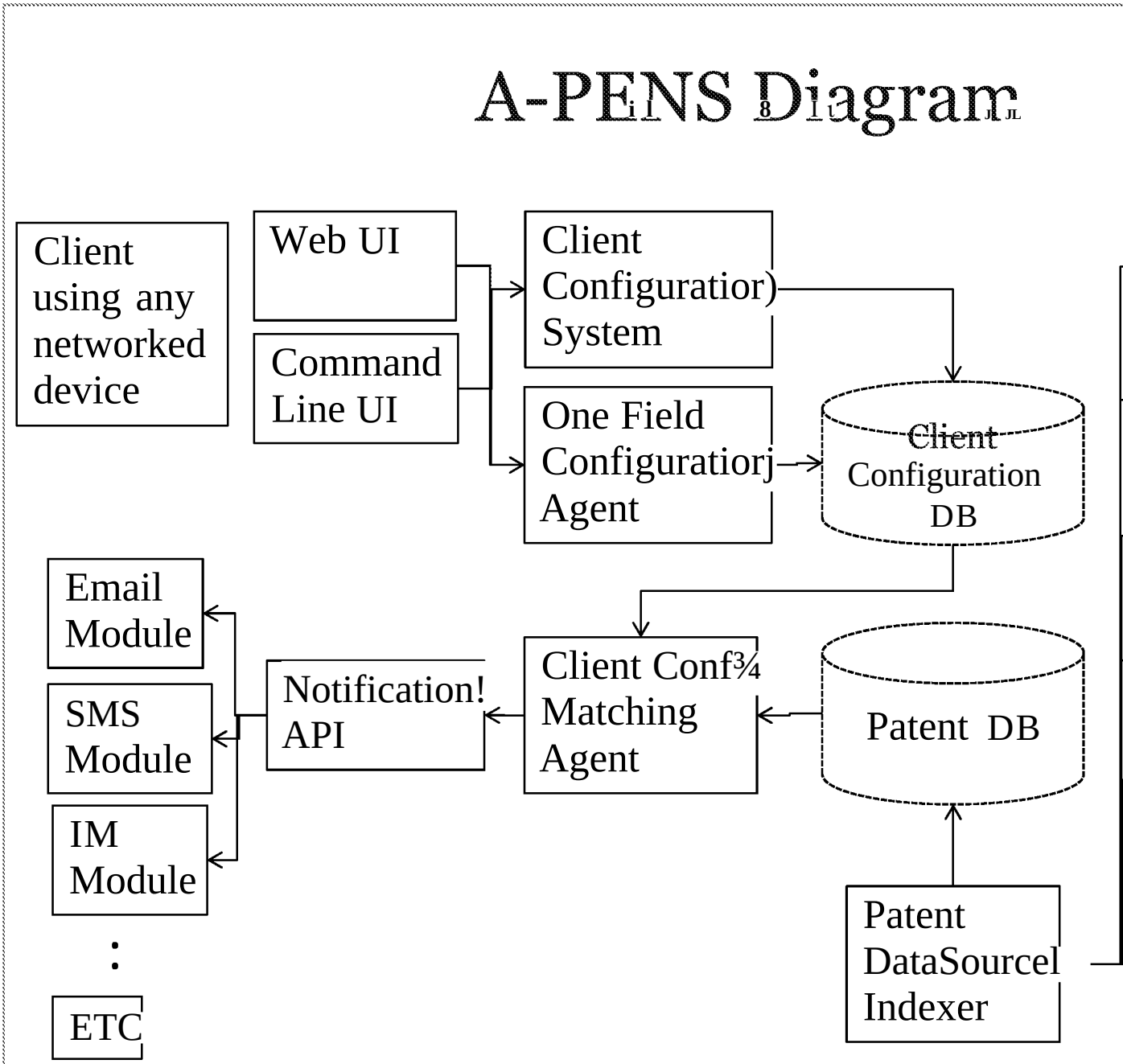


FIG. 1


A-PENS Diagram
Client using any networked device
Web UI
Command Line UI
Client Configuratior) System
One Field Configuratiorj Agent
Client Configuration DB
Email Module
SMS Module
IM Module
:
ETC
Notification! API
Client Conf¾ Matching Agent
Patent DB
Patent DataSourcel Indexer

Configuration Module: User Interface

- The Configuration Module Web Interface or graphical user Interface enables the user to click and create the rulesets and add it to their client profile for use in patent matching.

Configuration Module

- The Configuration Module enables a user to
  - Use a command line interface or a web interface to configure one or more rulesets that include one or more Rule.
  - A Ruleset can attach to one or more DataSources
  - A Rule consists of
    - One or more patterns
    - One or more Notification event stage
    - One or more Notification type
    - One or more recipients
  - <ruleset datasource=all>
    <rule>
    <pattern> ... </pattern>
    <pattern> ... </pattern>
    <stage> ... </stage>
    <stage> ... </stage>
    <notification-type> ... </notification-type>
    <notification-type> ... </notification-type>
    <recipients> alias </recipients>
    <rule>

BackEnd DataSource Indexer

- The Backend DataSource indexer is a developer API that enables developers to write code for new DataSources
  - The Configuration Module will have an API that enables new DataSources to be implemented.
  - Initially provided DataSources will include:
    - PeeraPatent - connects to Peer2Patent and indexes all patents available.
    - Patents.google.com - connects to patents.google.com and indexes all patents available
    - USPTO (EPS, PPH, etc) - connects to USPTO and indexes all patent apps and patents available
    - EPO - connects to the European Patent Office and indexes all patent apps and patents available.
    - Each country's Patent Office that is available online.
    - ArticleOne - connects to ArticleOne and indexes all patent busting contests available.
    - IPXI - connects to IPXI and indexes all patents available for licensing
    - OceanTomo - connects to OceanTomo and identifies all Patents available
    - IPZone - connects to IPZone and identifies all Patents available
- DataSource access is optimized by prefetching and indexing
- DataSources are optimized by indexing and referencing to the original document
  - ***Indexes will be in a canonical indexformat and take in multiple formats including:***
    - ***International Common and Element (ICE) Red Bookfor Patent Grant Data/XML and Patent Application Data/XML***
    - ***HTML***
    - ***Text***
    - ***PDF***
    - ***Etc.***

Configuration Module: Rule Patterns

- A Pattern in a Ruleset is an API that returns true or false and can be used to compose larger logical expressions.

http://www.uspto.gov/web/offices/ac/ido/oeip/sgml/st32/redbook/rb200 4 /rb200 4 .html

- For example, if EuroNext wants to keep track of all IBM patents granted that refer to EuroNext patents a simple rule can be assembled like this.

```
<rule>
    <pattern >
        <AND>
        <assignee >IBM </assignee >
        <classification-level >A</classification-level >
        <citation .assignee >EuroNext </citation .assignee >
        </AND>
    </pattern >
            :
            :
</rule>
```

Configuration Module: Rule Event Stages

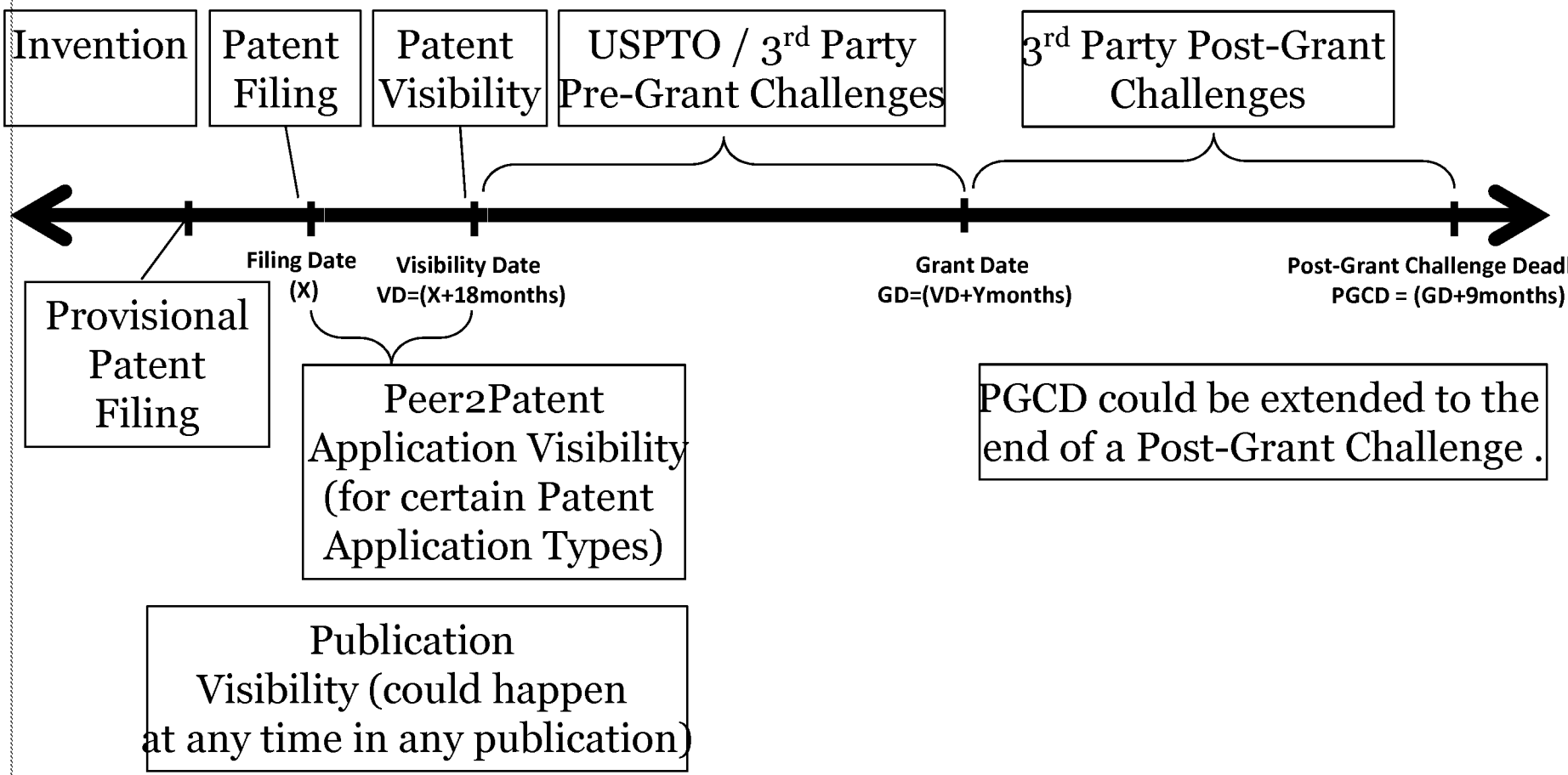
- Rule event stages is an API that allows a developer to develop new Patent Stages that can be searched and indexed.
- In a rule, a Patent Stage pattern might look like this:

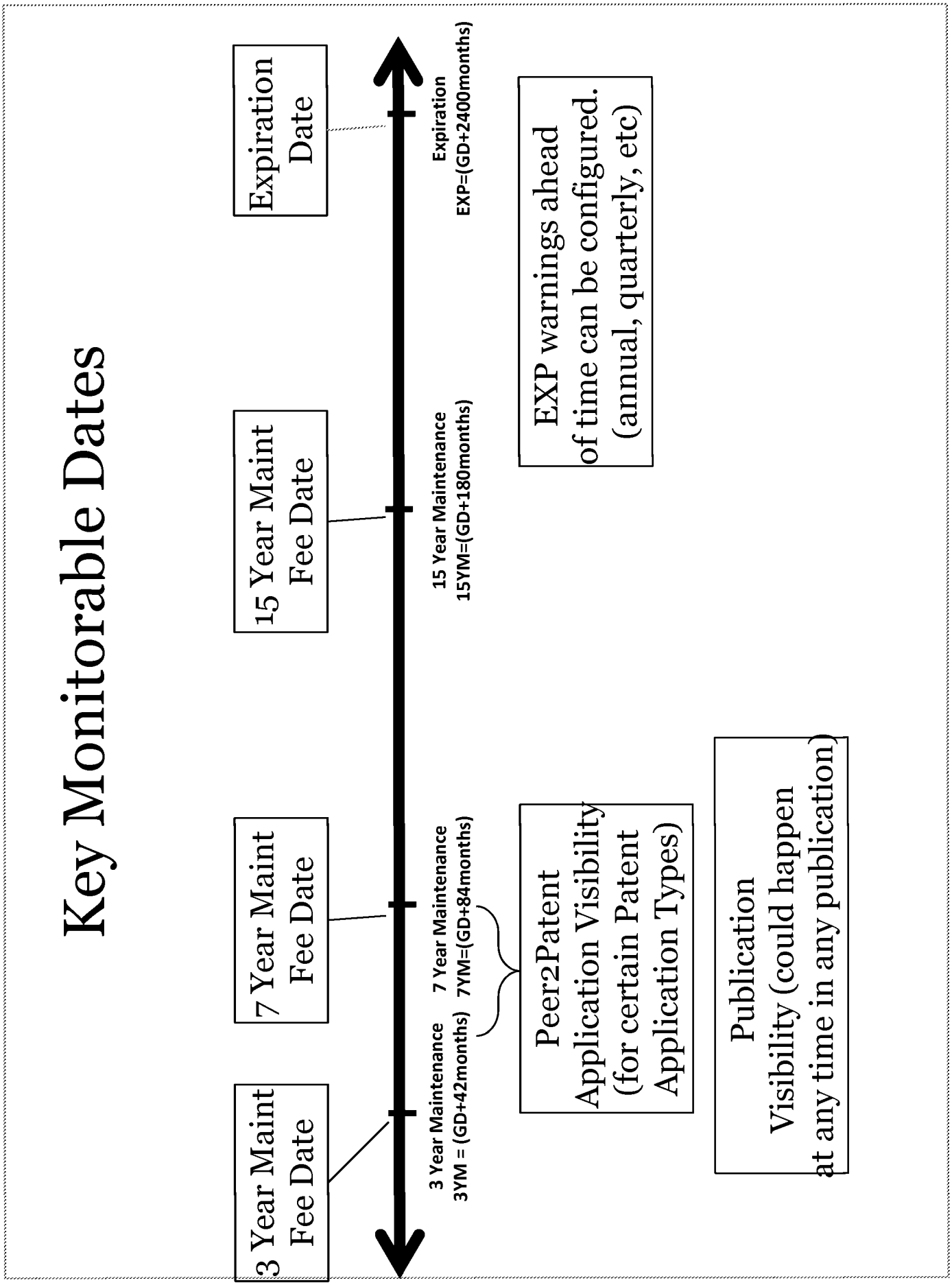
```
<rule>
    :
   <stage>peer2patent-visible </stage >
   <stage>pre-grant-visible< /stage >
   <stage>post-grant </stage>
   <stage>3-year-renewal</stage >
    :
</rule>
```

Configuration Module

- The Configuration Module enables a user to
  - Use a command line interface or a web interface to configure one or more rules that include
    - One or more Patent DataSources
    - One or more patterns
    - One or more Notification event stage
    - One or more Notification type
    - One or more recipients

Key Monitorable Dates




Key Monitorable Dates
3 Year Maint Fee Date
7 Year Maint Fee Date
15 Year Maint Fee Date
Expiration Date
3 Year Maintenance 3YM = (GD+42months)
7 Year Maintenance 7YM=(GD+84months)
15 Year Maintenance 15YM=(GD+180months)
Expiration EXP=(GD+2400months)
EXP warnings ahead of time can be configured. (annual, quarterly, etc)
Peer2Patent Application Visibility (for certain Patent Application Types)
Publication Visibility (could happen at any time in any publication)

Patent Event Notification System : One Field Configuration Agent

- The simplest method of using this system will be for a client to enter their company name, and the system will automatically generate the notification configuration by:
  - Automatically finding all patents currently owned by the company named
  - Automatically Identify key industries and tech areas that the company might be interested in.
  - Automatically find any patent applications or granted patents that reference the company's patents.
  - Notify the company when patent applications if interest or patent grants of interest reach a key milestone.

Patent Event Notification System : Other functions

- Once a client has been notified, the system will enable them to join a virtual network of others who have also been notified.
- If the client chooses to challenge the patent, then they can click one button to have an editable petition template appear. When the form is filled out, the system will automatically mail the petition to the appropriate government office with the appropriate payment. The payment will be drawn from an client account.
- In the exceptions where the automatic match doesn't work, the system will feed the exception to a crowd source platform to validate the notification criteria for claims

Patent Event Notification System : Post-parte petition

- A client can choose to submit their own custom petition.
- A client can view analytics regarding patents being challenged.
- A client can view analytics regarding claim trends of granted patents.

Patent Event Notification System : Post-parte petition

- A client that chooses to file a petition can invite others to join.
  - Others who have been notified
  - Others whom the client knows
- A client that chooses to file a petition can indicate that they are filing a petition to the virtual community.
- The auto petition submission code would verify:
  - Each claim in question is mentioned in the petition

Crowd-sourced Challenge Tool

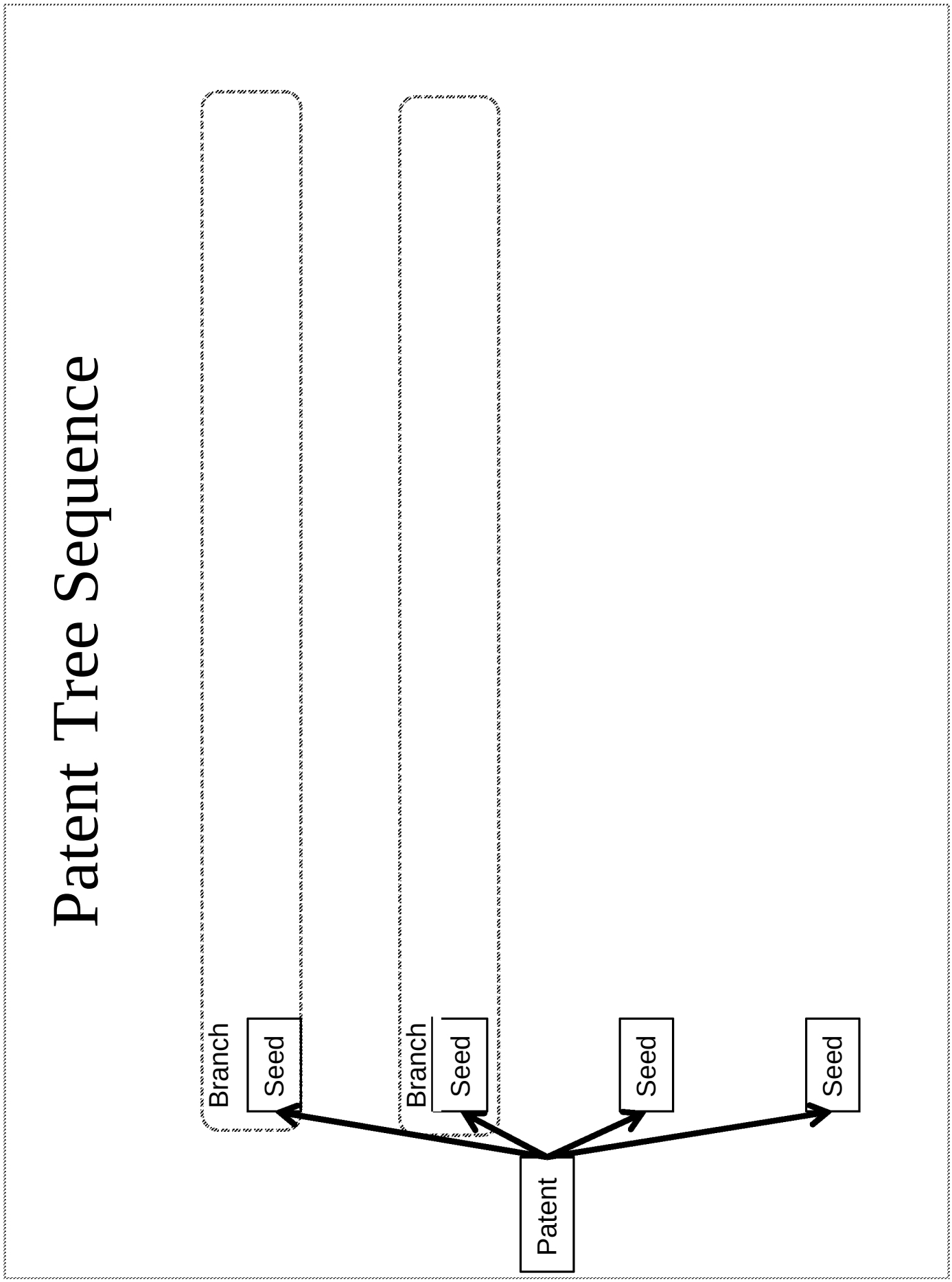
- **Problem Statement:** It is difficult for an expert or a team of experts to guide a crowd to focus their energy to performing a specific task.
- **Problem Statement:** It is difficult to enable a crowd to collaborate in an additive way so their ideas build upon each other.

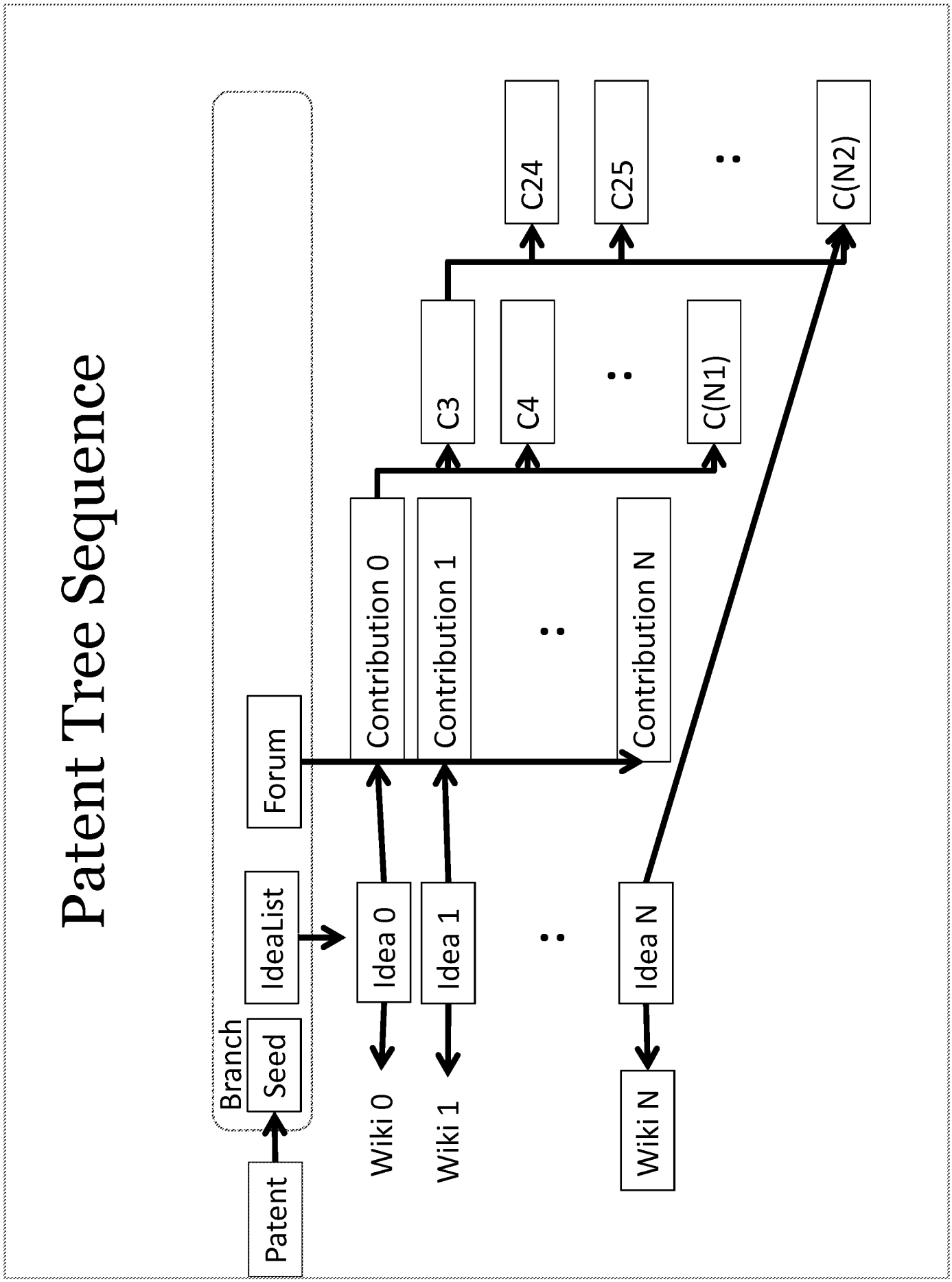
Process Walkthrough Use Case Example

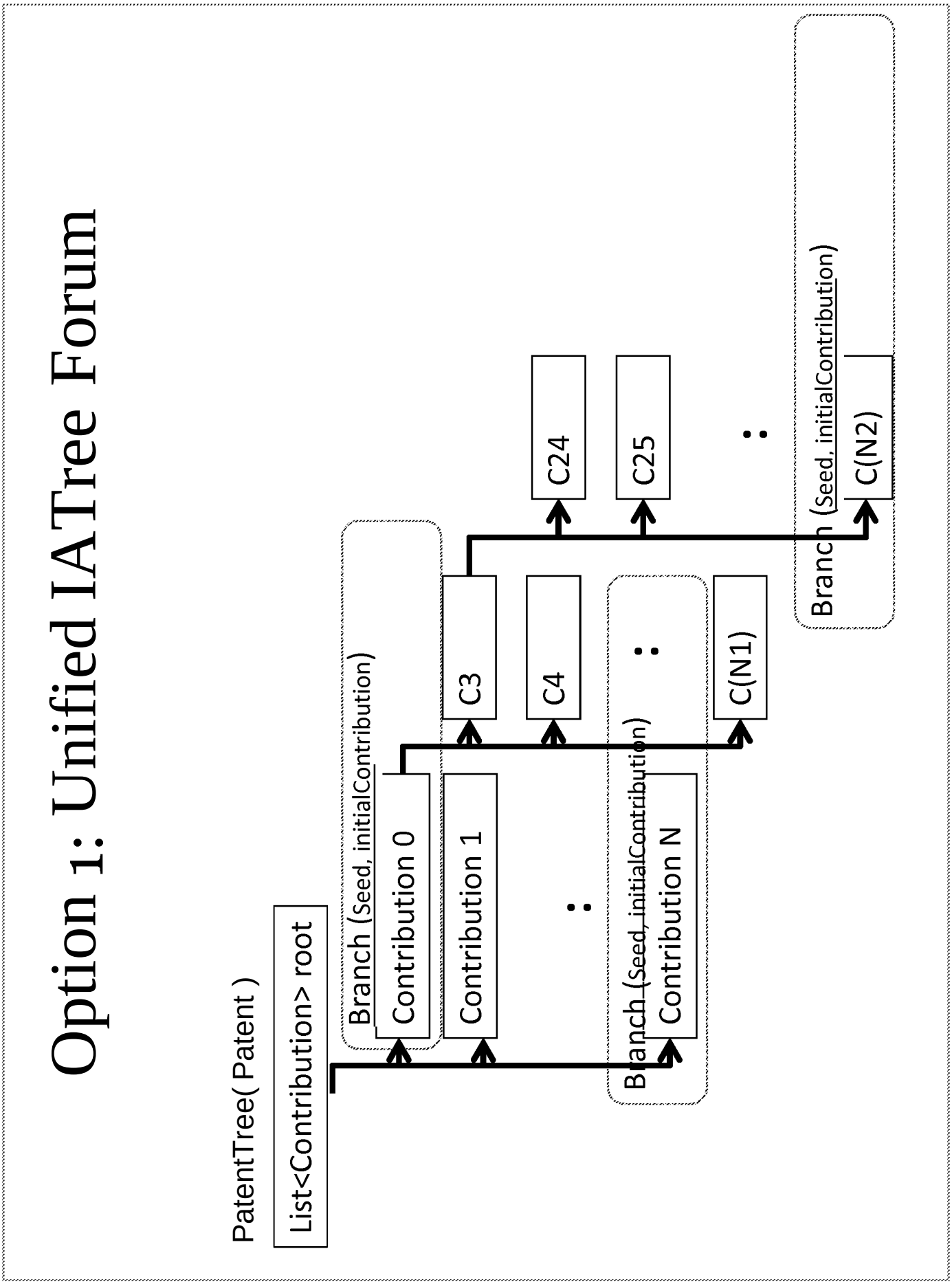
- InProTopia engages IBM to Cluster Patent an IBM Patent that IBM is about to go to market with.
- IBM assigns resources to work with InProTopia
  - Patent Attorney who will provide legal oversight
  - Patents that need to be clustered
  - Original inventors
- IBM Patent Attorney and IBM Inventors sign onto the Cluster Patent Platform as Mavens.

Patent Tree Implementation Options

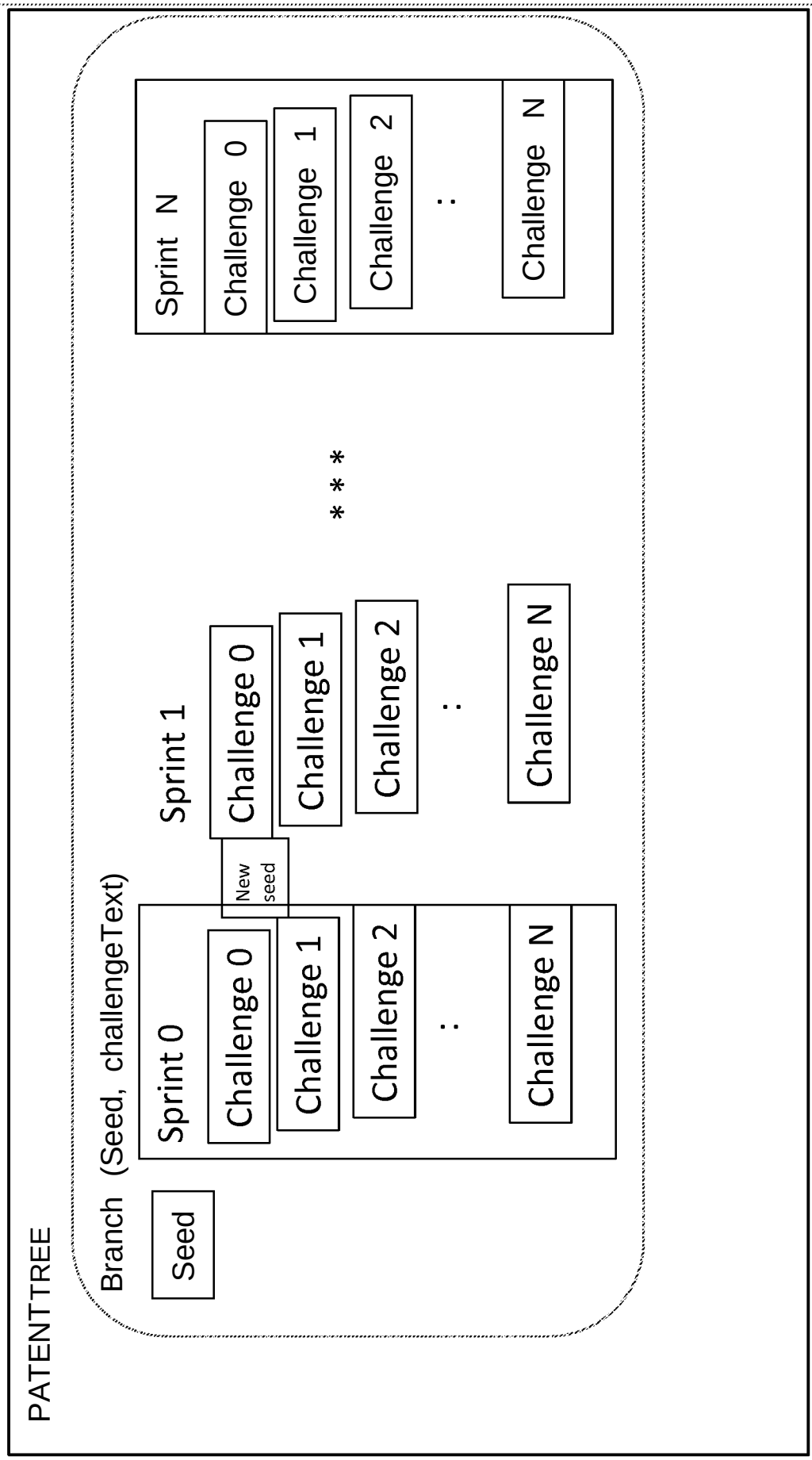
- Key Design Choices
  - Where do we root the forums?
    - Option 1: root the forums in the IA Tree (ex. Patent Tree)
    - Option 2: root the forums in each IA Branch (ex. Patent Branch)
    - Option 3: root the forums in each IA Challenge (ex. Patent Challenge)
    - Option 4: root the forums in each IA Idea (Patent Challenge Idea)
  - Where do we need to optimize for the Maven Team?
  - Where do we need to optimize for the Community?

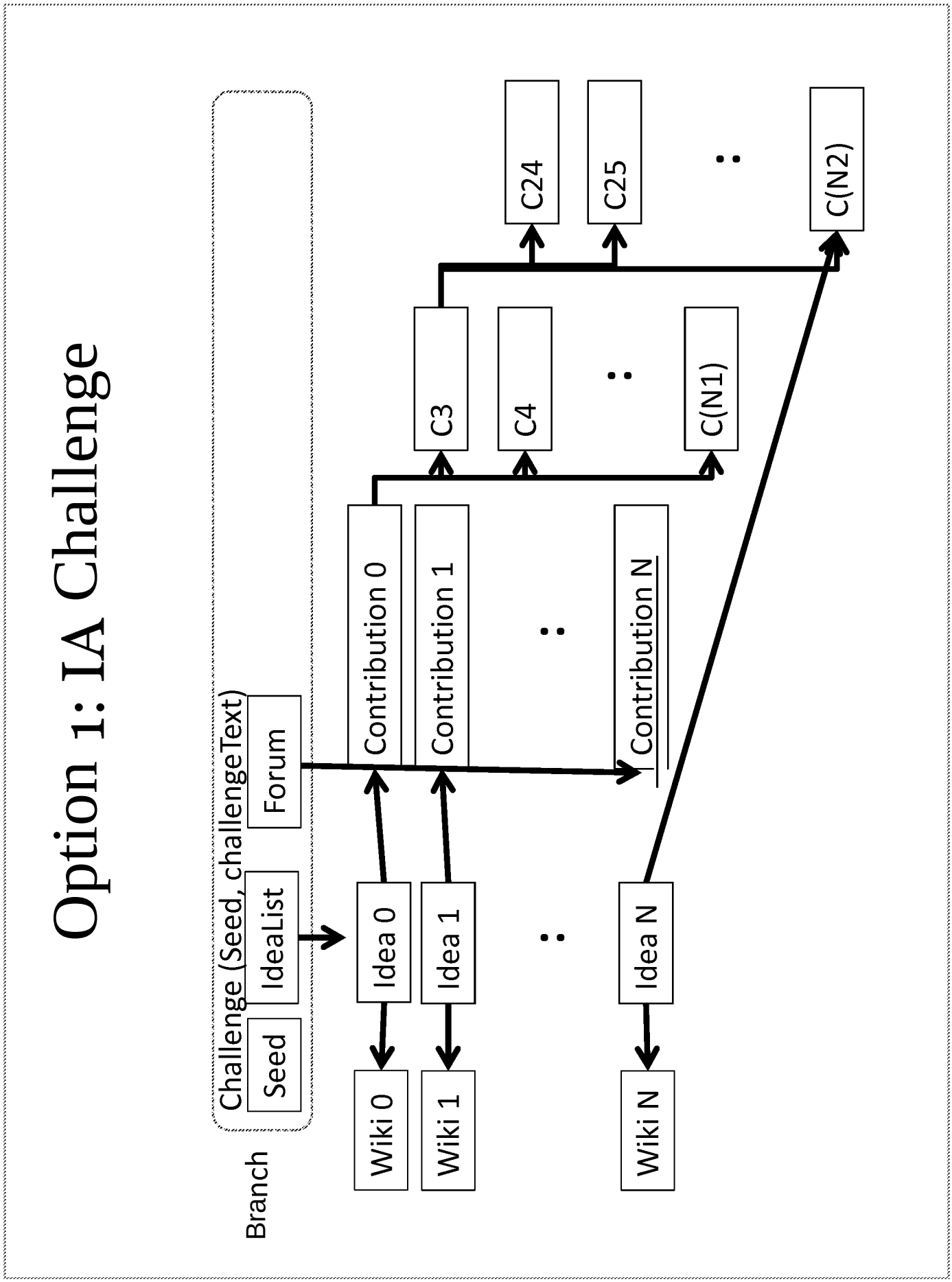

Patent Tree Sequence
Patent
Branch
Seed
Branch
Seed
Seed
Seed


Patent Tree Sequence
Patent
Branch
Seed
IdeaList
Forum
Idea 0
Idea 1
Idea N
Wiki 0
Wiki 1
Wiki N
Contribution 0
Contribution 1
Contribution N
C3
C4
C(N1)
C24
C25
C(N2)


Option 1: Unified IATree Forum
PatentTree(Patent)
List<Contribution> root
Branch (Seed, initialContribution)
Contribution 0
Contribution 1
:
Branch (Seed, initialContribution)
Contribution N
C3
C4
:
C(N1)
C24
C25
:
Branch (Seed, initialContribution)
C(N2)

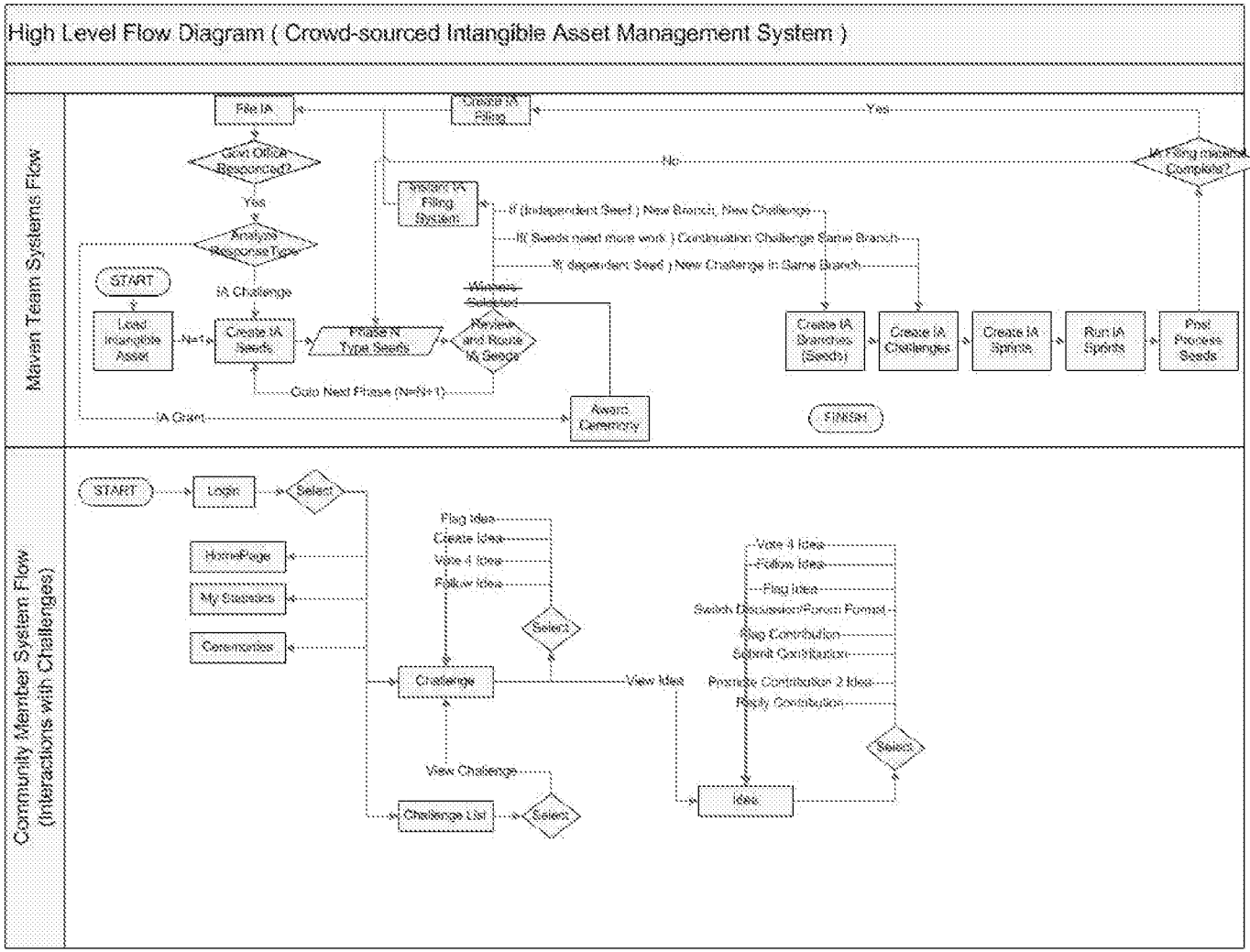
OPTION 1: Branch



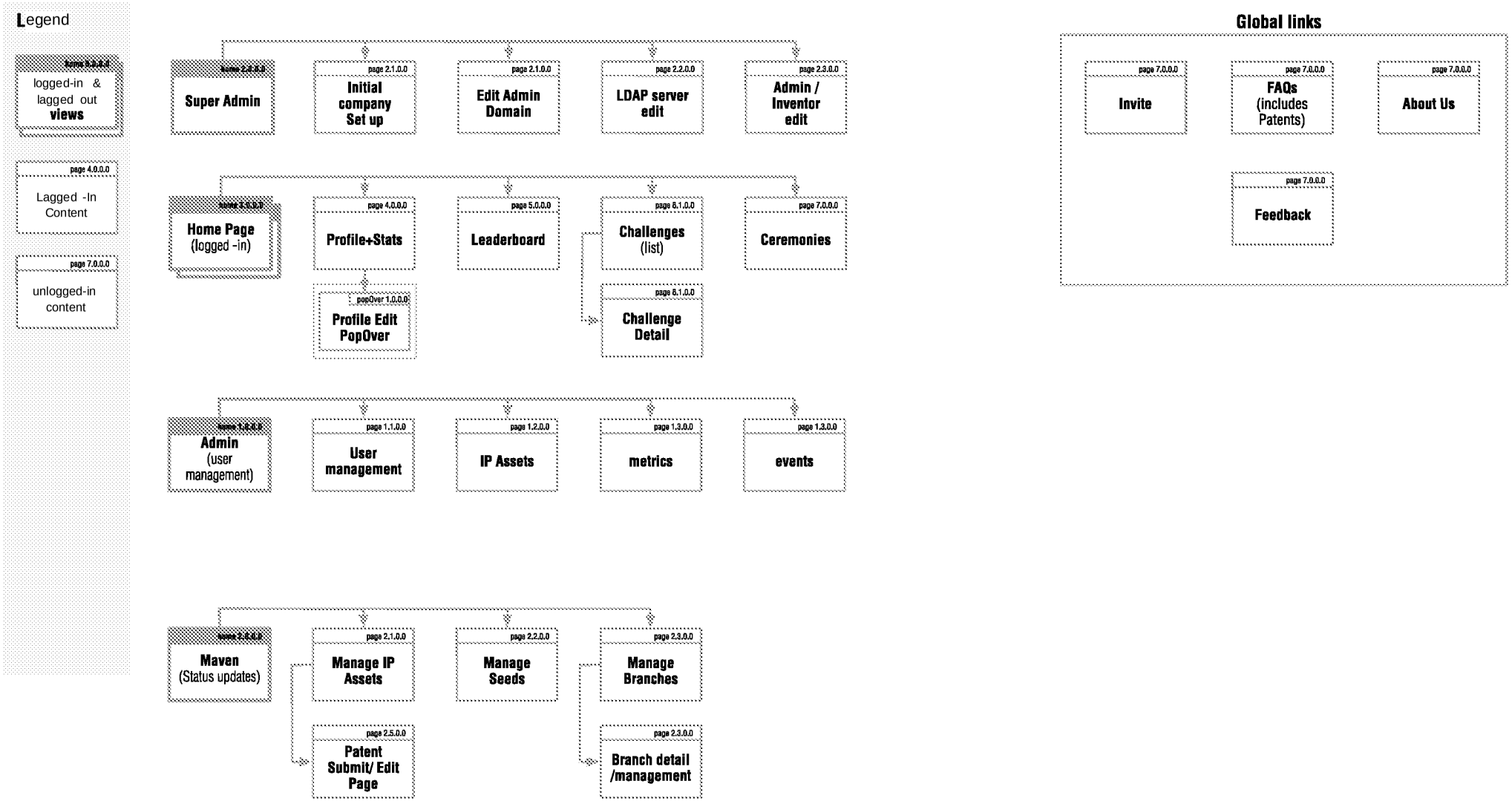

Option 1: IA Challenge
Challenge (Seed, challengeText)
Seed
IdeaList
Forum
Branch
Idea 0
Idea 1
Idea N
Wiki 0
Wiki 1
Wiki N
Contribution 0
Contribution 1
Contribution N
C3
C4
C(N1)
C24
C25
C(N2)

High Level System Flow Diagram

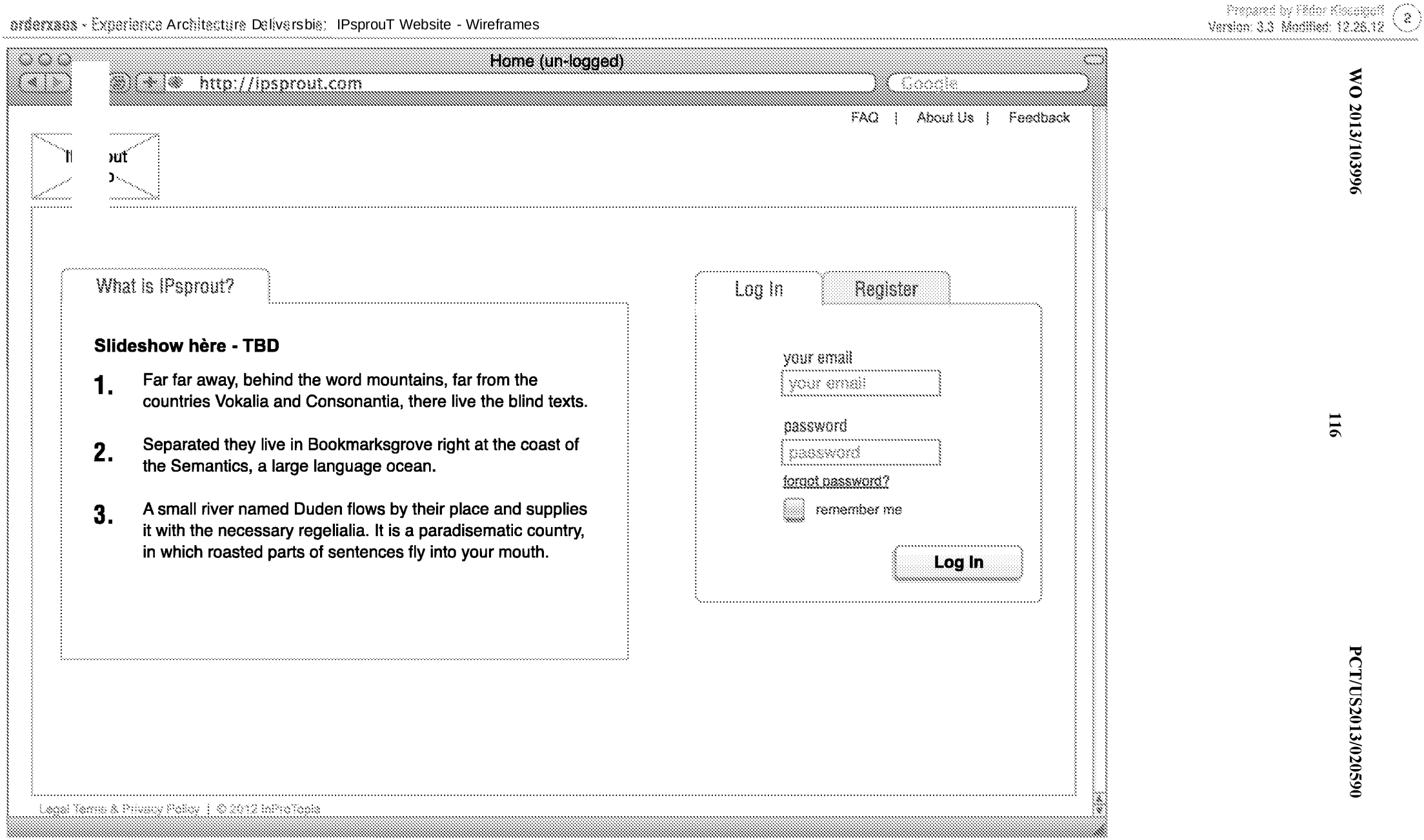
- Key System Workflows
  - Maven Team
  - Community Member



Sitemap



WO 2013/103996 PCT/US2013/020590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Slideshow hère - TBD
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2. Separated they live in Bookmarksgrove right at the coast of the Semantics, a large language ocean.
3. A small river named Duden flows by their place and supplies it with the necessary regelialia. It is a paradisematic country, in which roasted parts of sentences fly into your mouth.
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Register
your email
your email
password
password
forgot password?
remember me
Log In
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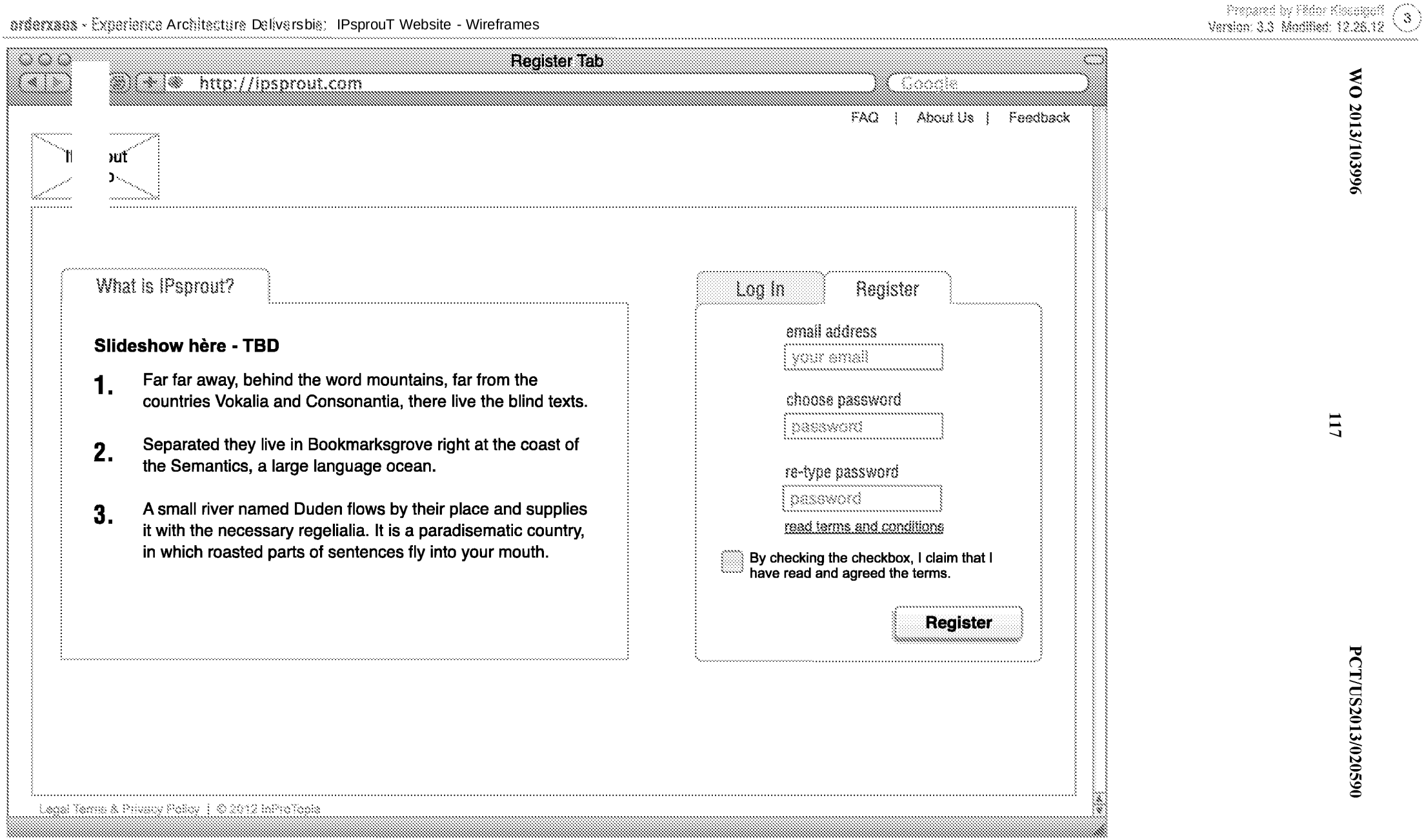
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Log In
Register
email address
your email
choose password
password
re-type password
password
read terms and conditions
By checking the checkbox, I claim that I have read and agreed the terms.
Register
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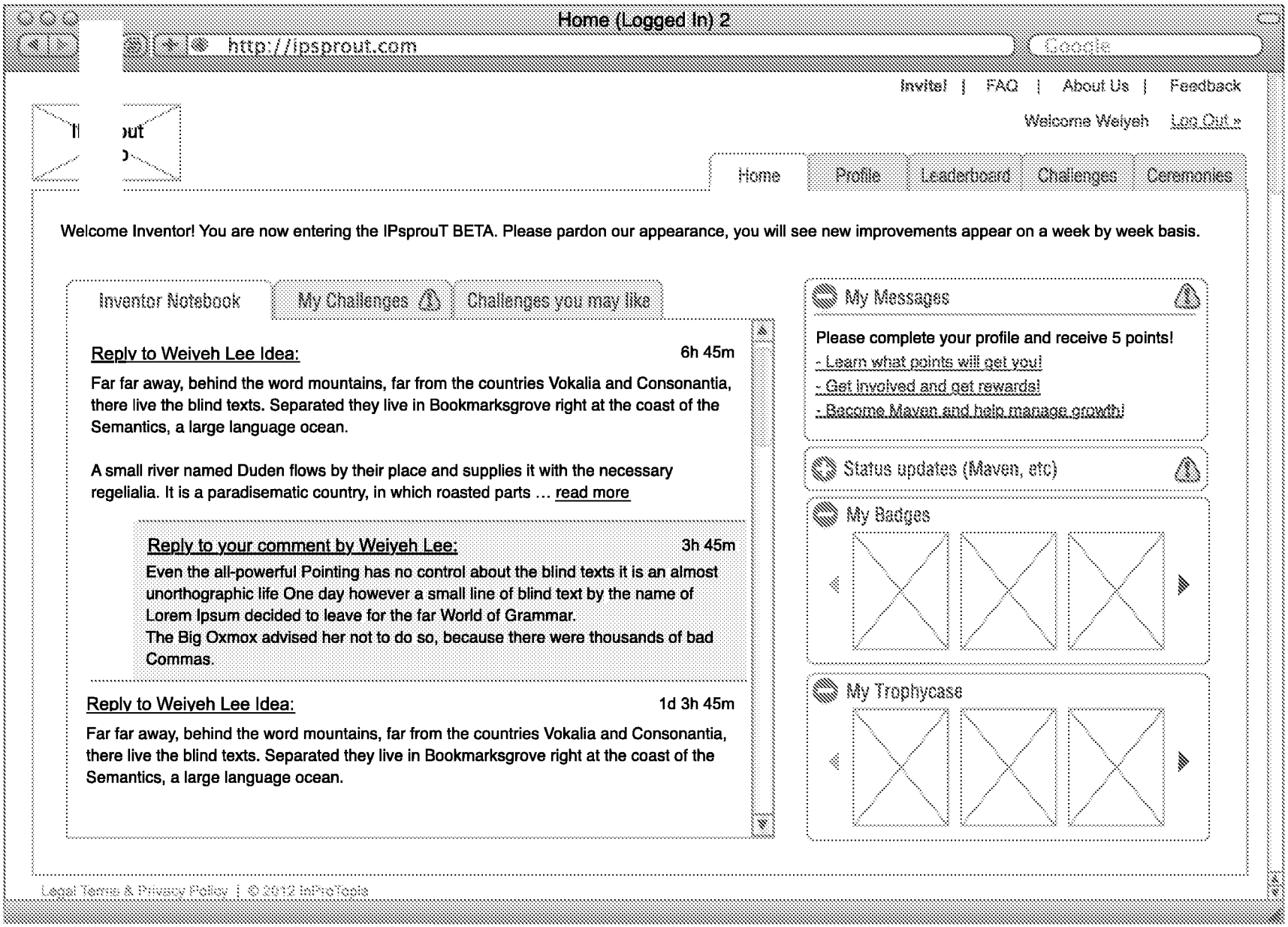
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Google
Invite! | FAQ | About Us | Feedback
Welcome Weiyeh Log Out »
Home
Profile
Leaderboard
Challenges
Ceremonies
Welcome Inventor! You are now entering the IPsprouT BETA. Please pardon our appearance, you will see new improvements appear on a week by week basis.
Inventor Notebook
My Challenges
Challenges you may like
Reply to Weiyeh Lee Idea:
6h 45m
Far far away, behind the word mountains, far from the countries Vokalia and Consonantia, there live the blind texts. Separated they live in Bookmarksgrove right at the coast of the Semantics, a large language ocean.
A small river named Duden flows by their place and supplies it with the necessary regelialia. It is a paradisematic country, in which roasted parts … read more
Reply to your comment by Weiyeh Lee:
3h 45m
Even the all-powerful Pointing has no control about the blind texts it is an almost unorthographic life One day however a small line of blind text by the name of Lorem Ipsum decided to leave for the far World of Grammar.
The Big Oxmox advised her not to do so, because there were thousands of bad Commas.
Reply to Weiyeh Lee Idea:
1d 3h 45m
Far far away, behind the word mountains, far from the countries Vokalia and Consonantia, there live the blind texts. Separated they live in Bookmarksgrove right at the coast of the Semantics, a large language ocean.
My Messages
Please complete your profile and receive 5 points!
- Learn what points will get you!
- Get involved and get rewards!
- Become Maven and help manage growth!
Status updates (Maven, etc)
My Badges
My Trophycase
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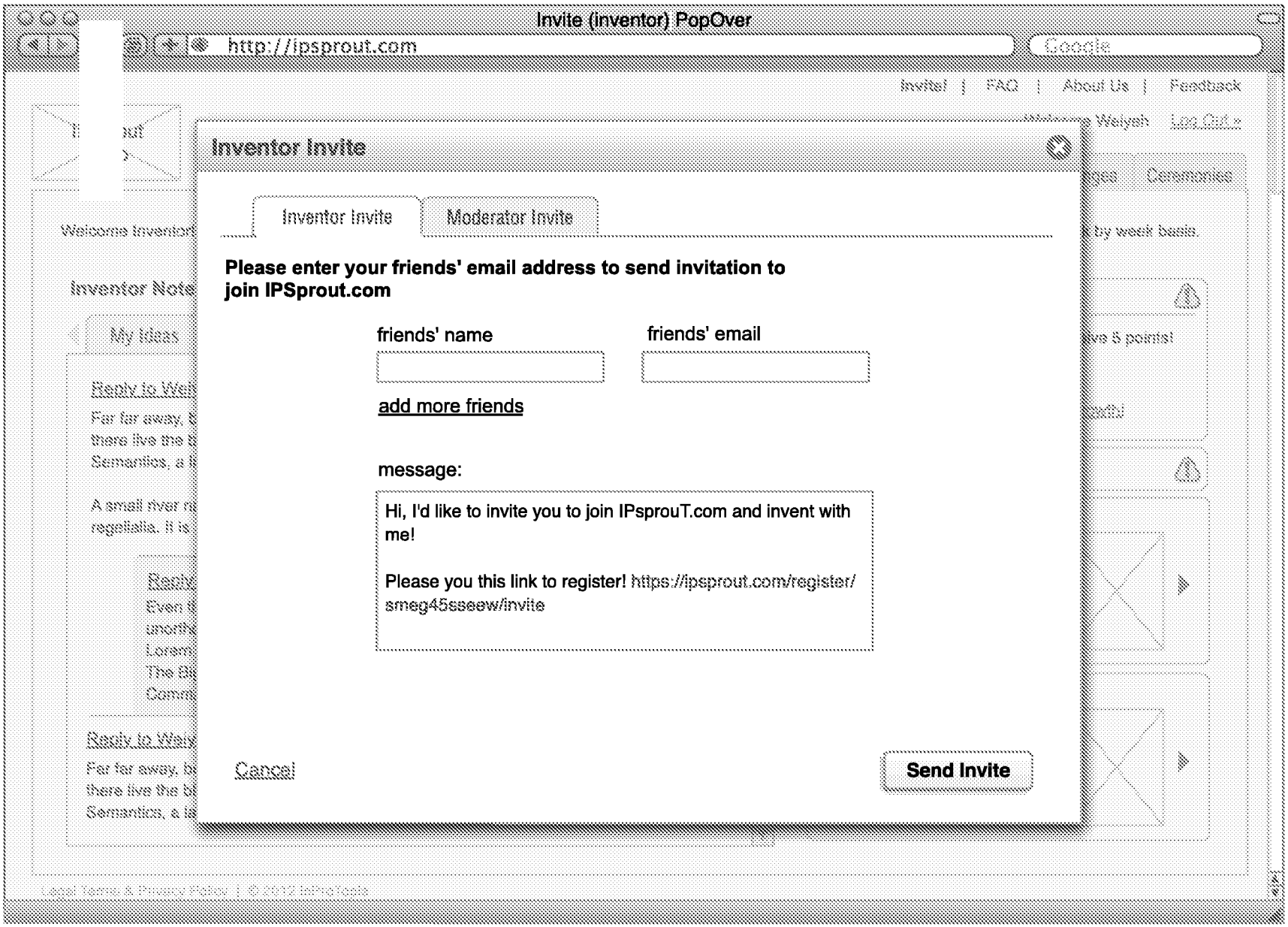

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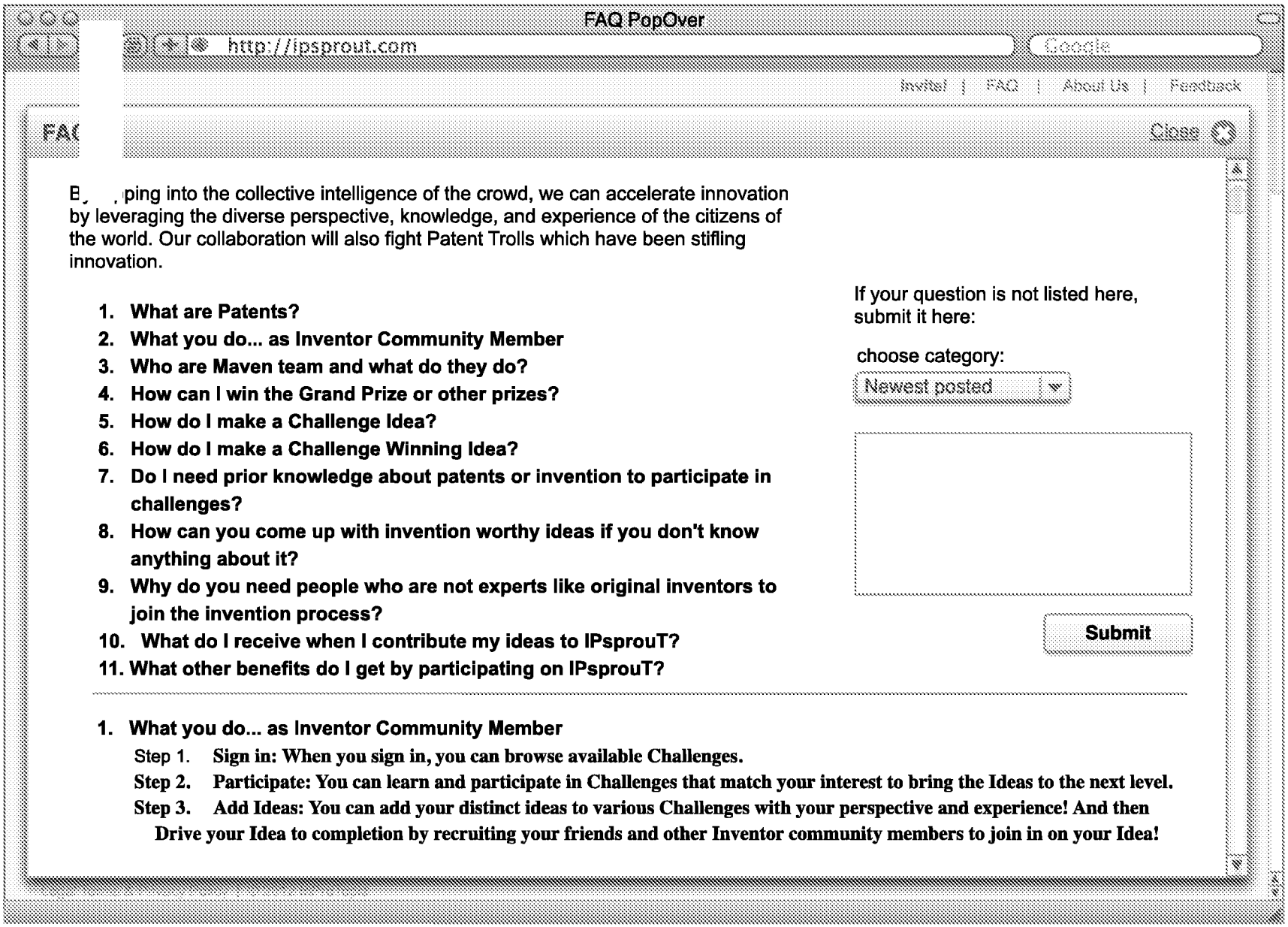

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B[illegible]ping into the collective intelligence of the crowd, we can accelerate innovation by leveraging the diverse perspective, knowledge, and experience of the citizens of the world. Our collaboration will also fight Patent Trolls which have been stifling innovation.

1. **What are Patents?**
2. **What you do... as Inventor Community Member**
3. **Who are Maven team and what do they do?**
4. **How can I win the Grand Prize or other prizes?**
5. **How do I make a Challenge Idea?**
6. **How do I make a Challenge Winning Idea?**
7. **Do I need prior knowledge about patents or invention to participate in challenges?**
8. **How can you come up with invention worthy ideas if you don't know anything about it?**
9. **Why do you need people who are not experts like original inventors to join the invention process?**
10. **What do I receive when I contribute my ideas to IPsprouT?**
11. **What other benefits do I get by participating on IPsprouT?**

If your question is not listed here, submit it here:

choose category:

Newest posted

Submit

---

1. **What you do... as Inventor Community Member**

Step 1. **Sign in: When you sign in, you can browse available Challenges.**

Step 2. Participate: You can learn and participate in Challenges that match your interest to bring the Ideas to the next level.

Step 3. Add Ideas: You can add your distinct ideas to various Challenges with your perspective and experience! And then Drive your Idea to completion by recruiting your friends and other Inventor community members to join in on your Idea!

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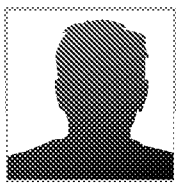
Founders

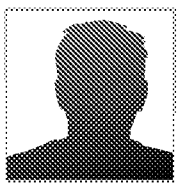
Souyun Lee
Co-Founder, CEO InProTopia Corporation; Co-Founder, President AgenTopia Corp ; Founder, Director, Souyun Yi Gallery



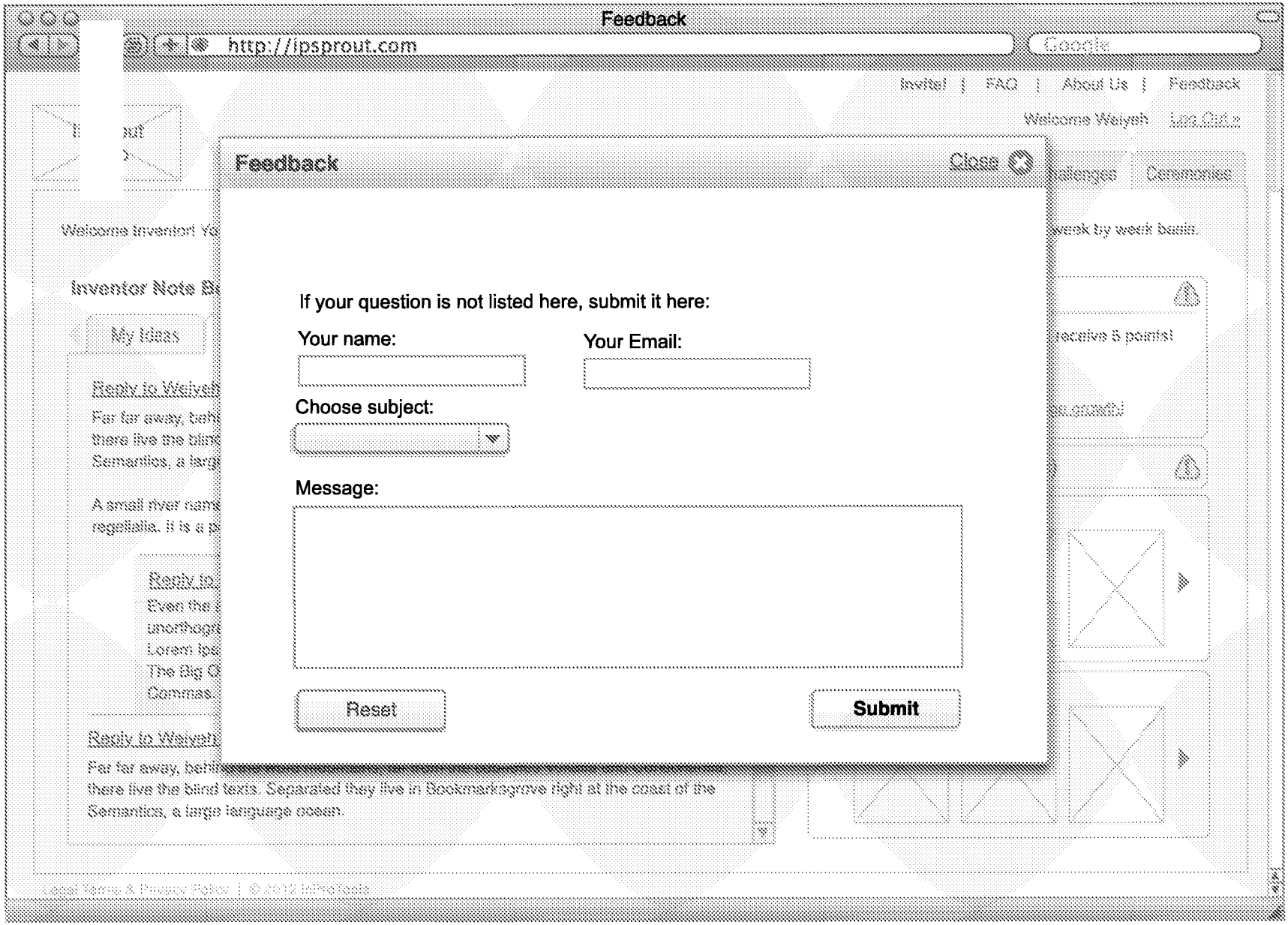
Wei-Yeh Lee
Co-Founder, CTO InProTopia Corporation; VP, Chief Architect @NAVTEQ; Co-Founder, CEO AgenTopia Corp ; Director, Unicast Communications; Co-Founder, Treasurer, Mediabridge InfoSystems

Advisors

Harvey Koeppel
Executive Director, IBM Center for CIO Leadership; Executive Director @IBM; Advisory Council Member @World BPO Forum CIO, Global Consumer Group @Citigroup.



Tero Ojanpera
Managing Partner @Vision+ Executive VP, Nokia Services Nokia Group Executive Board Member CTO @Nokia Chief Strategy Officer @Nokia



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122
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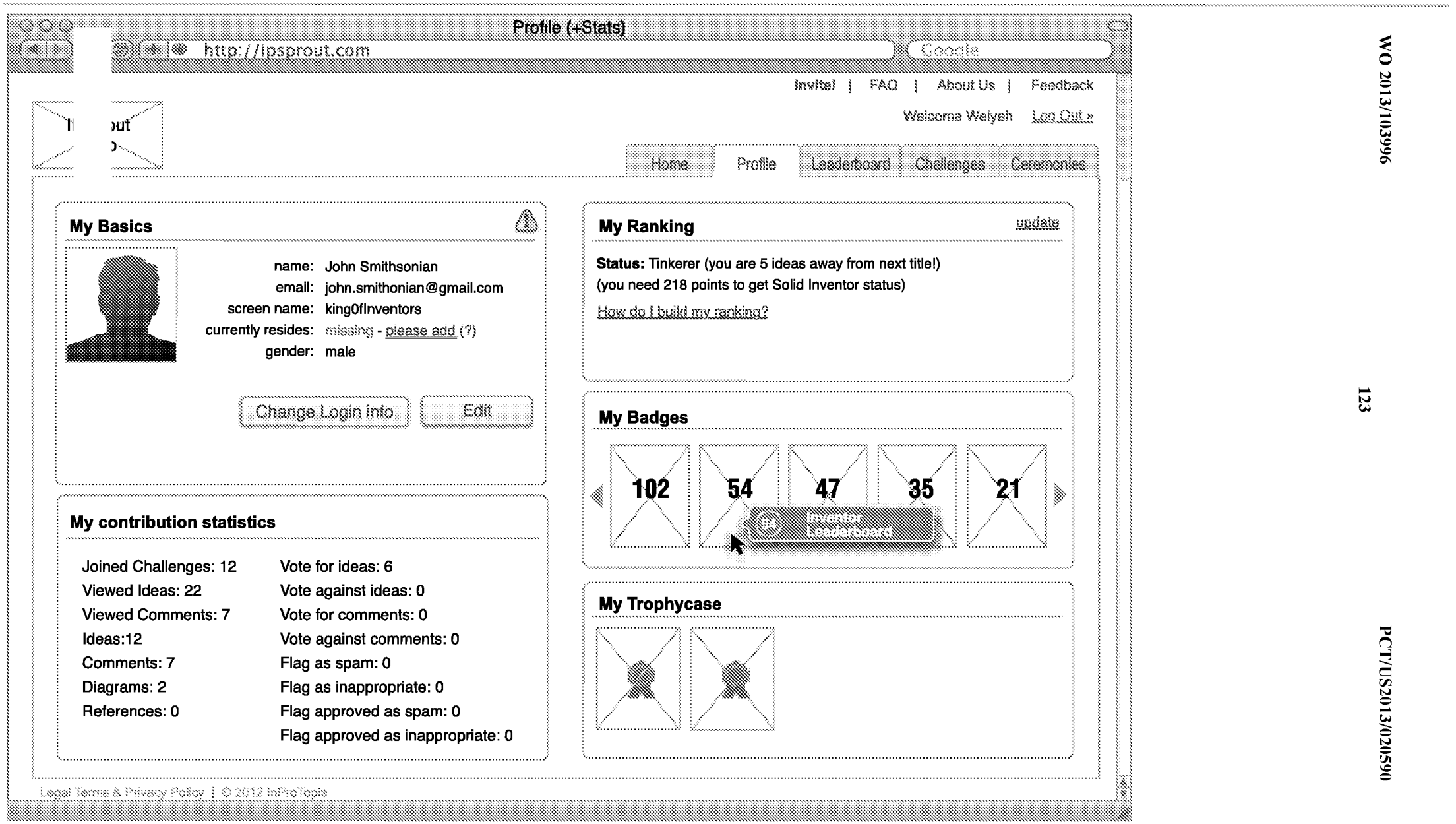
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Home
Profile
Leaderboard
Challenges
Ceremonies
My Basics
name: John Smithsonian
email: john.smithonian@gmail.com
screen name: king0fInventors
currently resides: missing - please add (?)
gender: male
Change Login info
Edit
My Ranking
update
Status: Tinkerer (you are 5 ideas away from next title!)
(you need 218 points to get Solid Inventor status)
How do I build my ranking?
My Badges
102
54
47
35
21
Inventor Leaderboard
My contribution statistics
Joined Challenges: 12
Viewed Ideas: 22
Viewed Comments: 7
Ideas:12
Comments: 7
Diagrams: 2
References: 0
Vote for ideas: 6
Vote against ideas: 0
Vote for comments: 0
Vote against comments: 0
Flag as spam: 0
Flag as inappropriate: 0
Flag approved as spam: 0
Flag approved as inappropriate: 0
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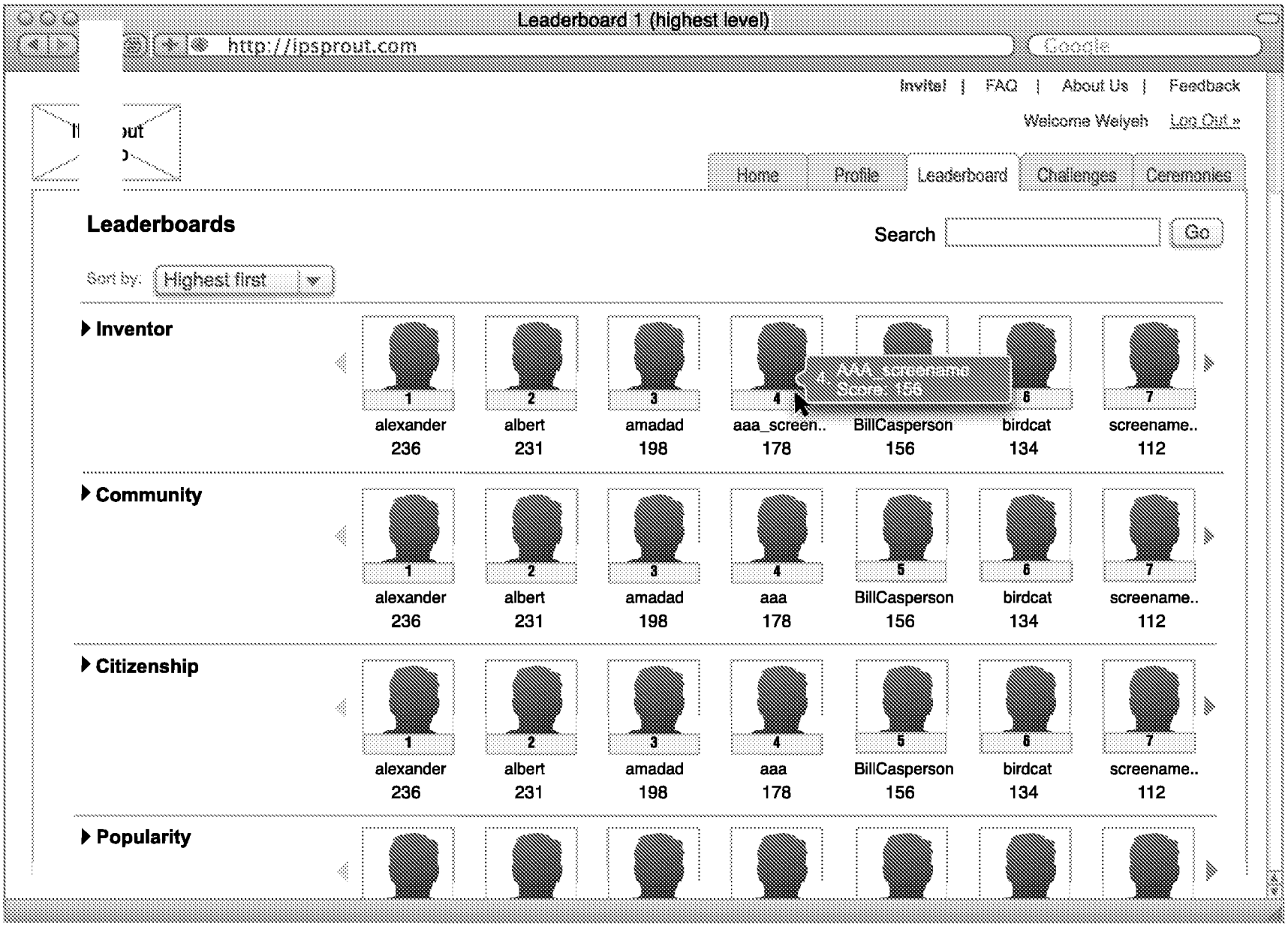

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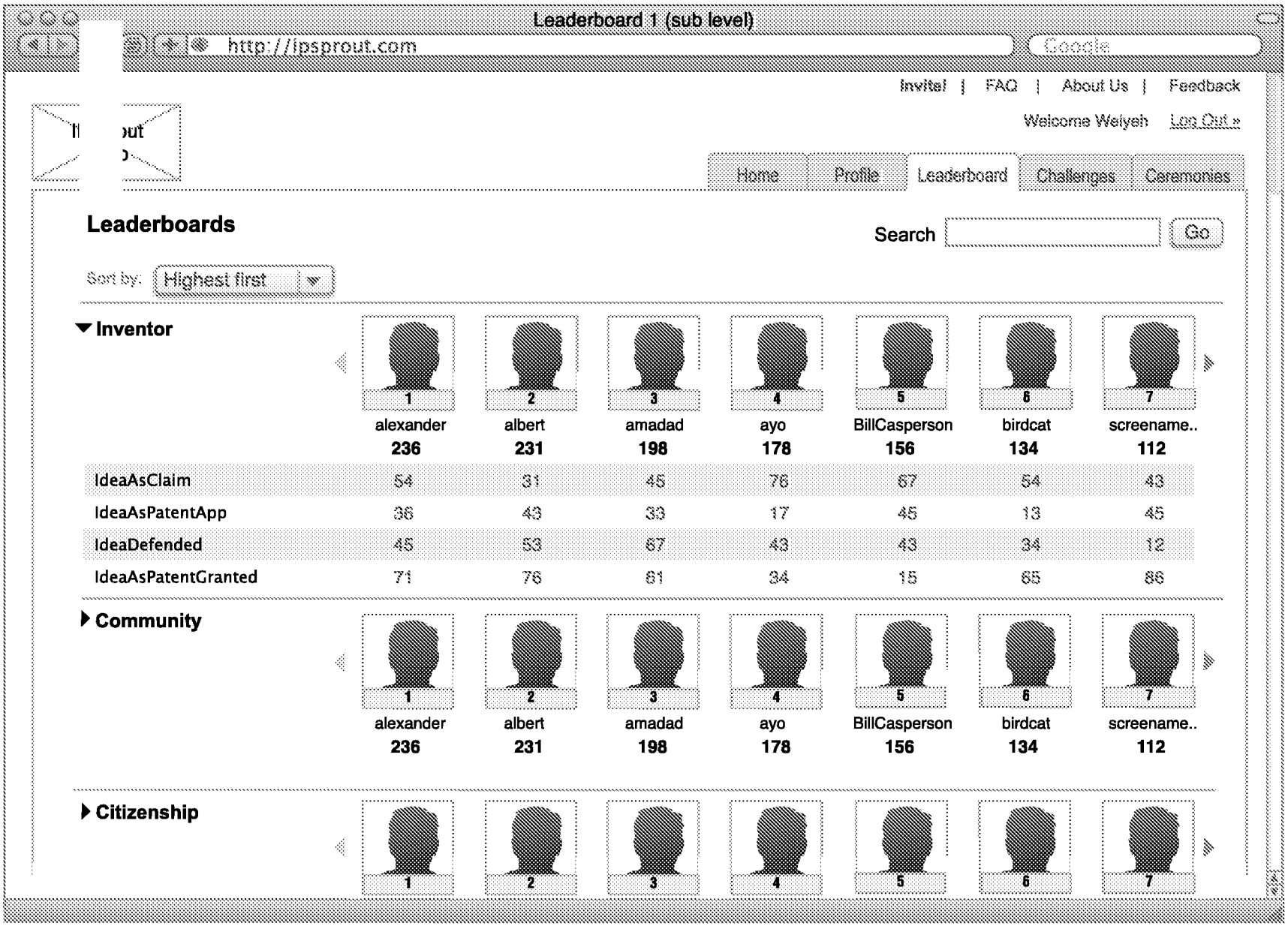

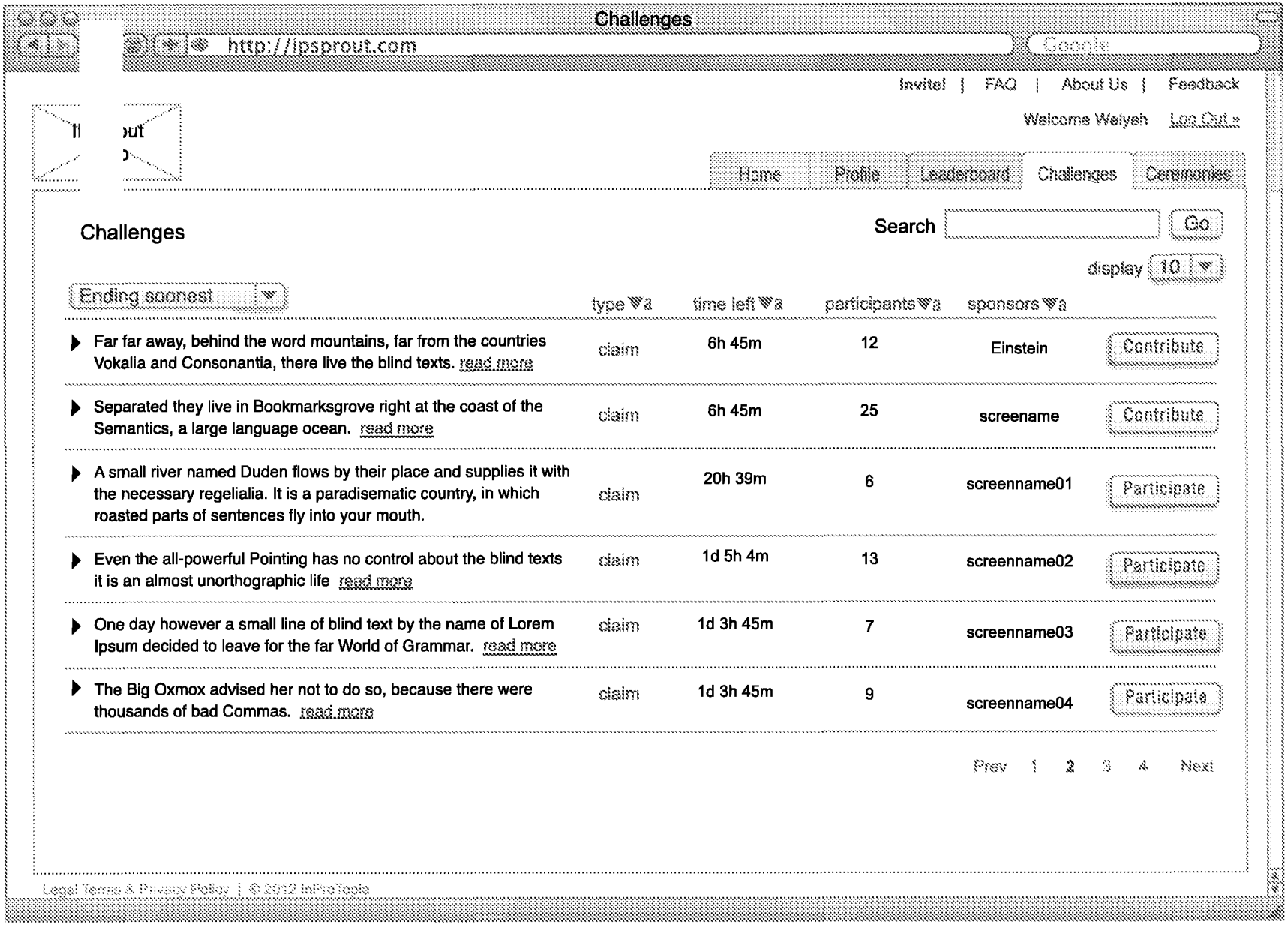
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Welcome Weiyeh Log Out »
Home
Profile
Leaderboard
Challenges
Ceremonies
Challenges
Search
Go
display 10
Ending soonest
type
time left
participants
sponsors
Far far away, behind the word mountains, far from the countries Vokalia and Consonantia, there live the blind texts. read more
claim
6h 45m
12
Einstein
Contribute
Separated they live in Bookmarksgrove right at the coast of the Semantics, a large language ocean. read more
claim
6h 45m
25
screename
Contribute
A small river named Duden flows by their place and supplies it with the necessary regelialia. It is a paradisematic country, in which roasted parts of sentences fly into your mouth.
claim
20h 39m
6
screenname01
Participate
Even the all-powerful Pointing has no control about the blind texts it is an almost unorthographic life read more
claim
1d 5h 4m
13
screenname02
Participate
One day however a small line of blind text by the name of Lorem Ipsum decided to leave for the far World of Grammar. read more
claim
1d 3h 45m
7
screenname03
Participate
The Big Oxmox advised her not to do so, because there were thousands of bad Commas. read more
claim
1d 3h 45m
9
screenname04
Participate
Prev 1 2 3 4 Next
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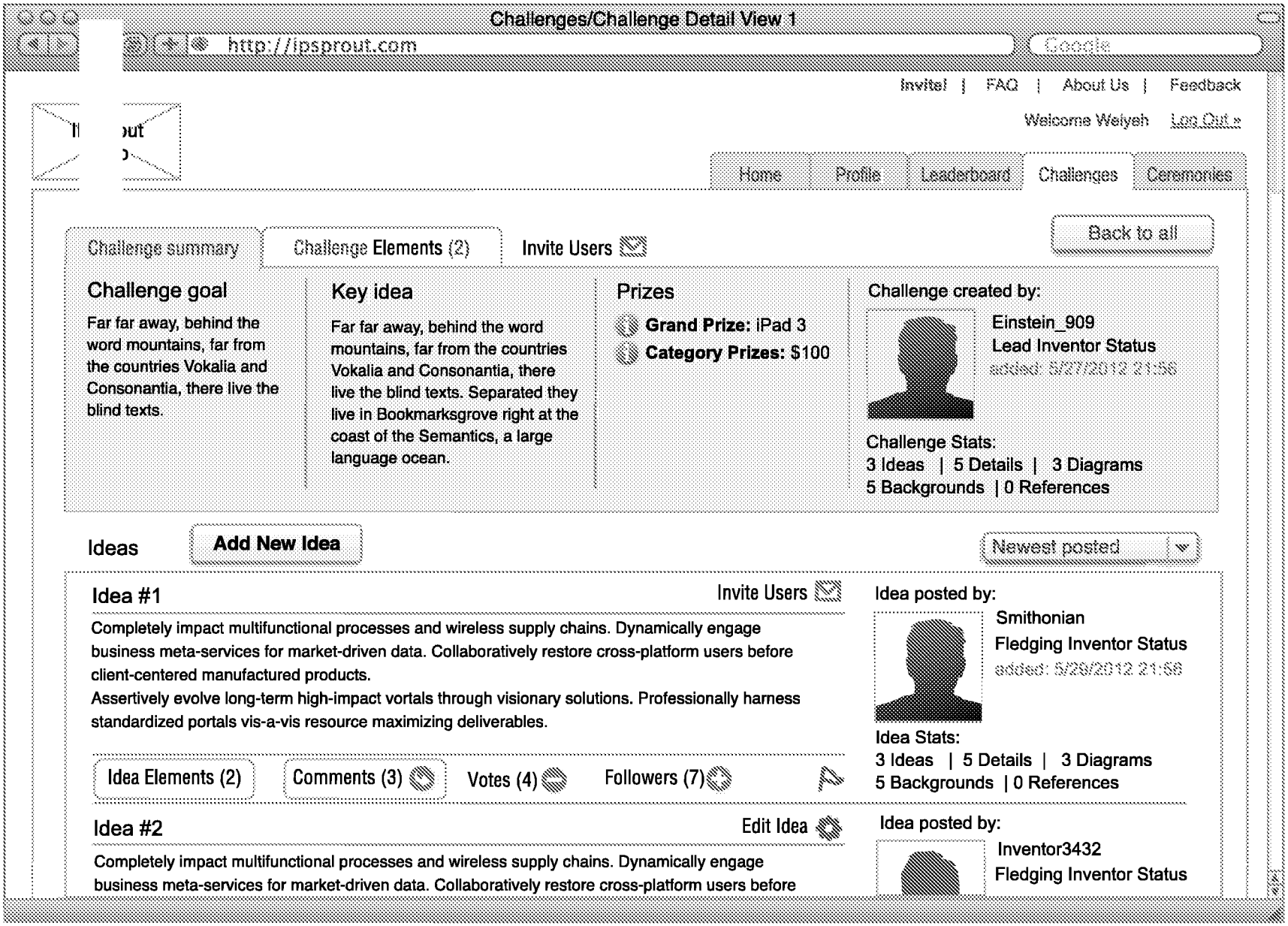

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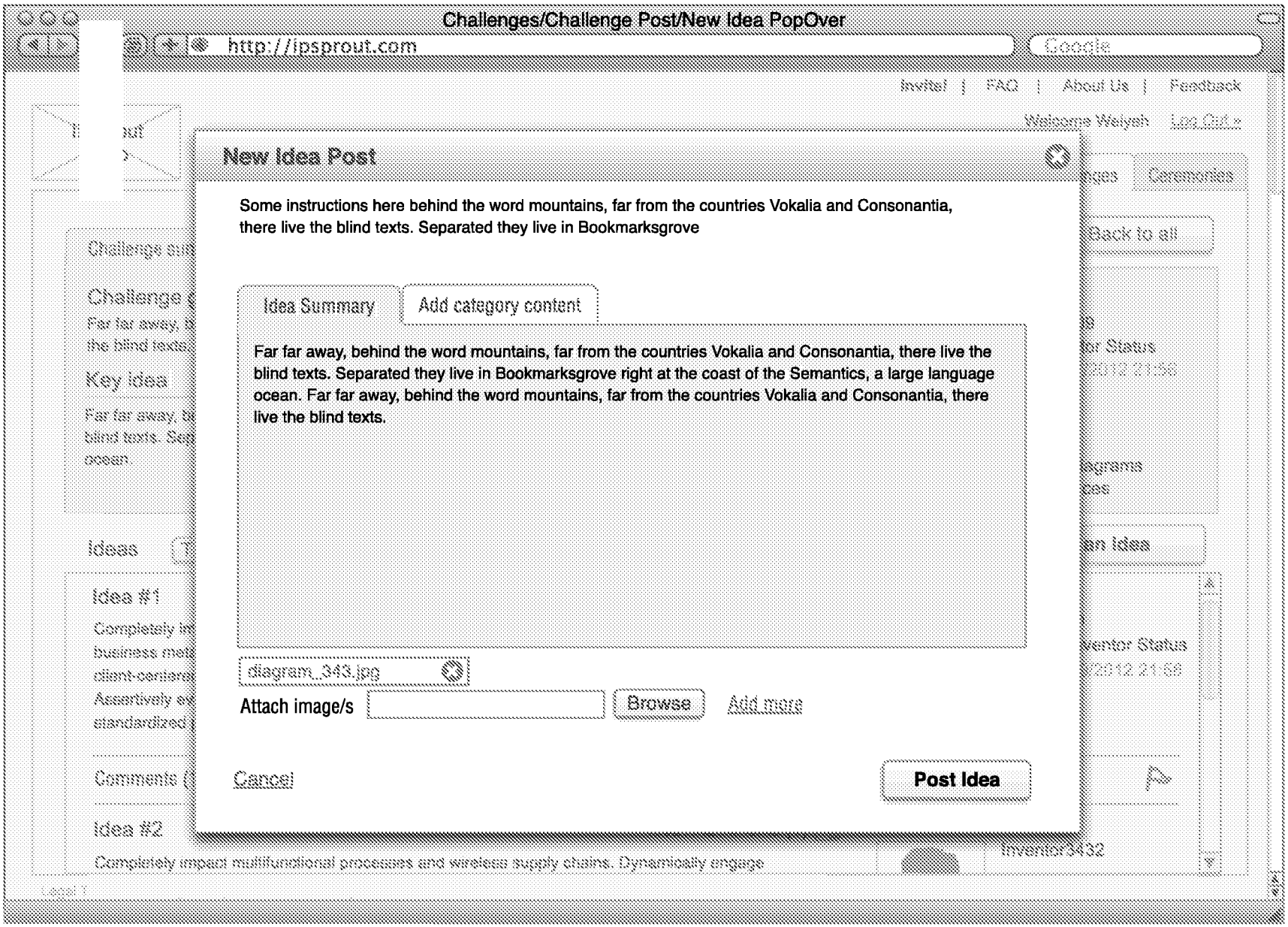
Version: 3.3 Modified: 12.26.12 (14)



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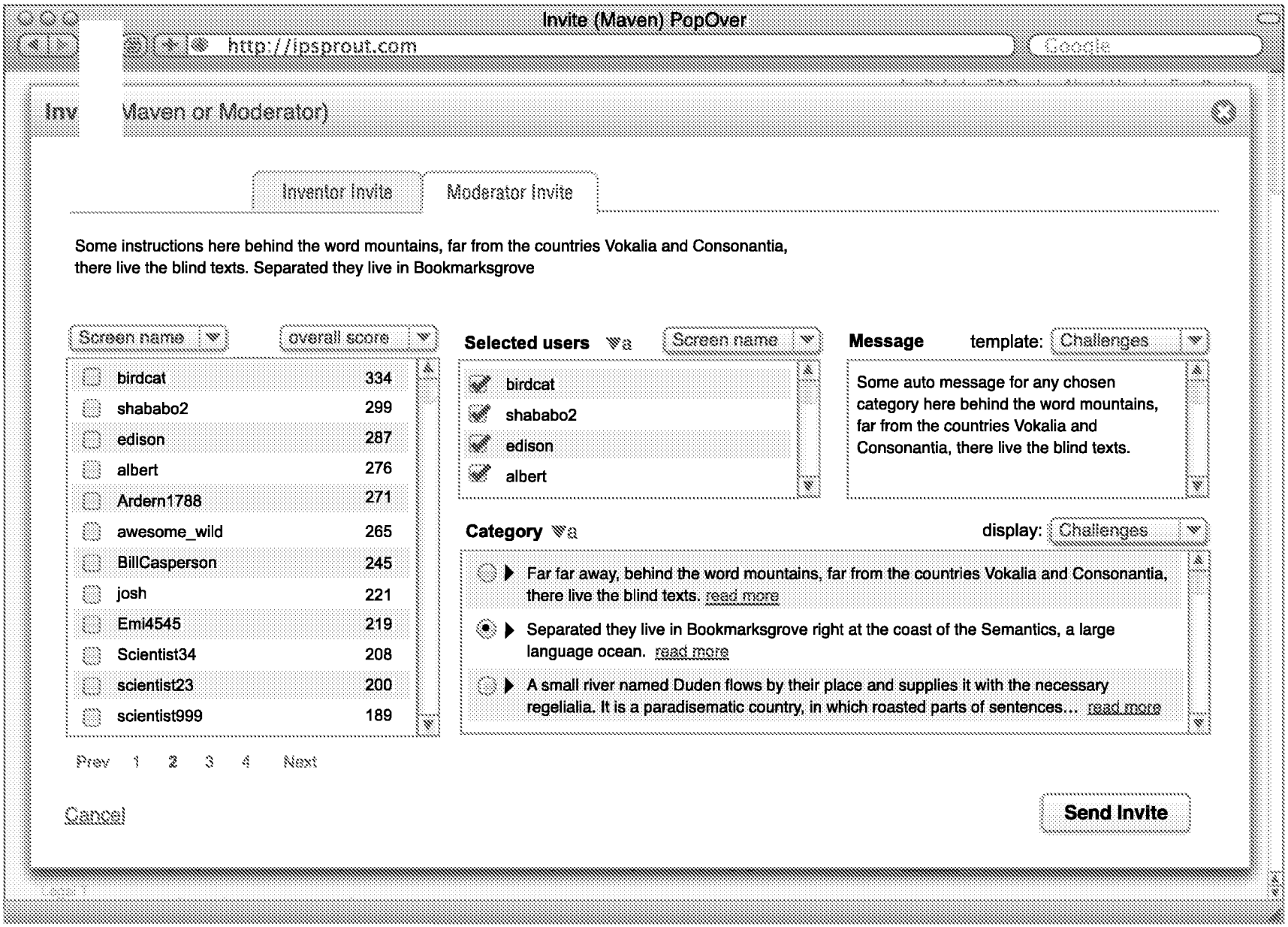
Version: 3.3 Modified: 12.26.12 (15)



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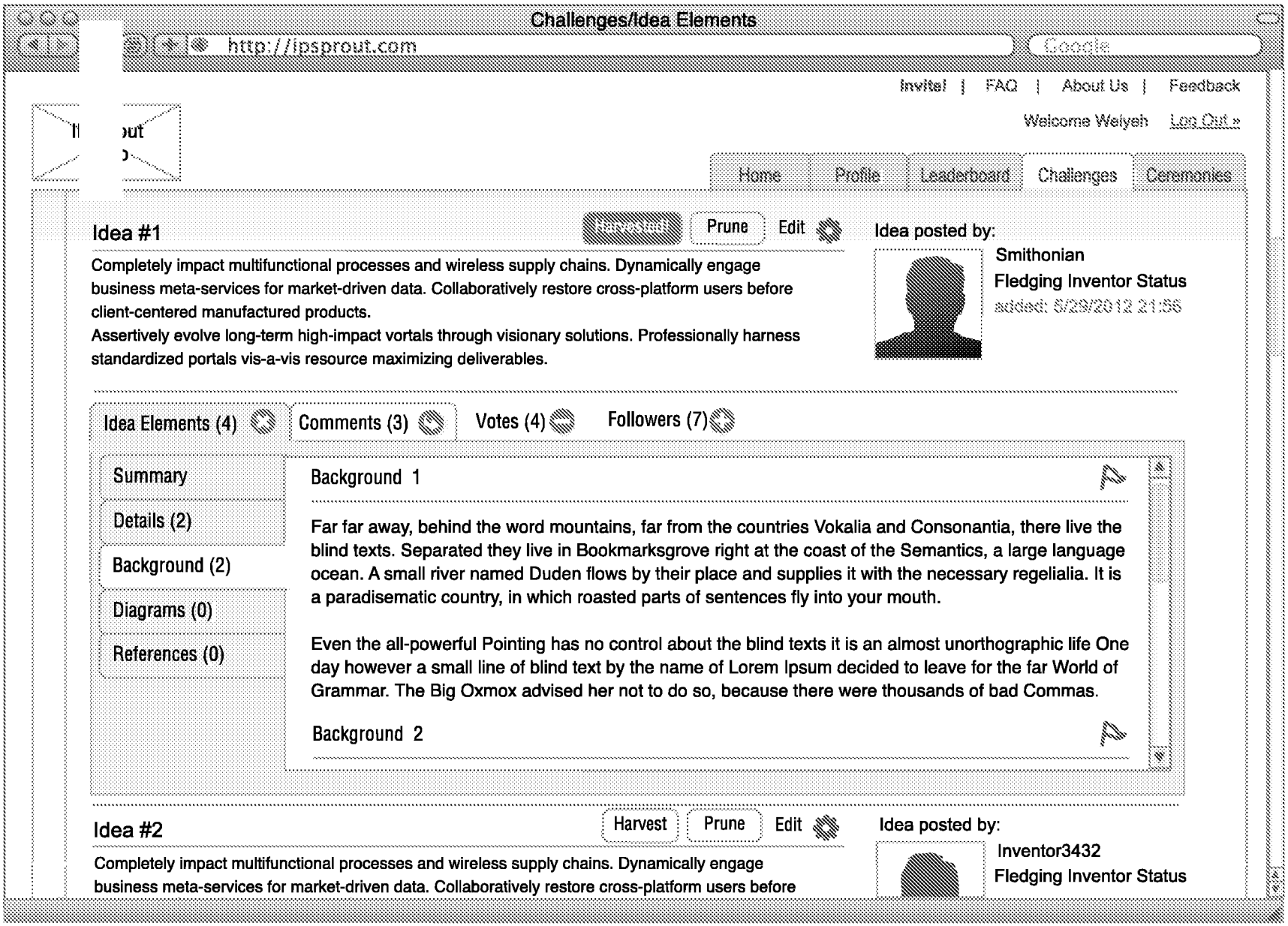
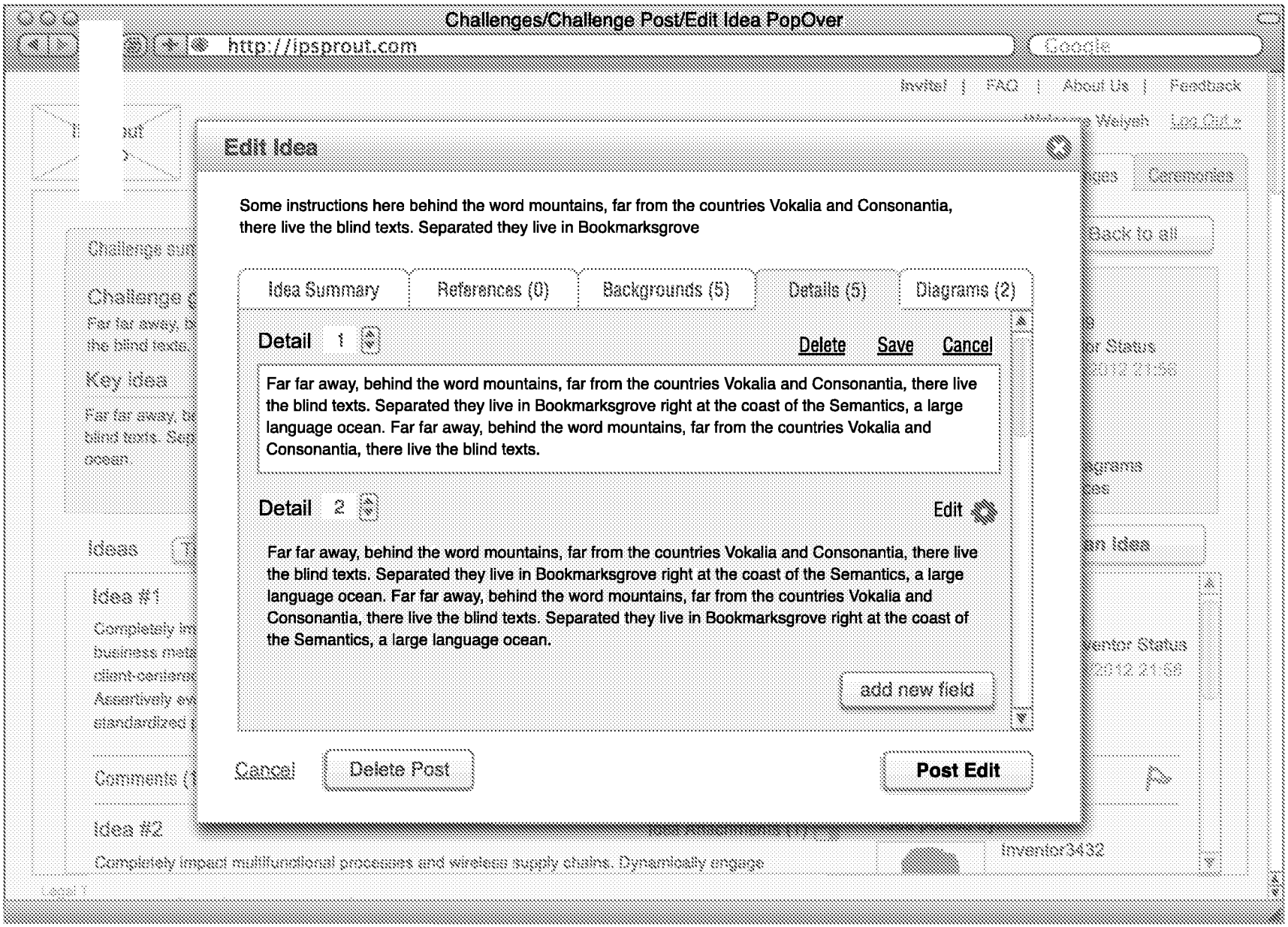
Prepared by Fildor Kiseelgoff
Version: 3.3 Modified: 12.26.12 (16)





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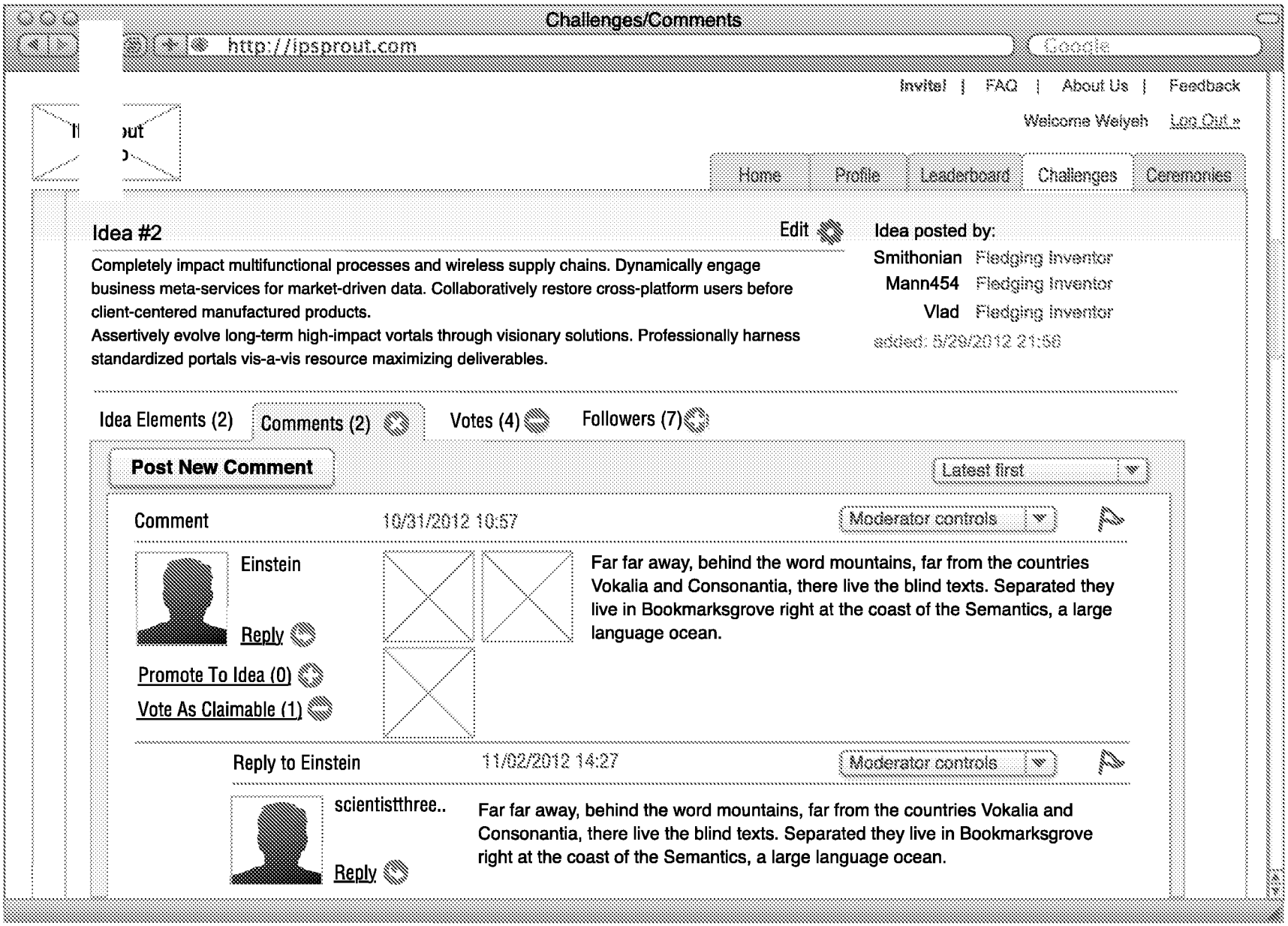

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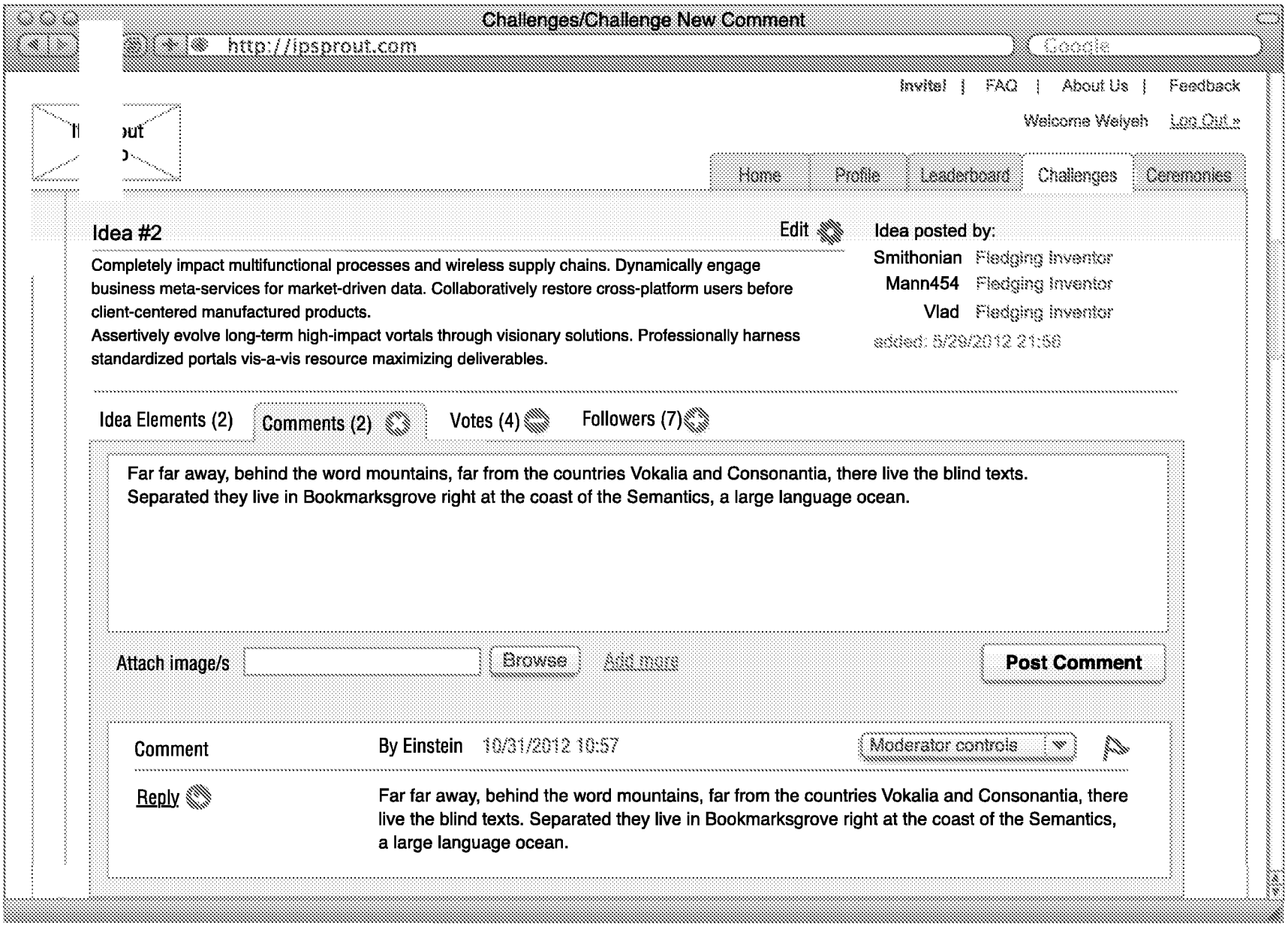

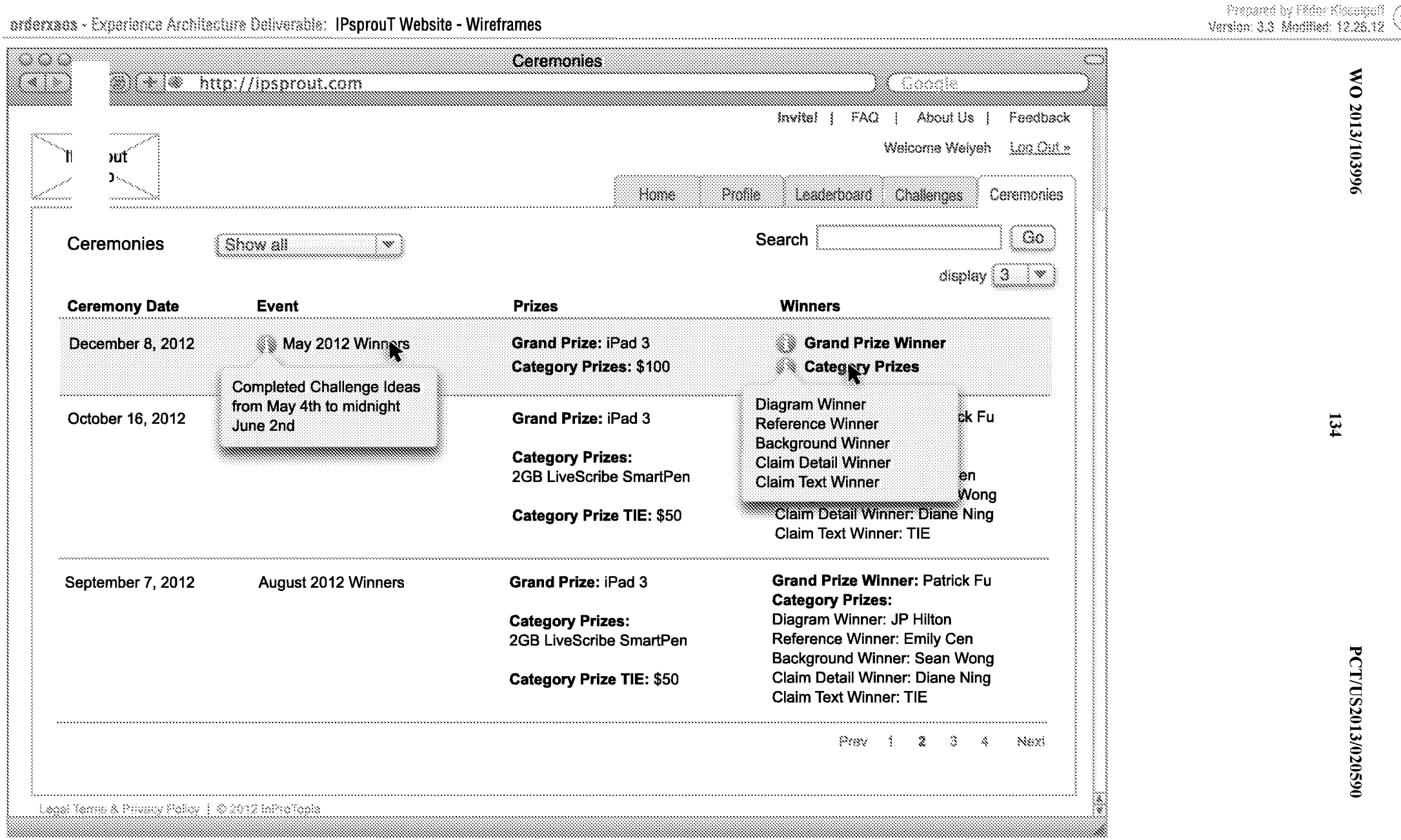
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December 8, 2012
May 2012 Winners
Grand Prize: iPad 3
Category Prizes: $100
Grand Prize Winner
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Completed Challenge Ideas from May 4th to midnight June 2nd
Diagram Winner
Reference Winner
Background Winner
Claim Detail Winner
Claim Text Winner
October 16, 2012
Grand Prize: iPad 3
Category Prizes:
2GB LiveScribe SmartPen
Category Prize TIE: $50
Claim Detail Winner: Diane Ning
Claim Text Winner: TIE
September 7, 2012
August 2012 Winners
Grand Prize: iPad 3
Category Prizes:
2GB LiveScribe SmartPen
Category Prize TIE: $50
Grand Prize Winner: Patrick Fu
Category Prizes:
Diagram Winner: JP Hilton
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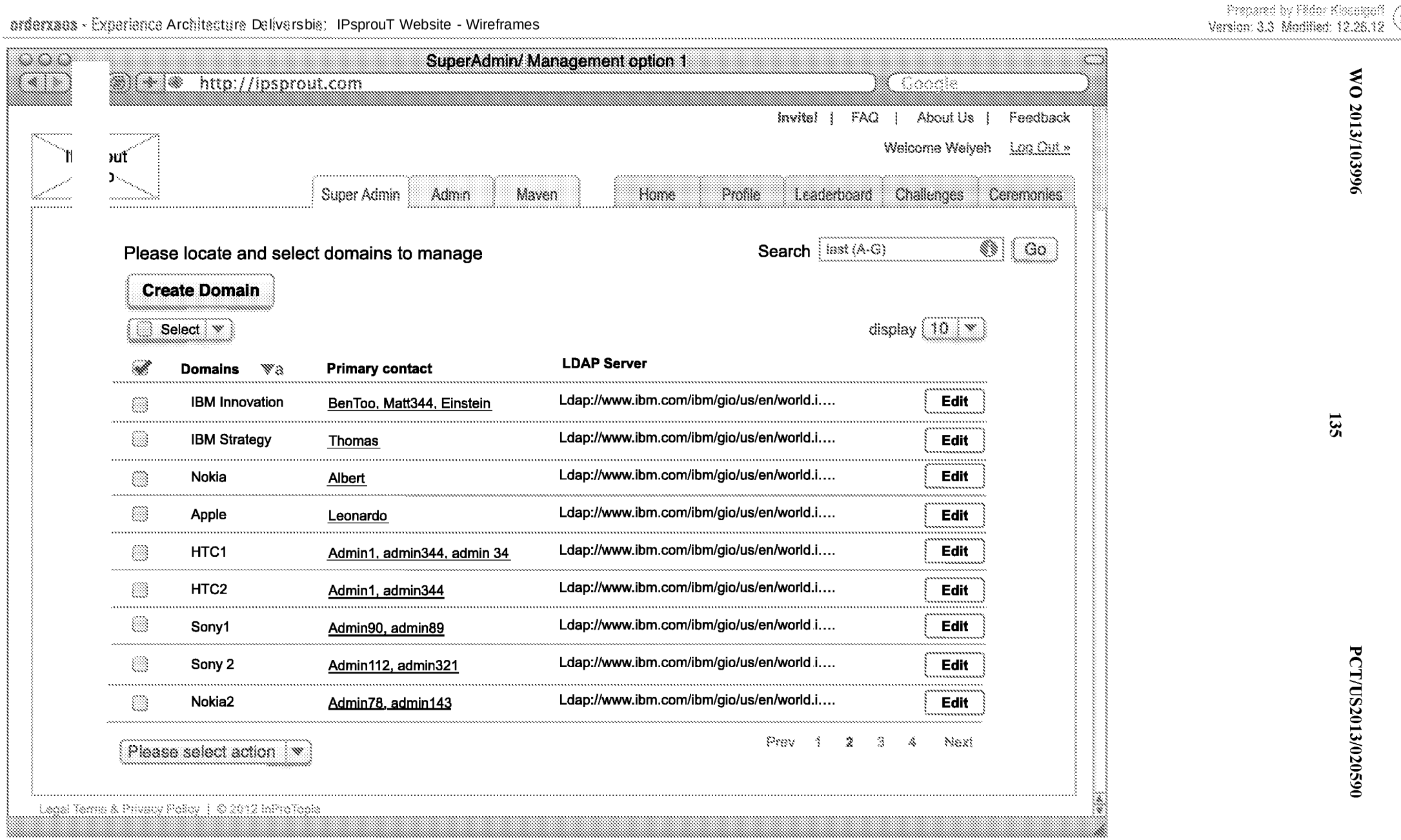
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SuperAdmin/ Management option 1
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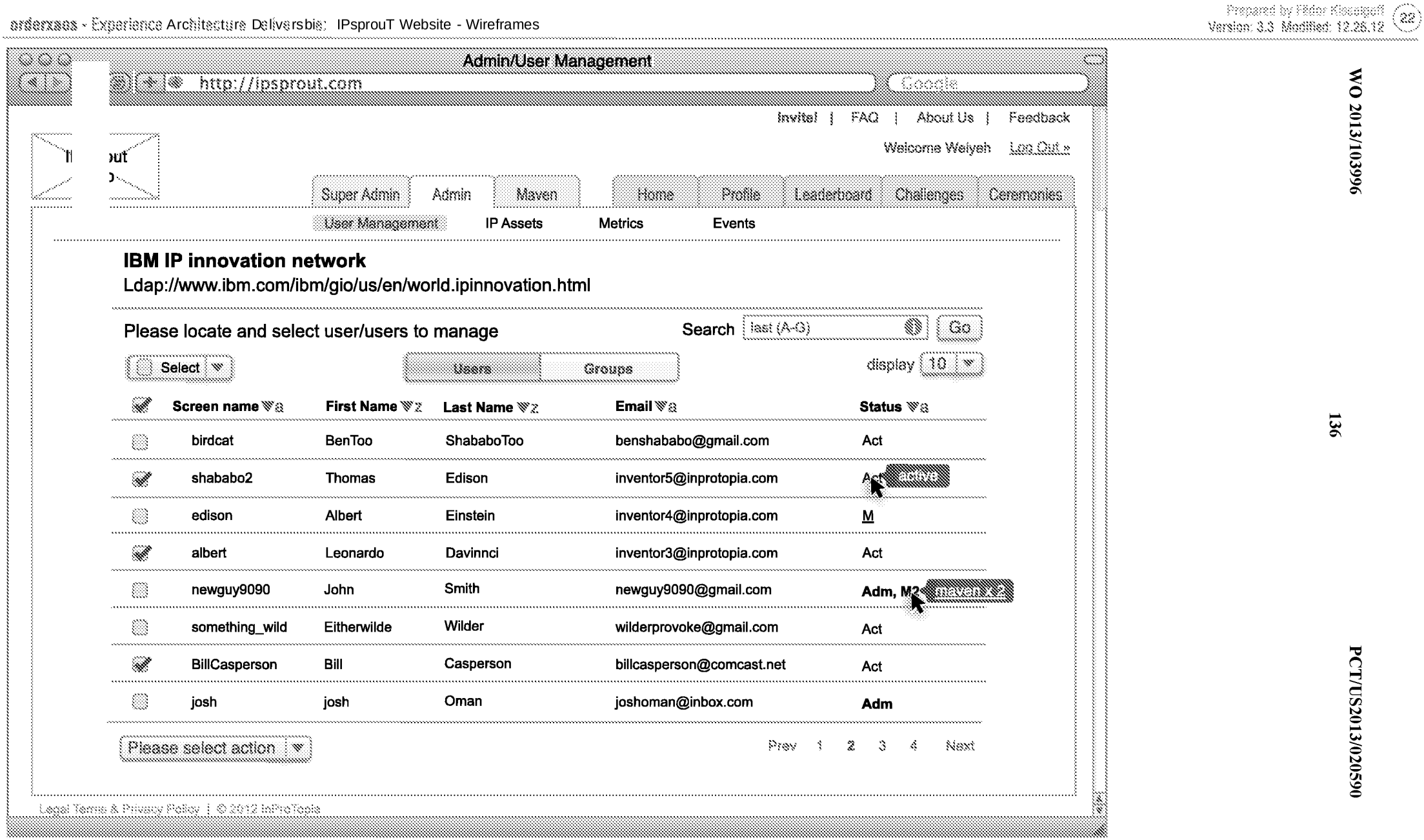
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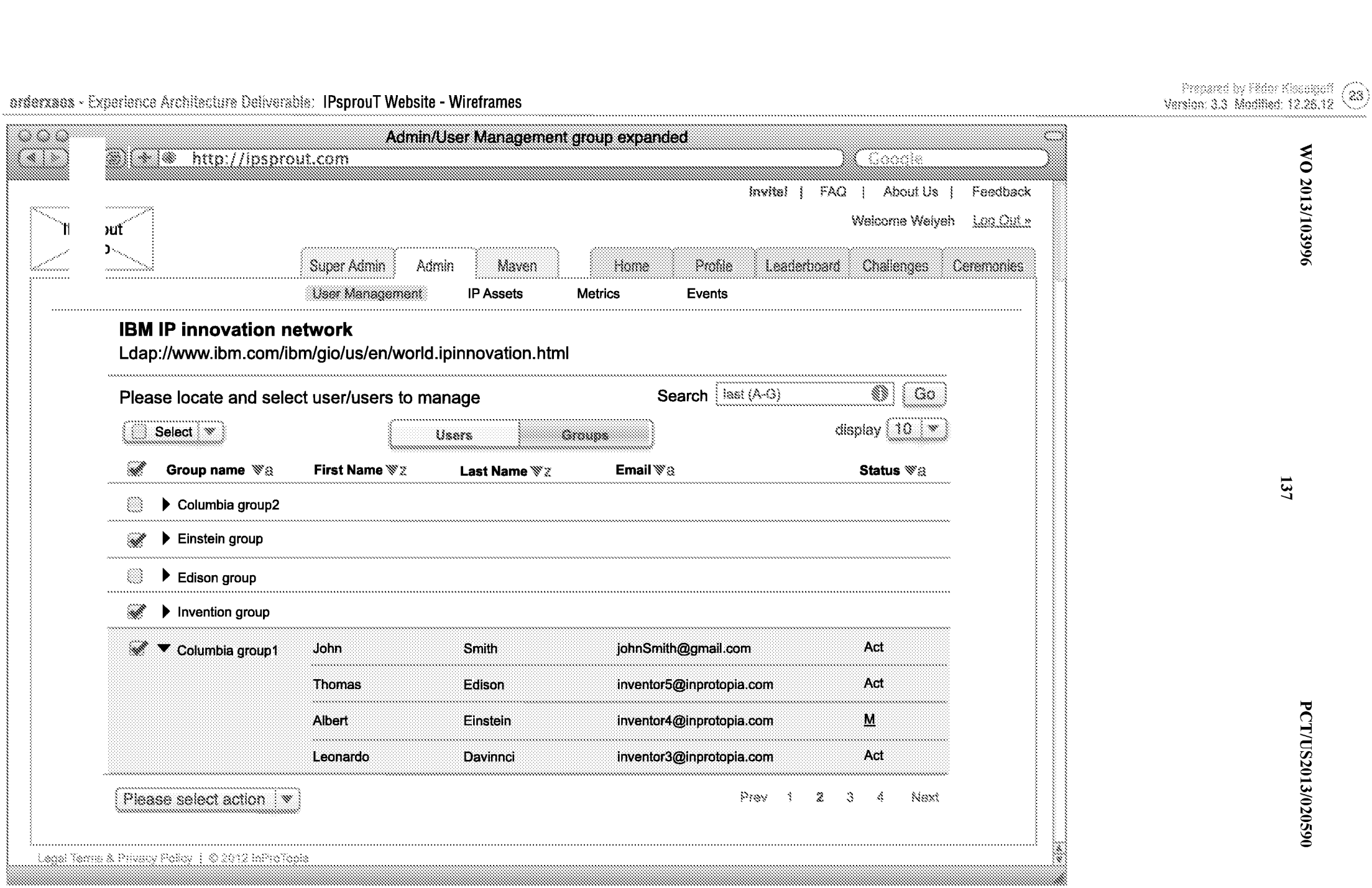
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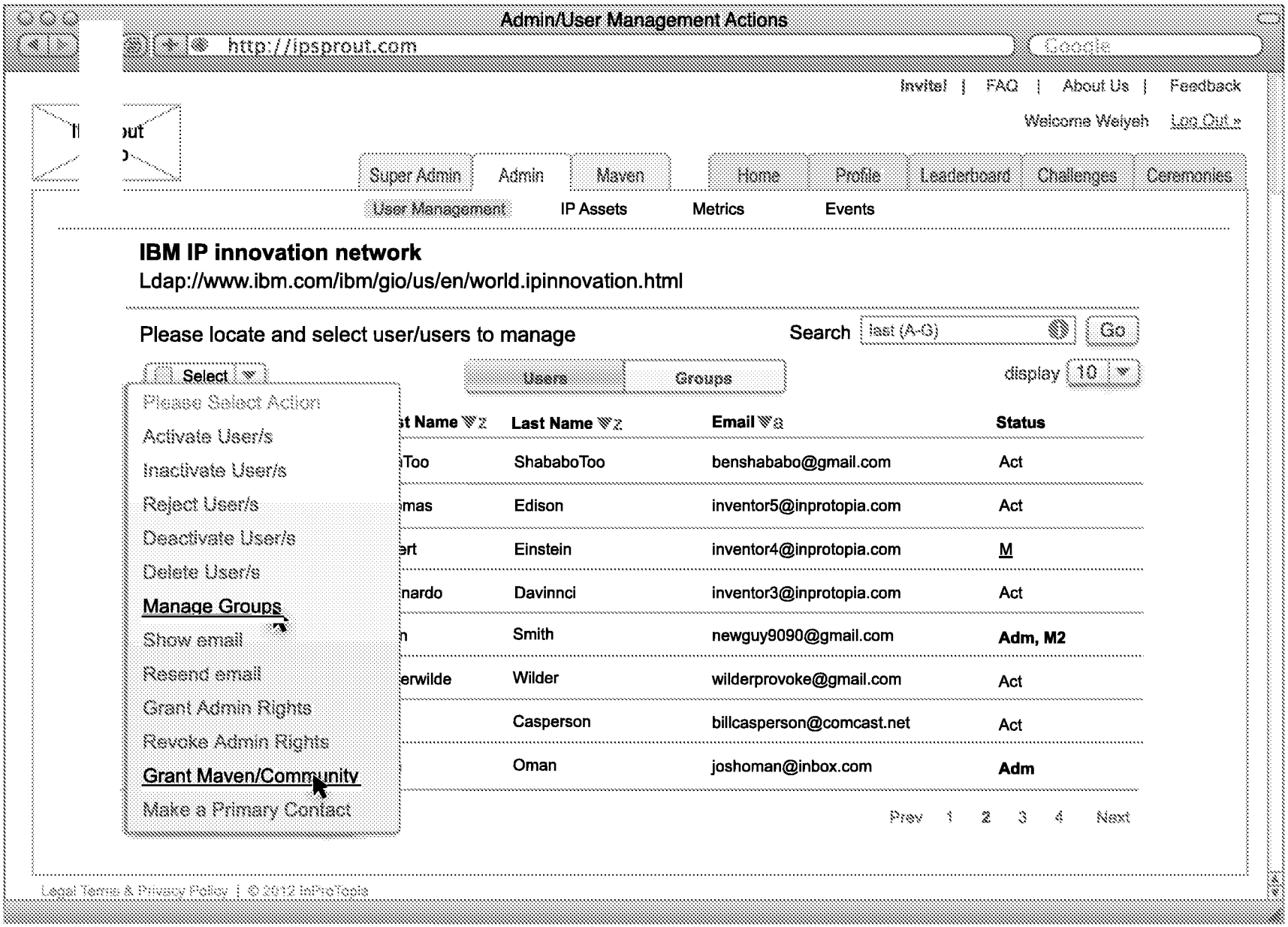

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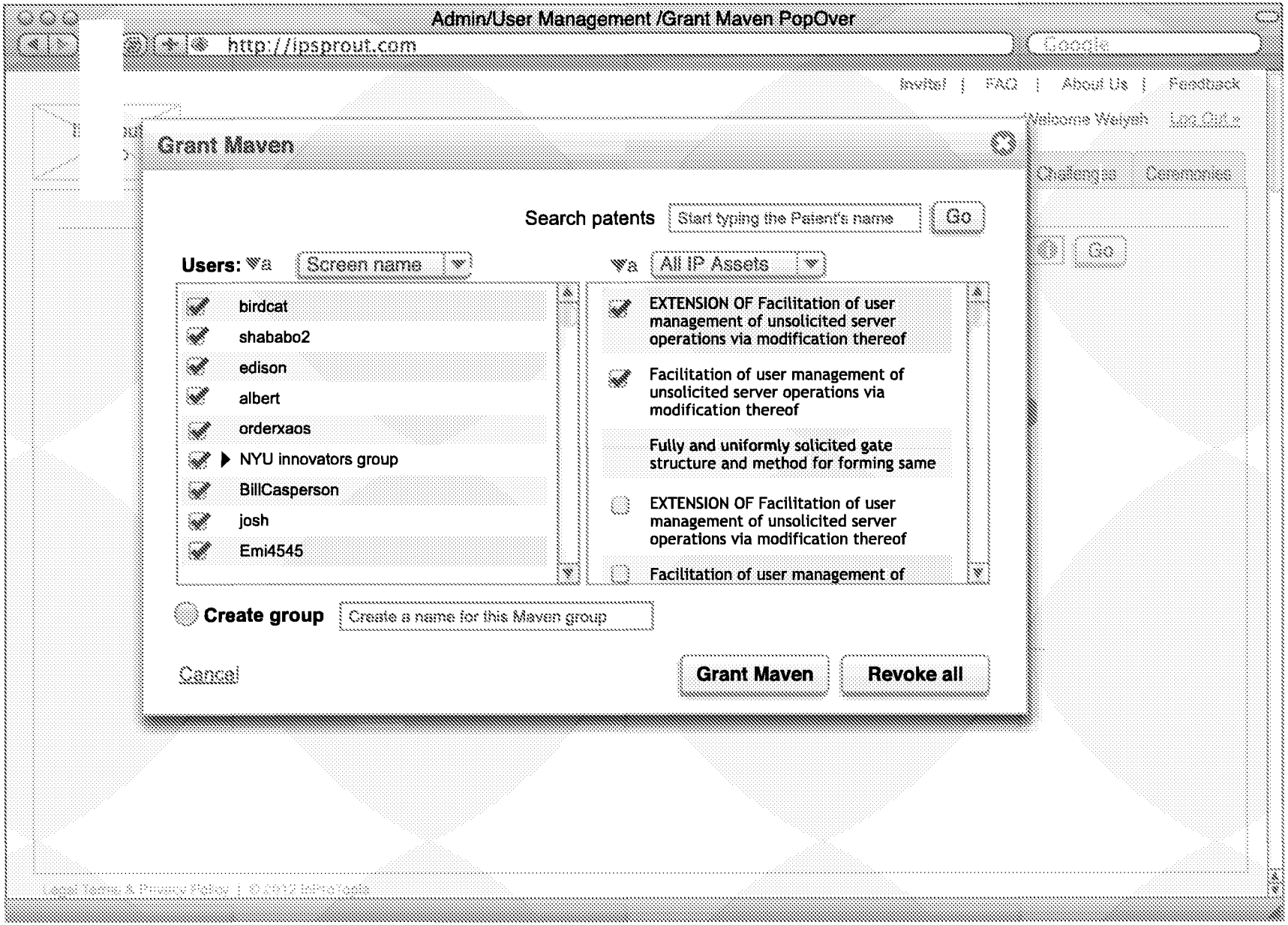

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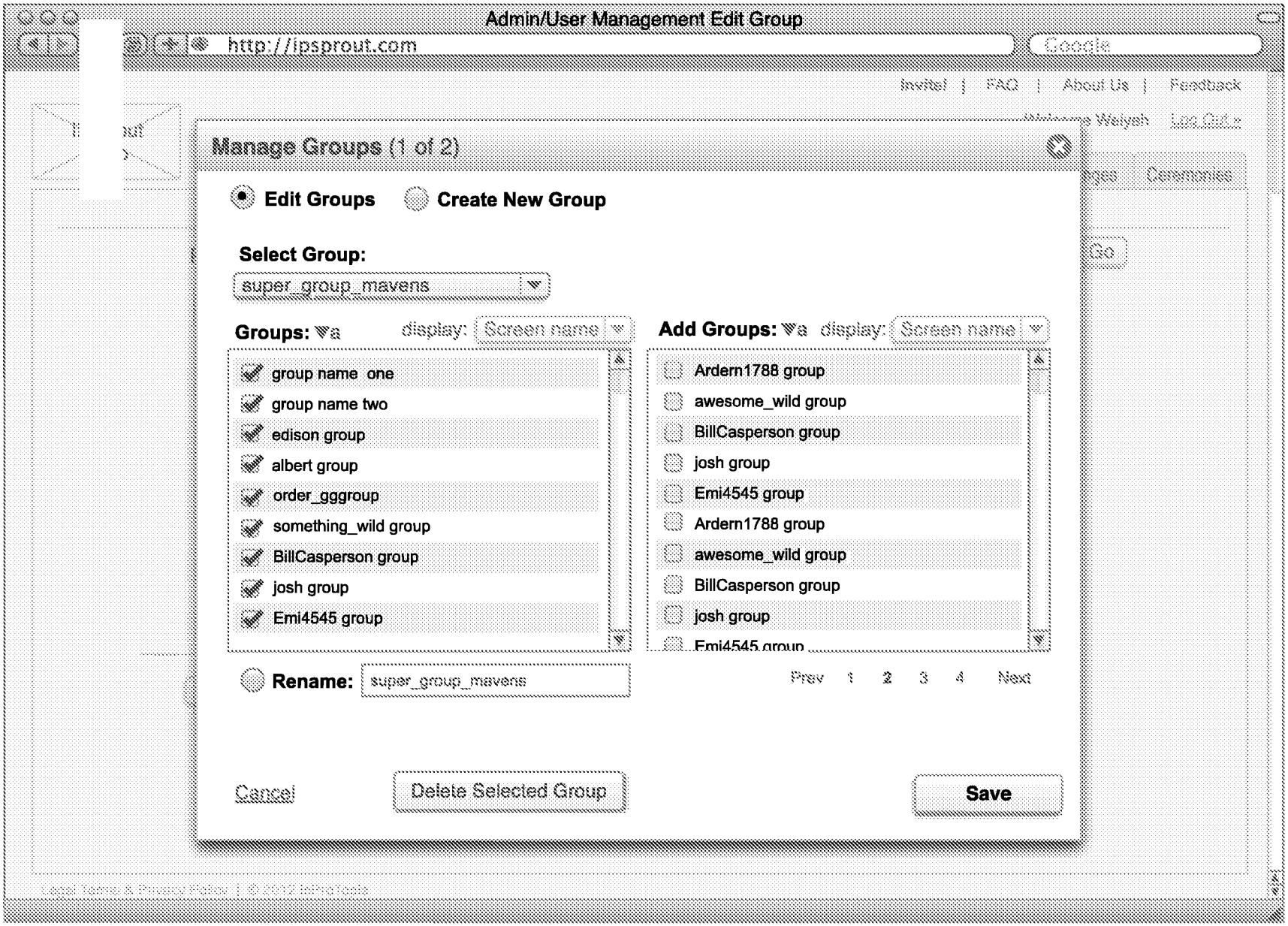

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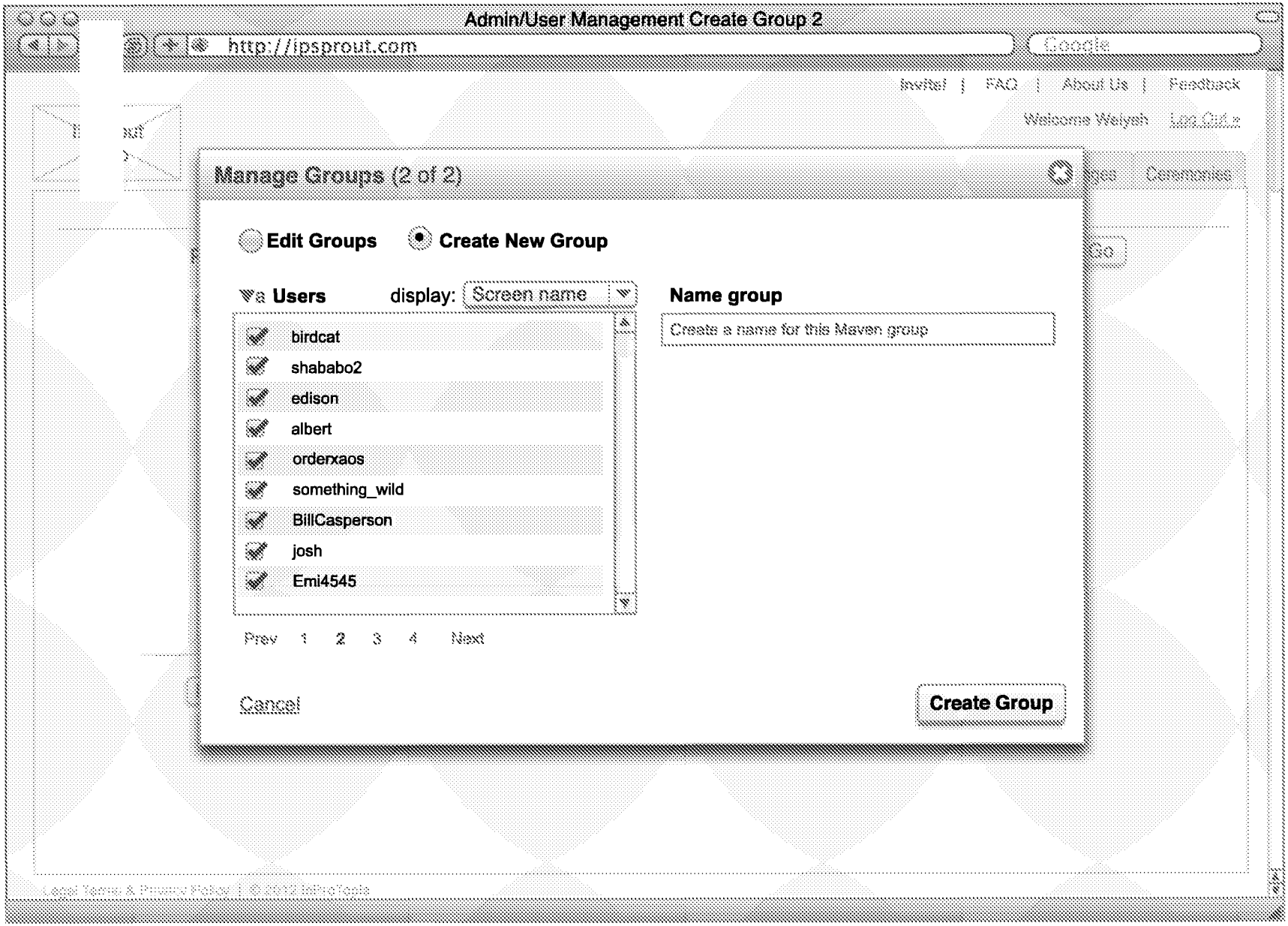

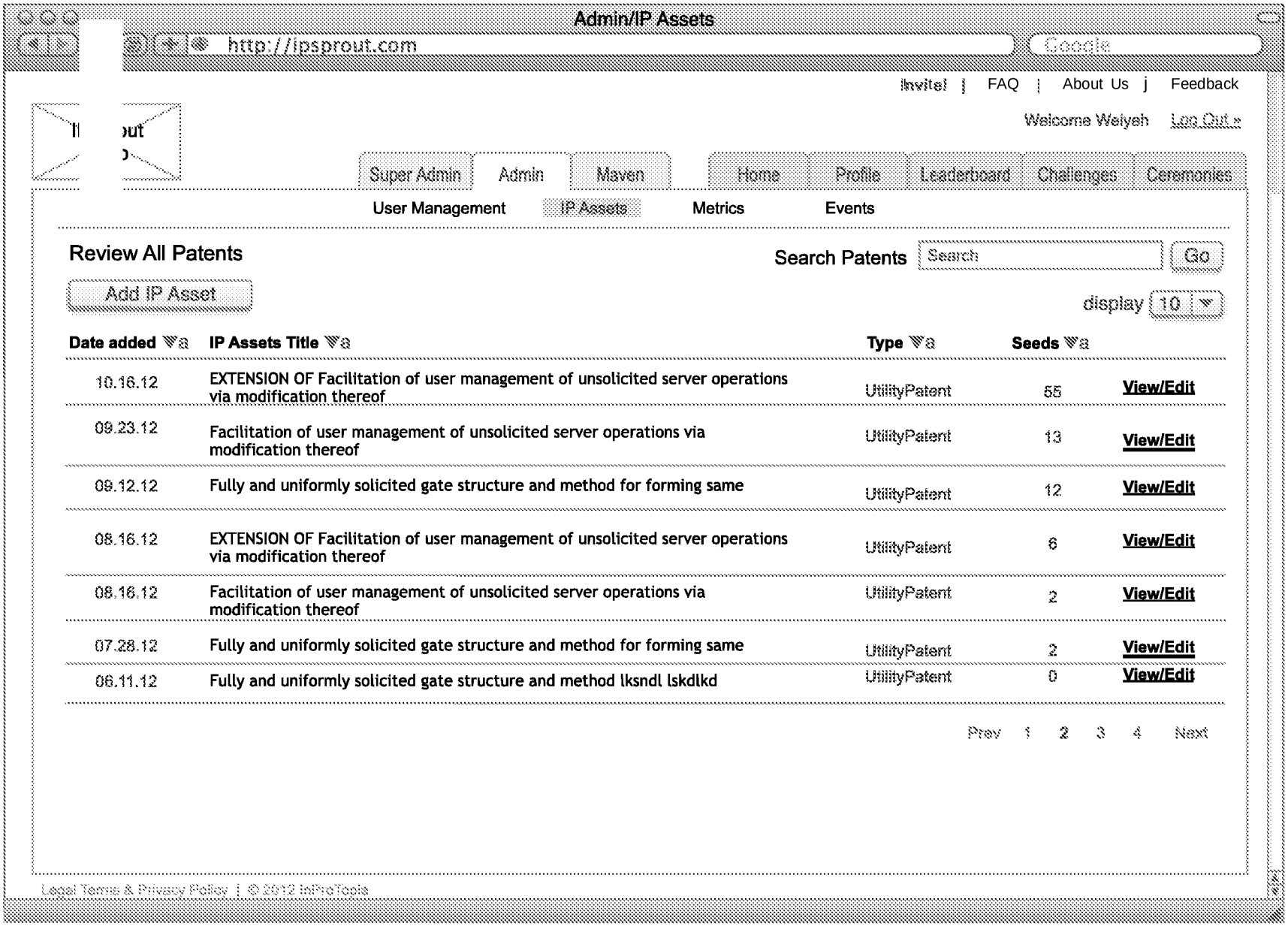
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10.16.12 EXTENSION OF Facilitation of user management of unsolicited server operations via modification thereof UtilityPatent 55 View/Edit
09.23.12 Facilitation of user management of unsolicited server operations via modification thereof UtilityPatent 13 View/Edit
09.12.12 Fully and uniformly solicited gate structure and method for forming same UtilityPatent 12 View/Edit
08.16.12 EXTENSION OF Facilitation of user management of unsolicited server operations via modification thereof UtilityPatent 6 View/Edit
08.16.12 Facilitation of user management of unsolicited server operations via modification thereof UtilityPatent 2 View/Edit
07.28.12 Fully and uniformly solicited gate structure and method for forming same UtilityPatent 2 View/Edit
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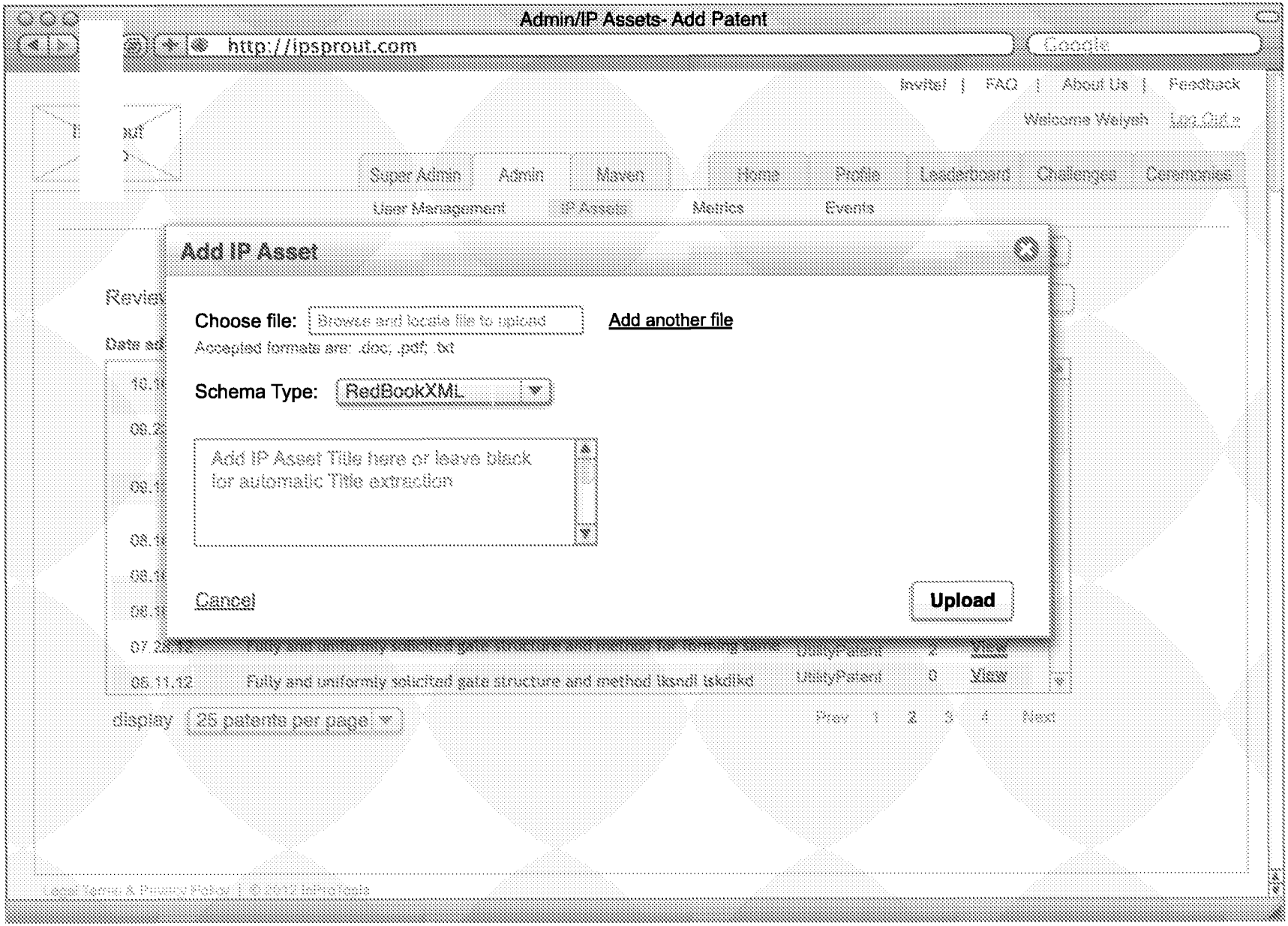

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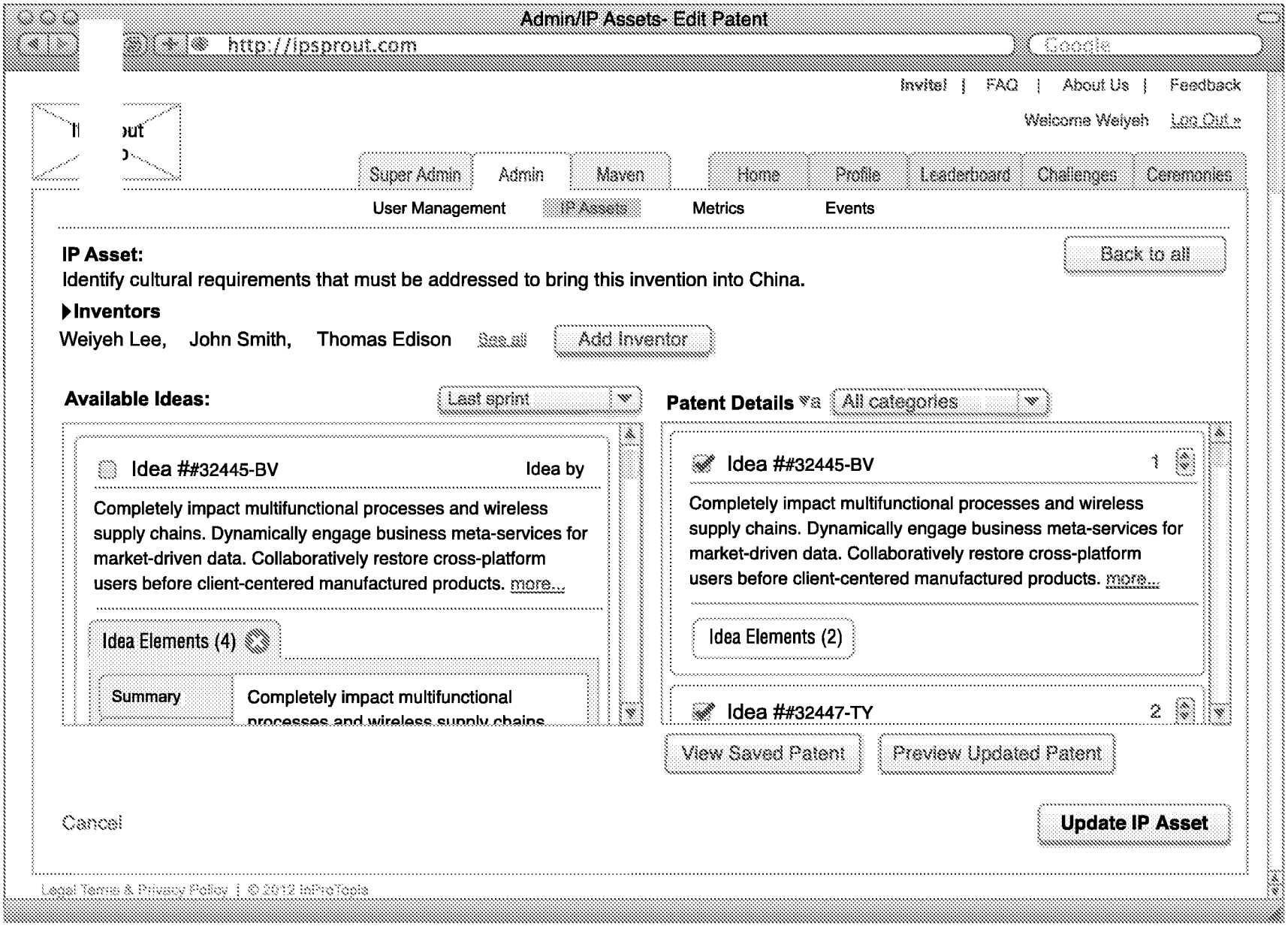
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Identify cultural requirements that must be addressed to bring this invention into China.
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Weiyeh Lee, John Smith, Thomas Edison
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Idea by
Completely impact multifunctional processes and wireless supply chains. Dynamically engage business meta-services for market-driven data. Collaboratively restore cross-platform users before client-centered manufactured products. more...
Idea Elements (4)
Summary
Completely impact multifunctional processes and wireless supply chains
Idea ##32445-BV
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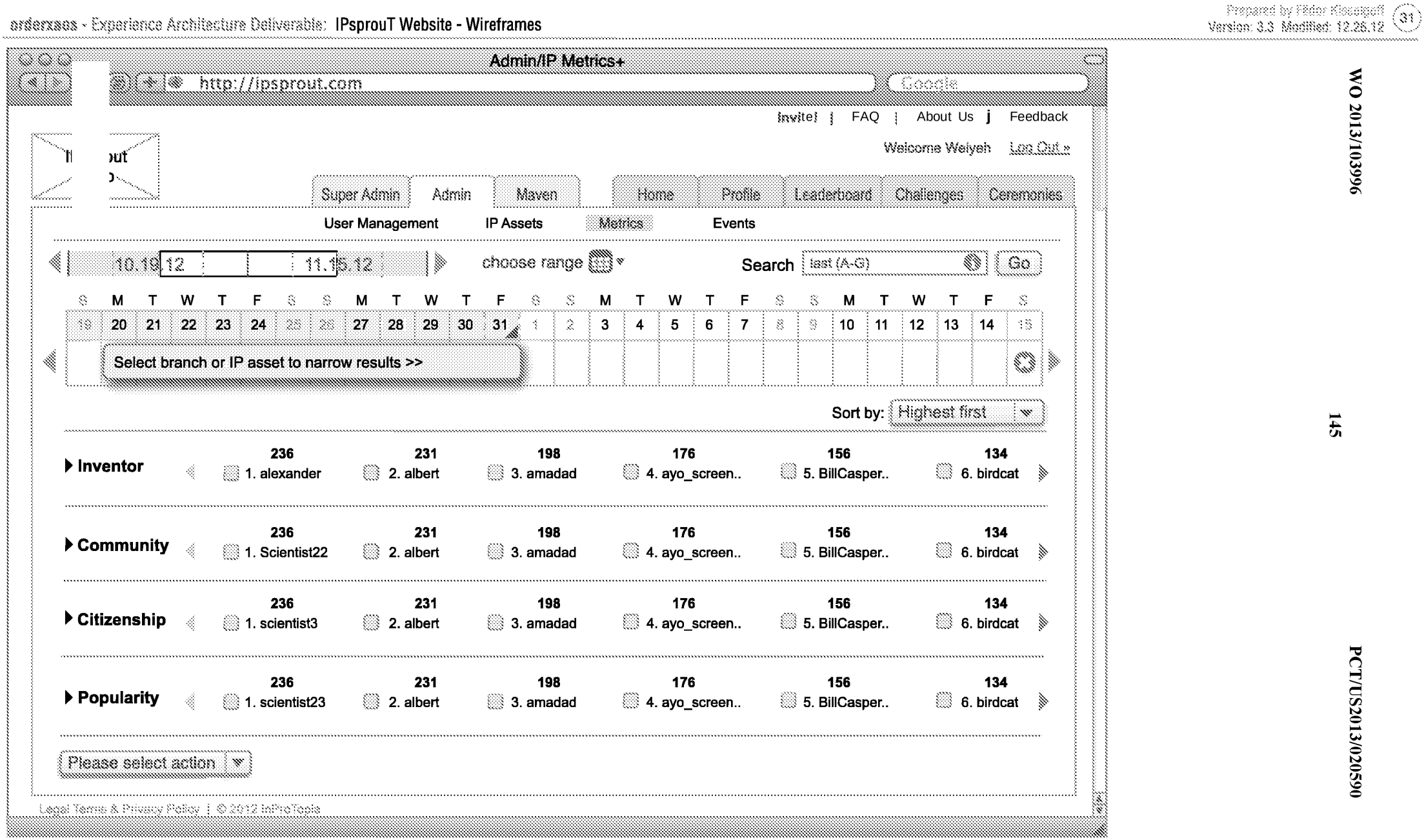
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Inventor
236 1. alexander
231 2. albert
198 3. amadad
176 4. ayo_screen..
156 5. BillCasper..
134 6. birdcat
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236 1. Scientist22
231 2. albert
198 3. amadad
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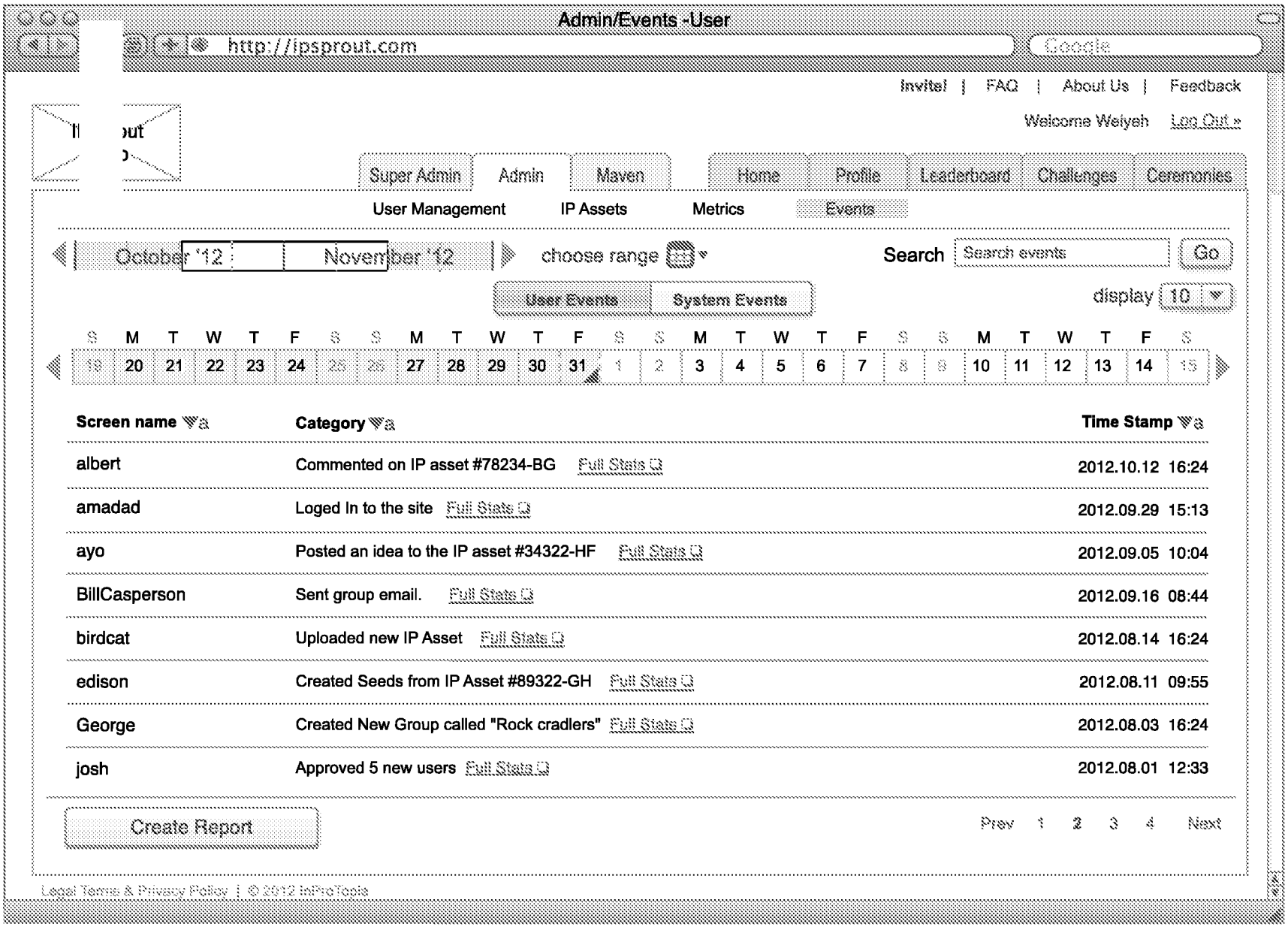
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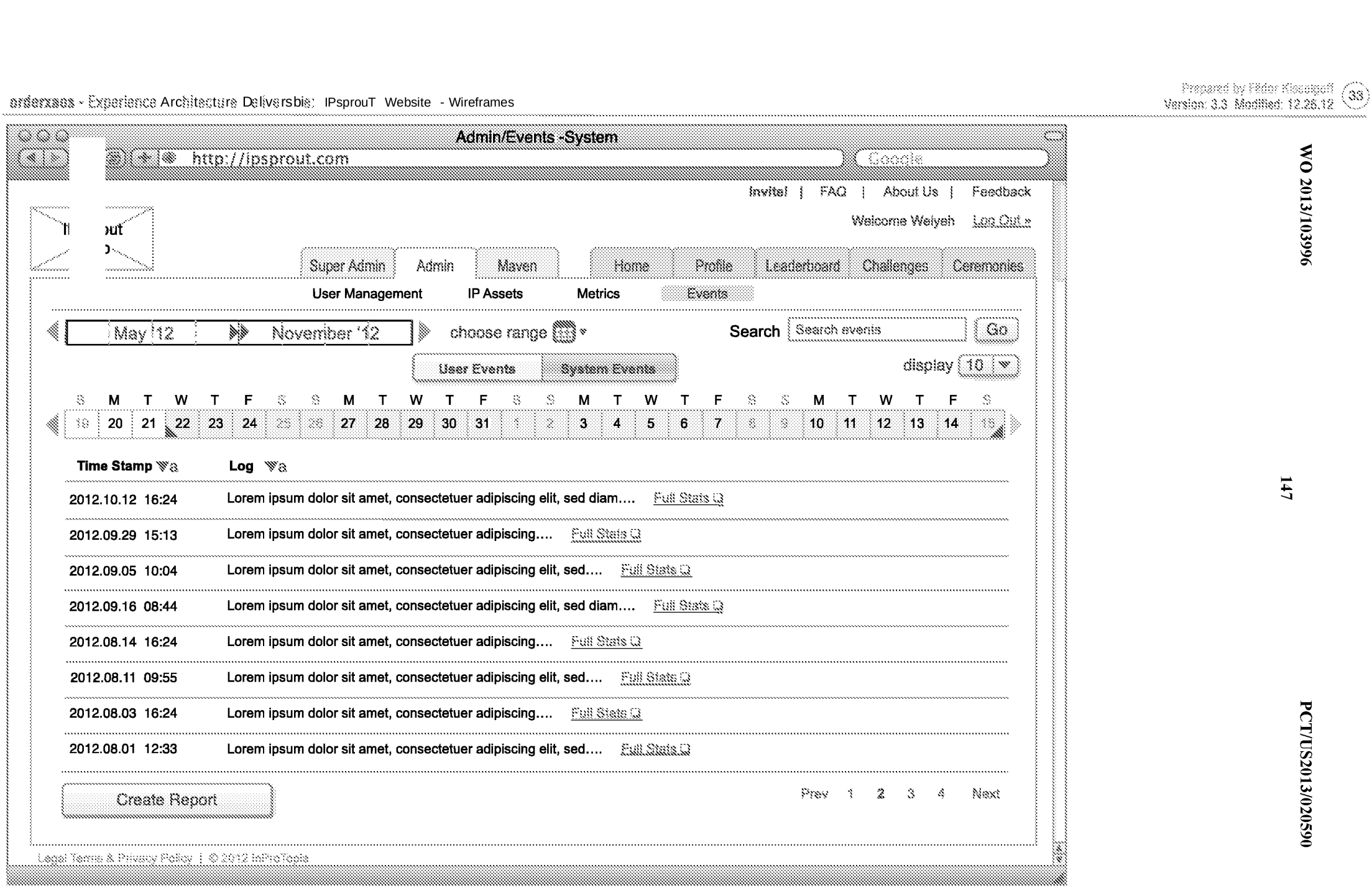
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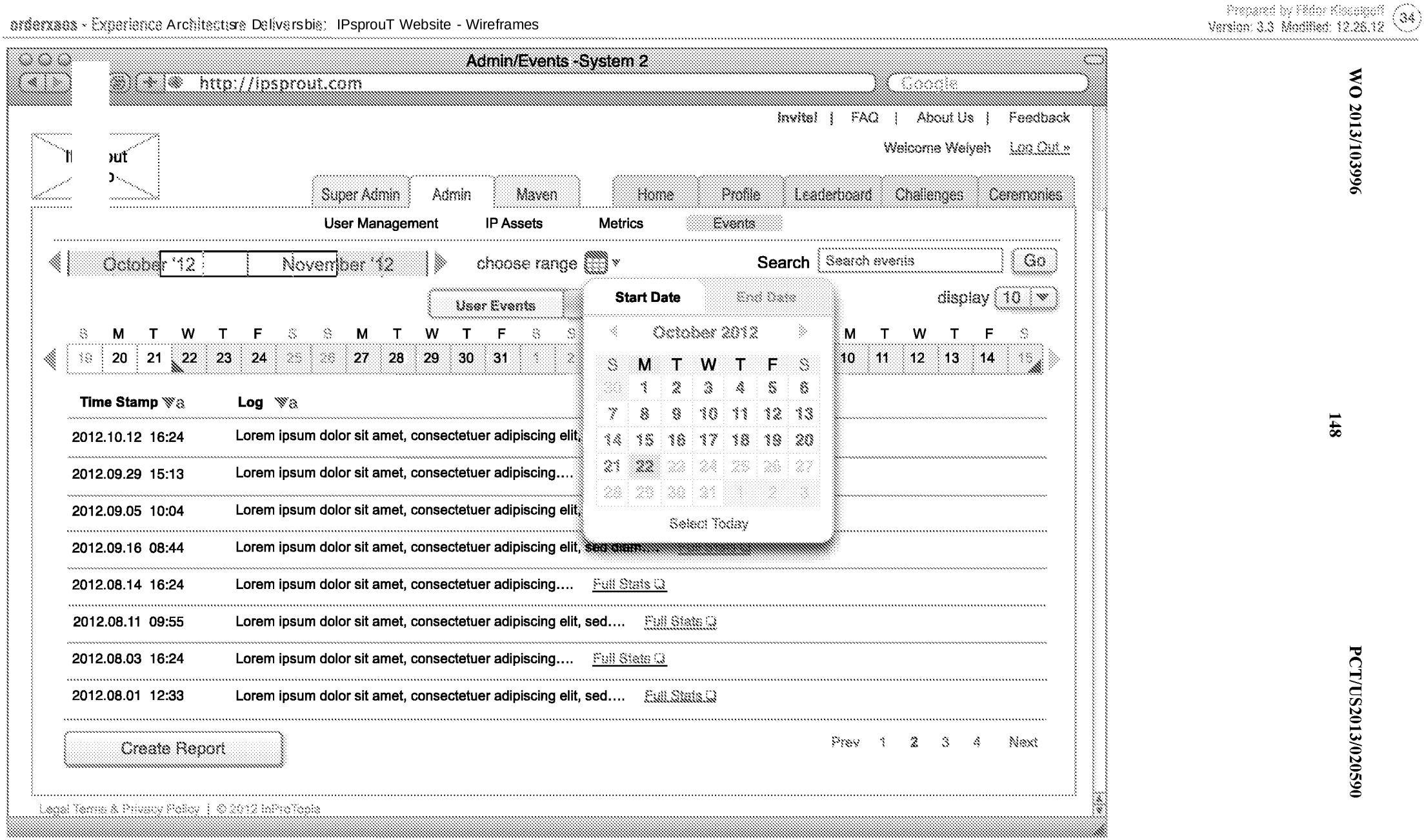
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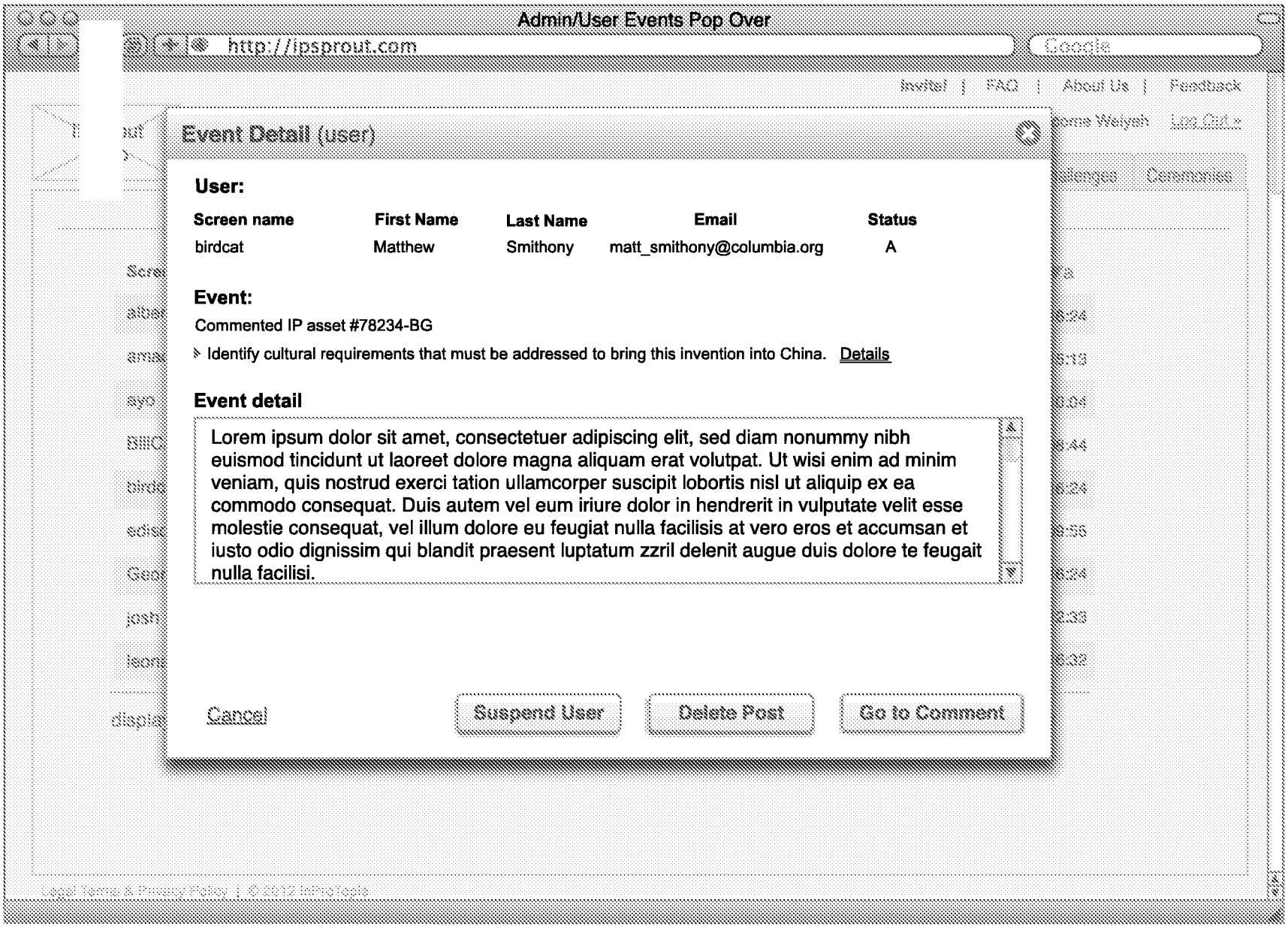

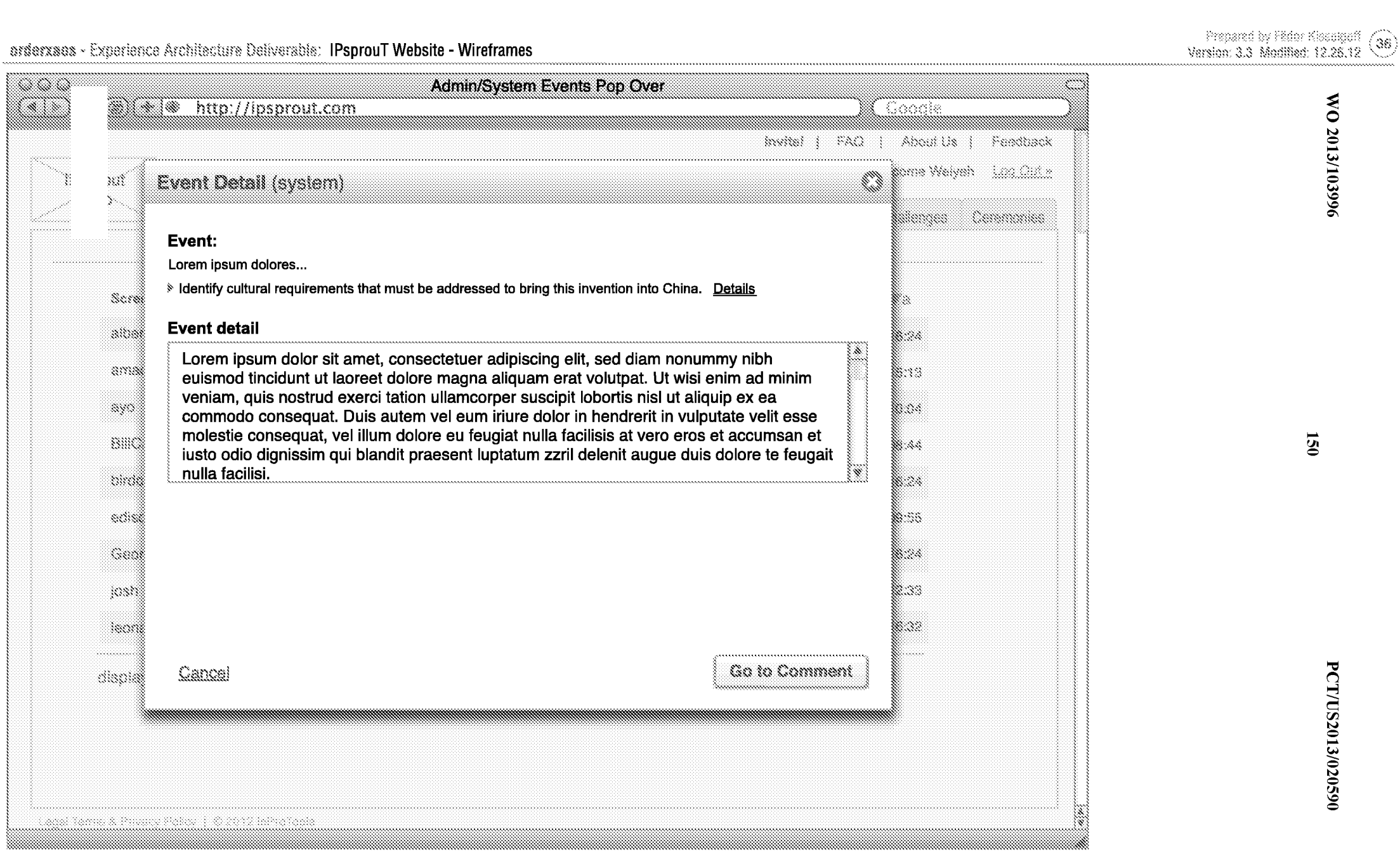
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Event:
Lorem ipsum dolores...
Identify cultural requirements that must be addressed to bring this invention into China. Details
Event detail
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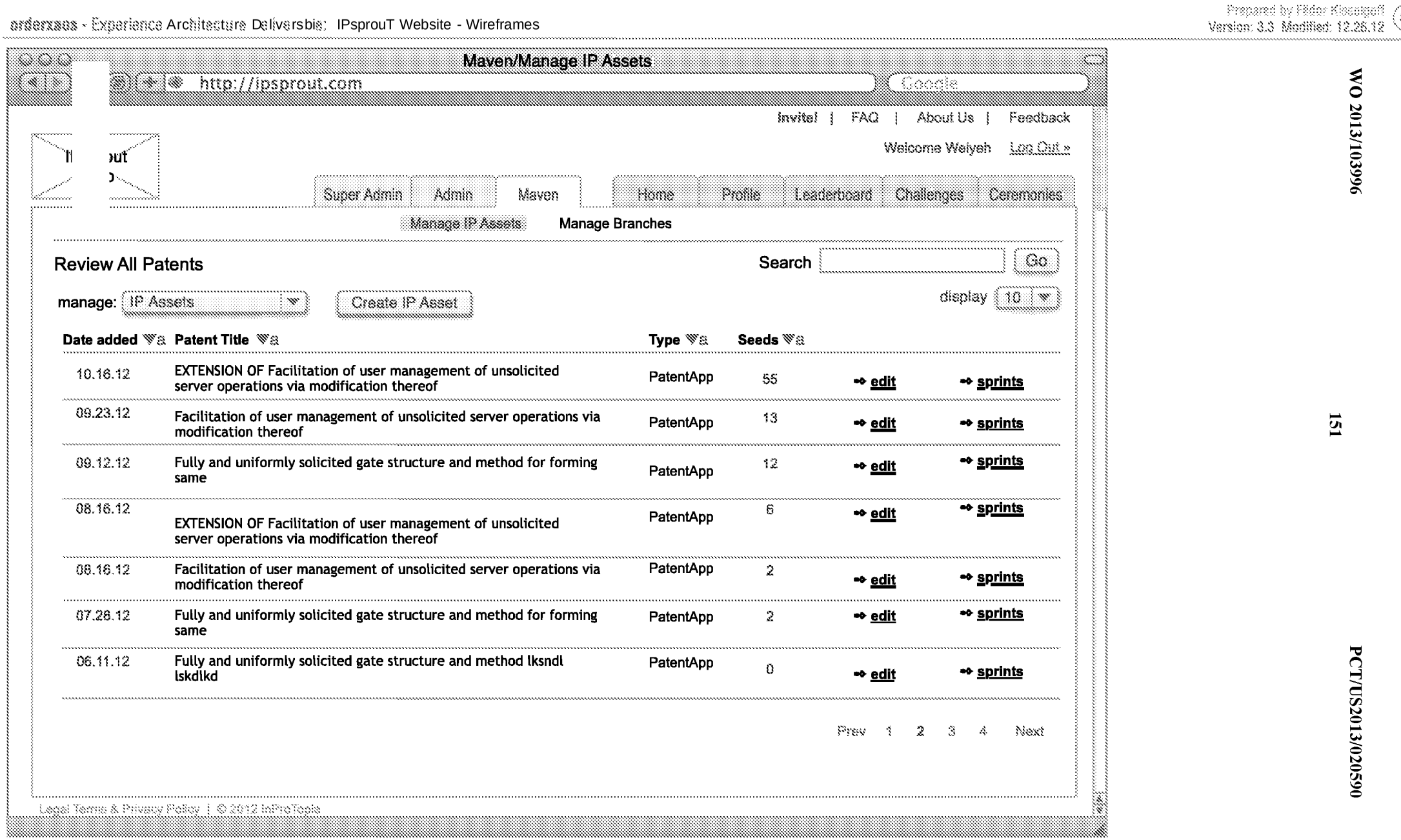
orderxaos - Experience Architecture Deliversbie: IPsprouT Website - Wireframes
Prepared by Fildor Kiesselgoff
Version: 3.3 Modified: 12.26.12
37
Maven/Manage IP Assets
http://ipsprout.com
Google
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Welcome Weiyeh Log Out »
Super Admin
Admin
Maven
Home
Profile
Leaderboard
Challenges
Ceremonies
Manage IP Assets
Manage Branches
Review All Patents
Search
Go
manage: IP Assets
Create IP Asset
display 10
Date added
Patent Title
Type
Seeds
10.16.12 EXTENSION OF Facilitation of user management of unsolicited server operations via modification thereof PatentApp 55 edit sprints
09.23.12 Facilitation of user management of unsolicited server operations via modification thereof PatentApp 13 edit sprints
09.12.12 Fully and uniformly solicited gate structure and method for forming same PatentApp 12 edit sprints
08.16.12 EXTENSION OF Facilitation of user management of unsolicited server operations via modification thereof PatentApp 6 edit sprints
08.16.12 Facilitation of user management of unsolicited server operations via modification thereof PatentApp 2 edit sprints
07.28.12 Fully and uniformly solicited gate structure and method for forming same PatentApp 2 edit sprints
06.11.12 Fully and uniformly solicited gate structure and method lksndl lskdlkd PatentApp 0 edit sprints
Prev 1 2 3 4 Next
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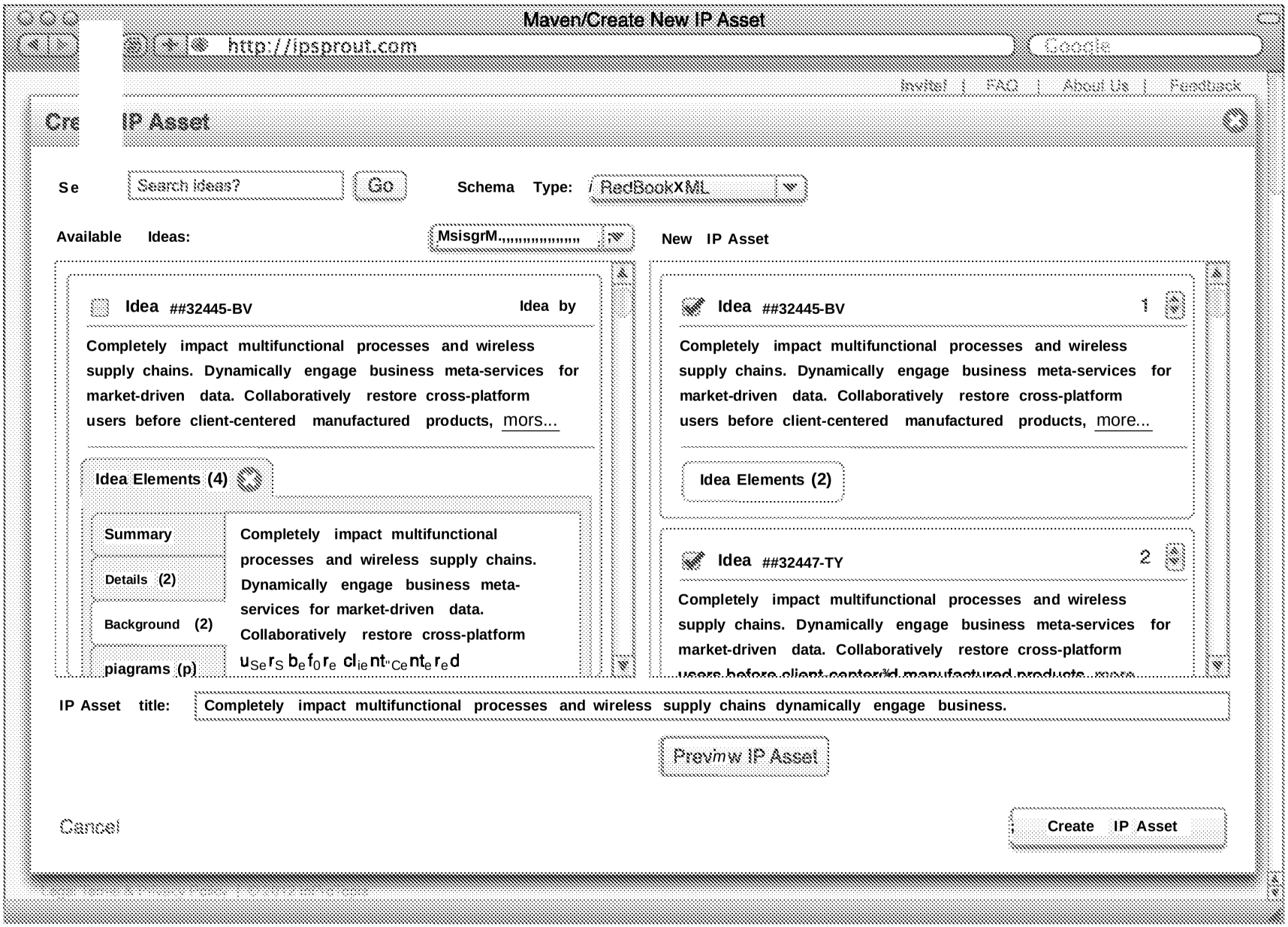
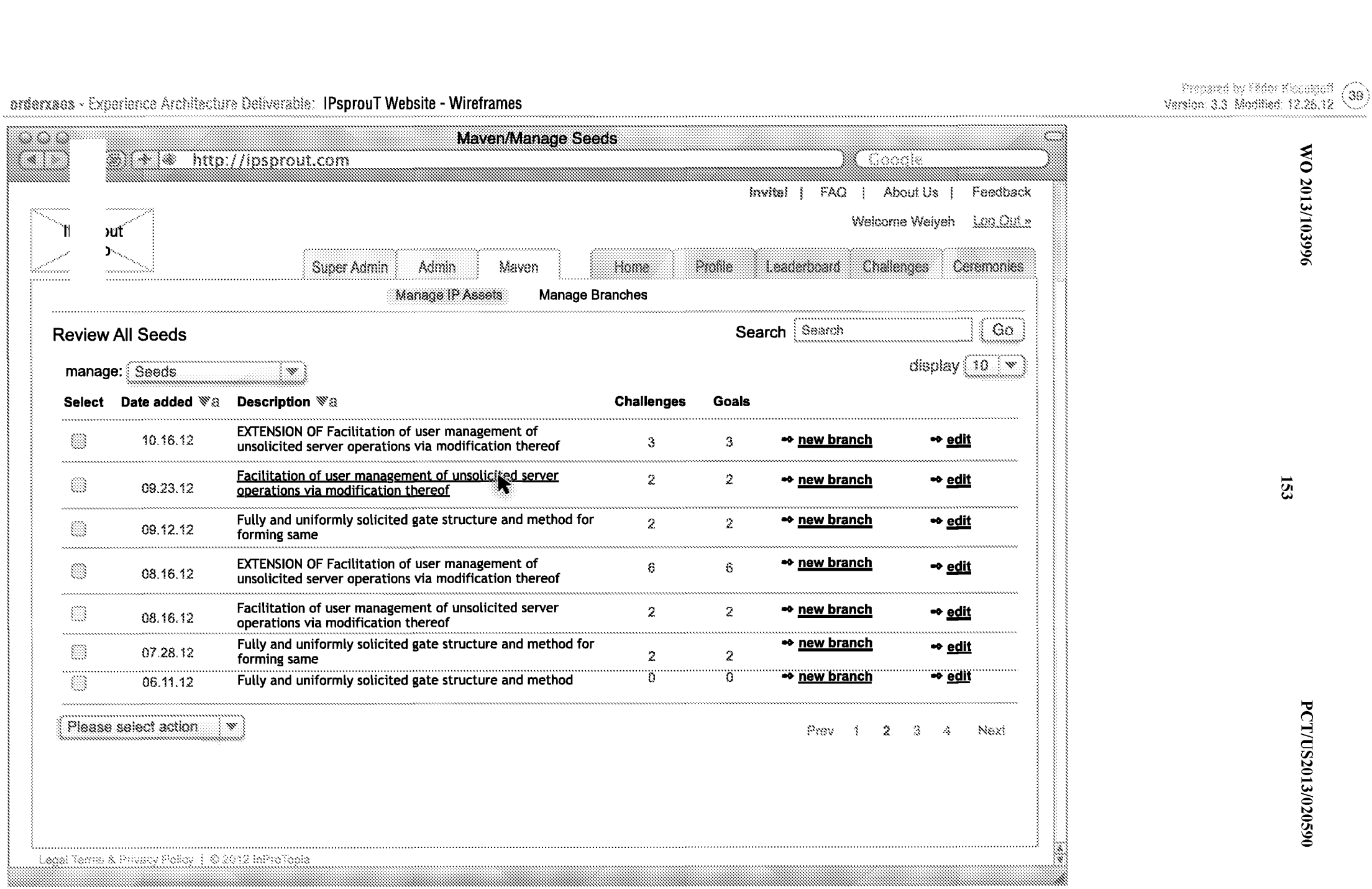


WO 2013/103996 PCT/US2013/020590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Prepared by Fildor Kiosoigoff
Version: 3.3 Modified: 12.26.12
39
Maven/Manage Seeds
http://ipsprout.com
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Welcome Weiyeh Log Out »
Super Admin
Admin
Maven
Home
Profile
Leaderboard
Challenges
Ceremonies
Manage IP Assets
Manage Branches
Review All Seeds
Search
Search
Go
manage: Seeds
display 10
Select
Date added
Description
Challenges
Goals
10.16.12 EXTENSION OF Facilitation of user management of unsolicited server operations via modification thereof 3 3 new branch edit
09.23.12 Facilitation of user management of unsolicited server operations via modification thereof 2 2 new branch edit
09.12.12 Fully and uniformly solicited gate structure and method for forming same 2 2 new branch edit
08.16.12 EXTENSION OF Facilitation of user management of unsolicited server operations via modification thereof 6 6 new branch edit
08.16.12 Facilitation of user management of unsolicited server operations via modification thereof 2 2 new branch edit
07.28.12 Fully and uniformly solicited gate structure and method for forming same 2 2 new branch edit
06.11.12 Fully and uniformly solicited gate structure and method 0 0 new branch edit
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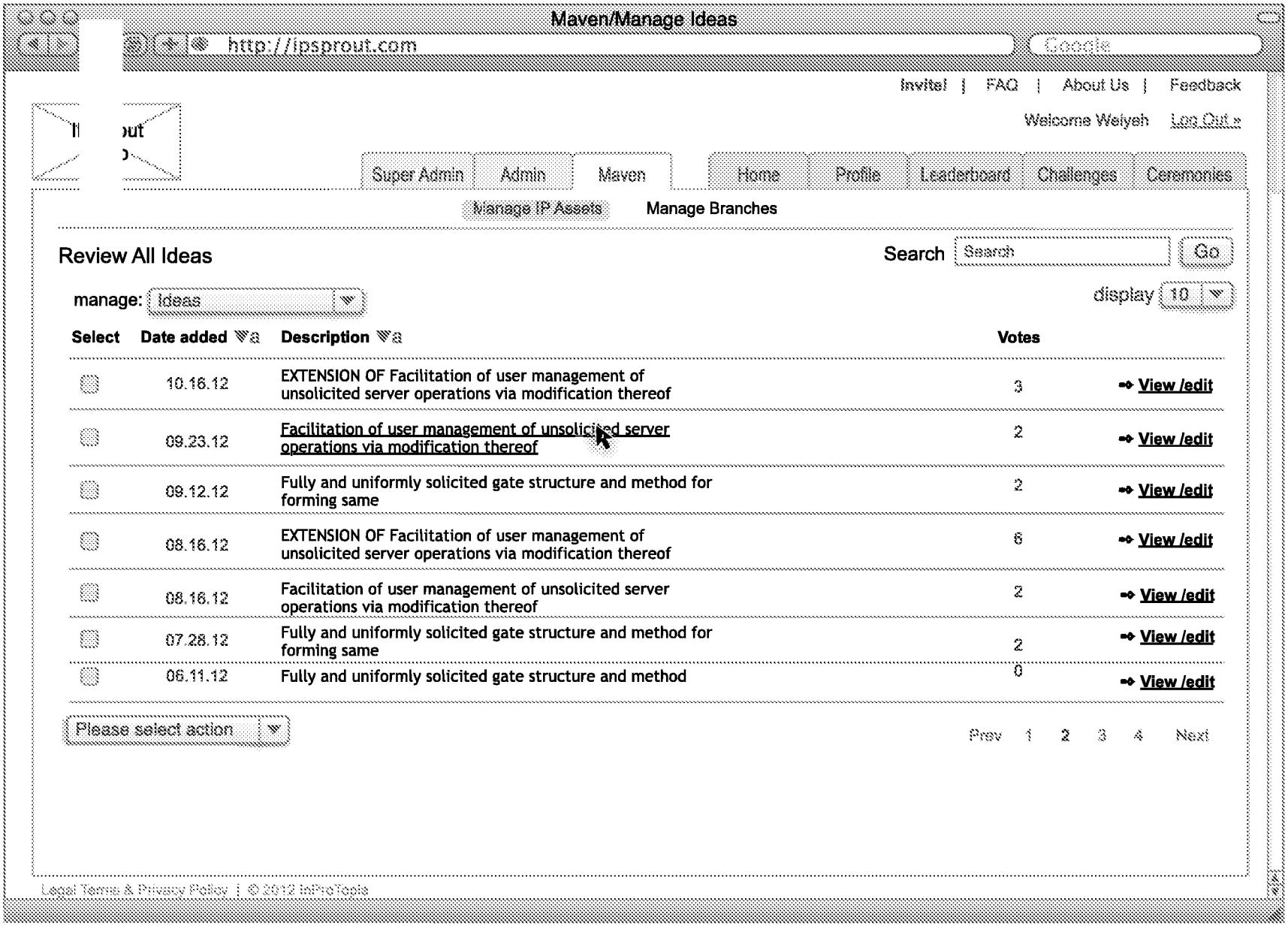

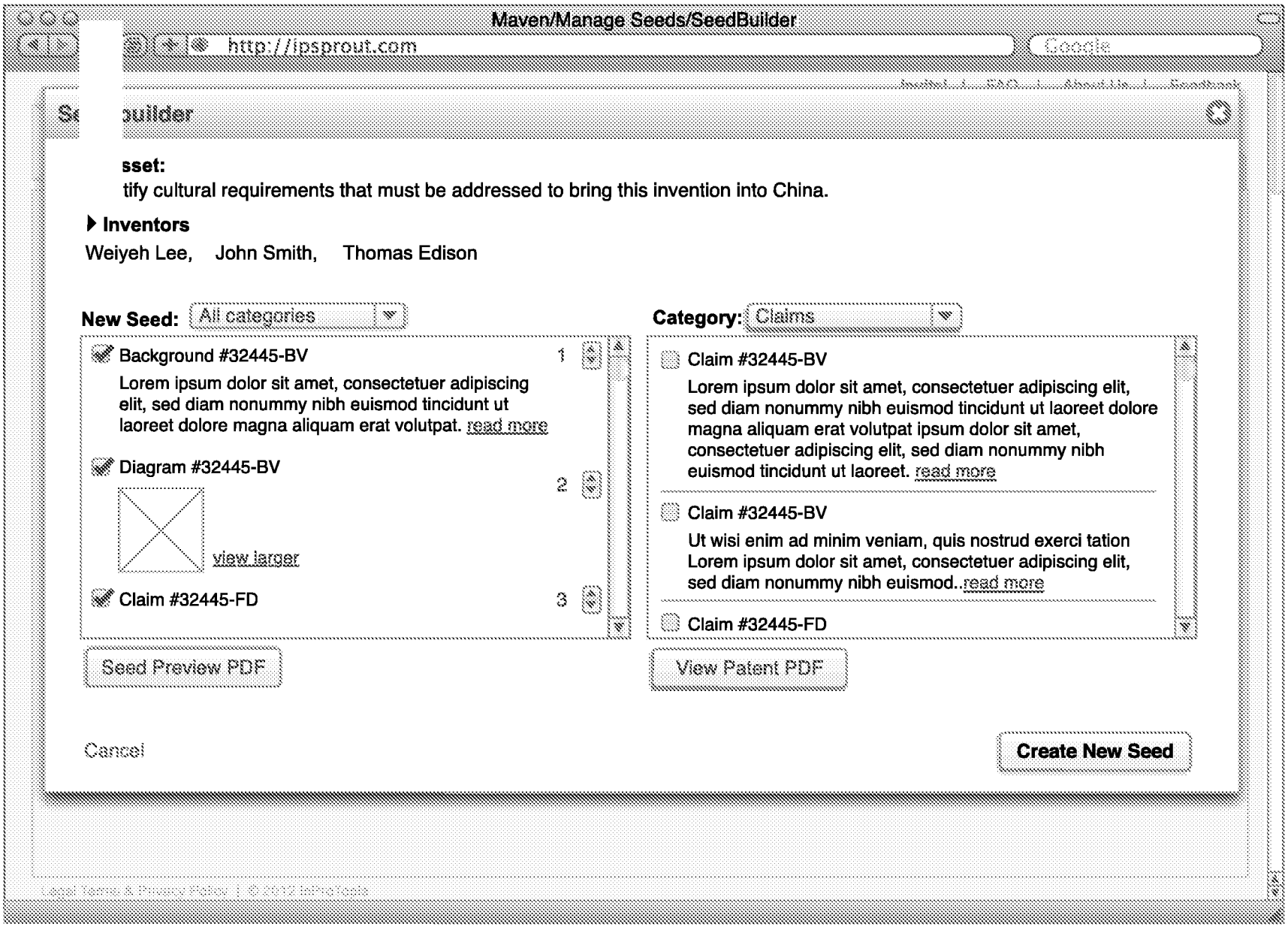

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155
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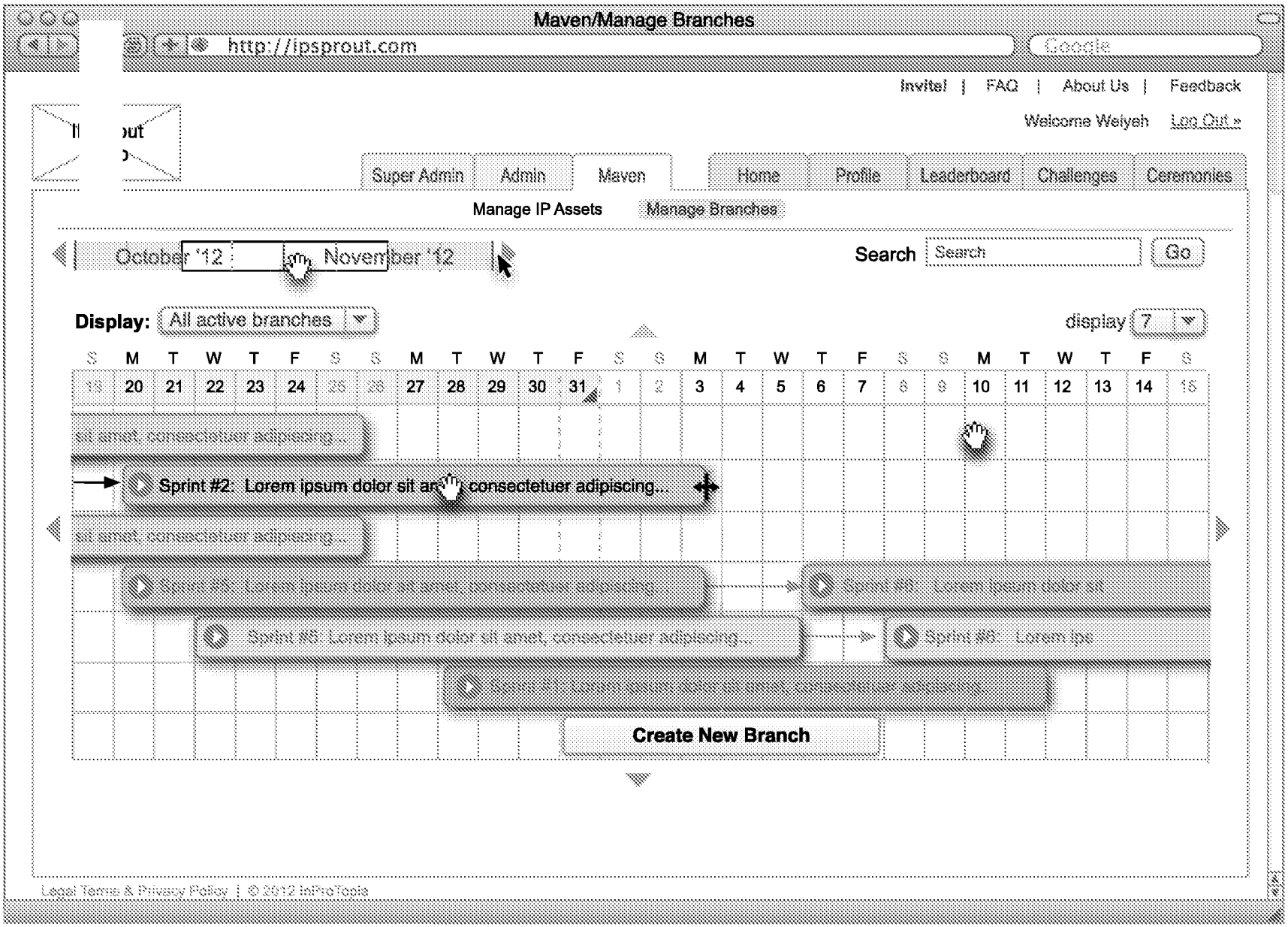
Version: 3.3 Modified: 12.26.12 42



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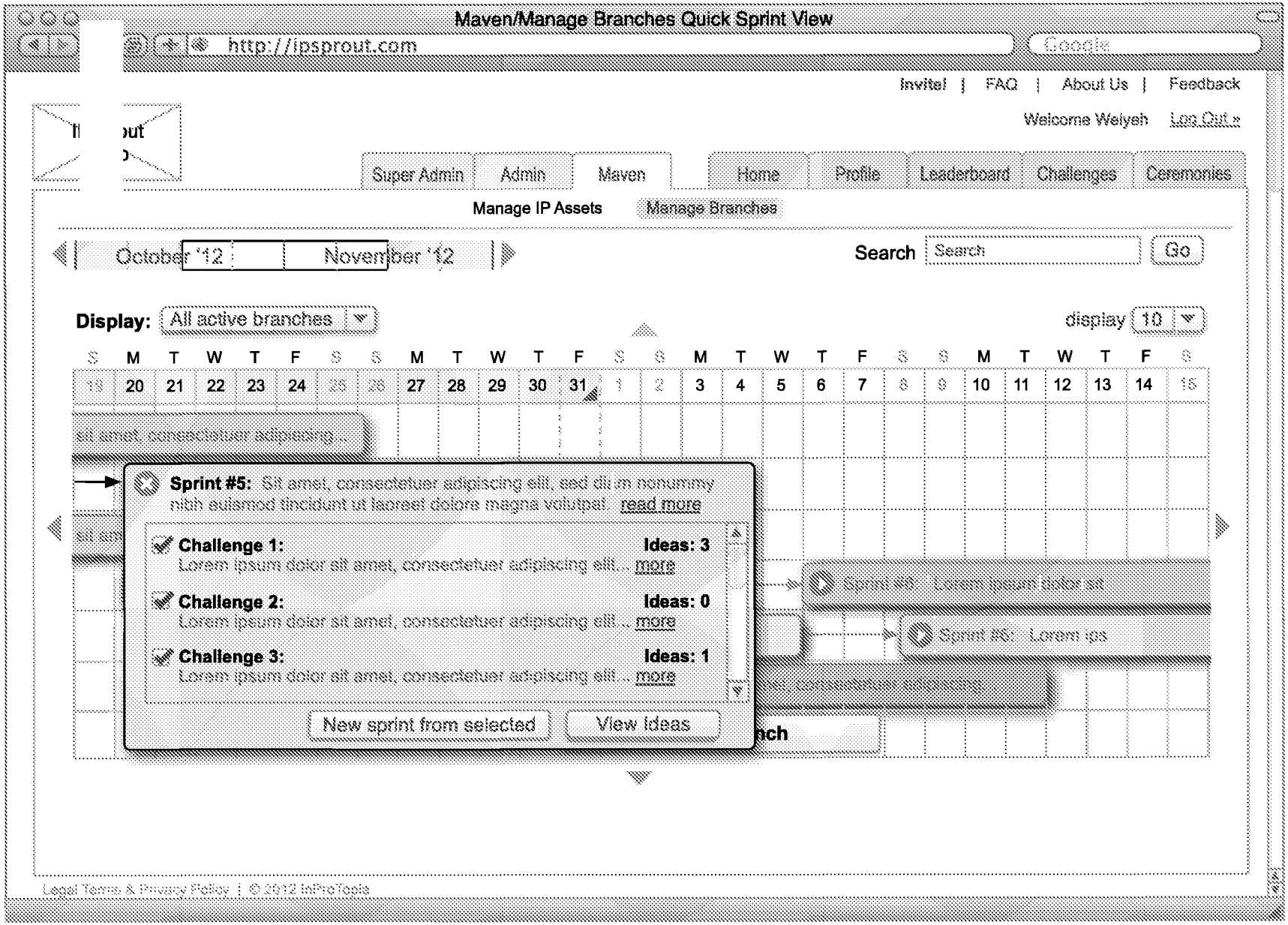
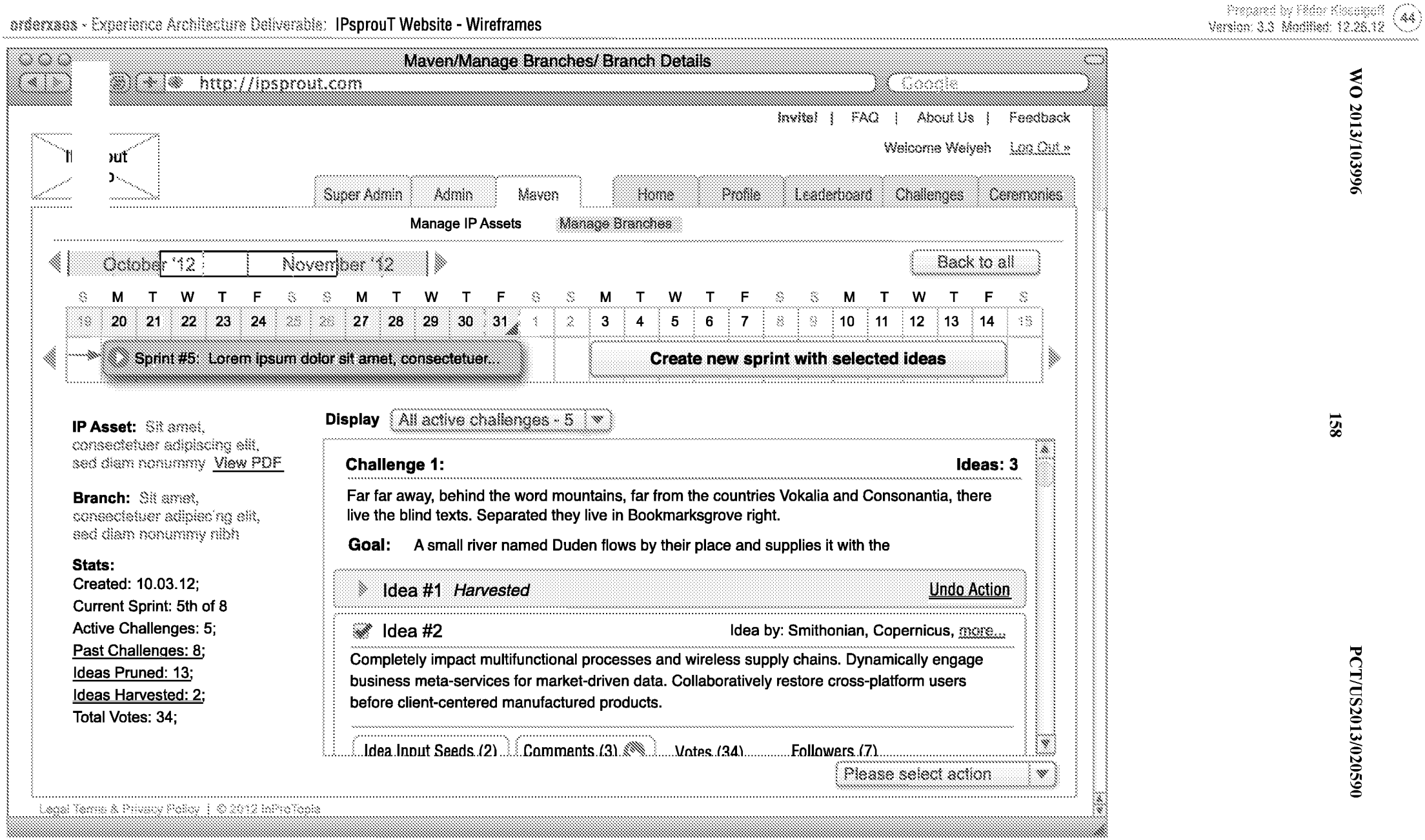
Version: 3.3 Modified: 12.26.12
43

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Prepared by Fëdor Kisselgoff
Version: 3.3 Modified: 12.26.12
44
Maven/Manage Branches/ Branch Details
http://ipsprout.com
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Welcome Welyeh Log Out »
Super Admin
Admin
Maven
Home
Profile
Leaderboard
Challenges
Ceremonies
Manage IP Assets
Manage Branches
October '12
November '12
Back to all
S M T W T F S S M T W T F S S M T W T F S S M T W T F S
19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Sprint #5: Lorem ipsum dolor sit amet, consectetuer...
Create new sprint with selected ideas
IP Asset: Sit amet, consectetuer adipiscing elit, sed diam nonummy View PDF
Branch: Sit amet, consectetuer adipiscing elit, sed diam nonummy nibh
Stats:
Created: 10.03.12;
Current Sprint: 5th of 8
Active Challenges: 5;
Past Challenges: 8;
Ideas Pruned: 13;
Ideas Harvested: 2;
Total Votes: 34;
Display All active challenges - 5
Challenge 1: Ideas: 3
Far far away, behind the word mountains, far from the countries Vokalia and Consonantia, there live the blind texts. Separated they live in Bookmarksgrove right.
Goal: A small river named Duden flows by their place and supplies it with the
Idea #1 Harvested Undo Action
Idea #2 Idea by: Smithonian, Copernicus, more...
Completely impact multifunctional processes and wireless supply chains. Dynamically engage business meta-services for market-driven data. Collaboratively restore cross-platform users before client-centered manufactured products.
Idea Input Seeds (2)
Comments (3)
Votes (34)
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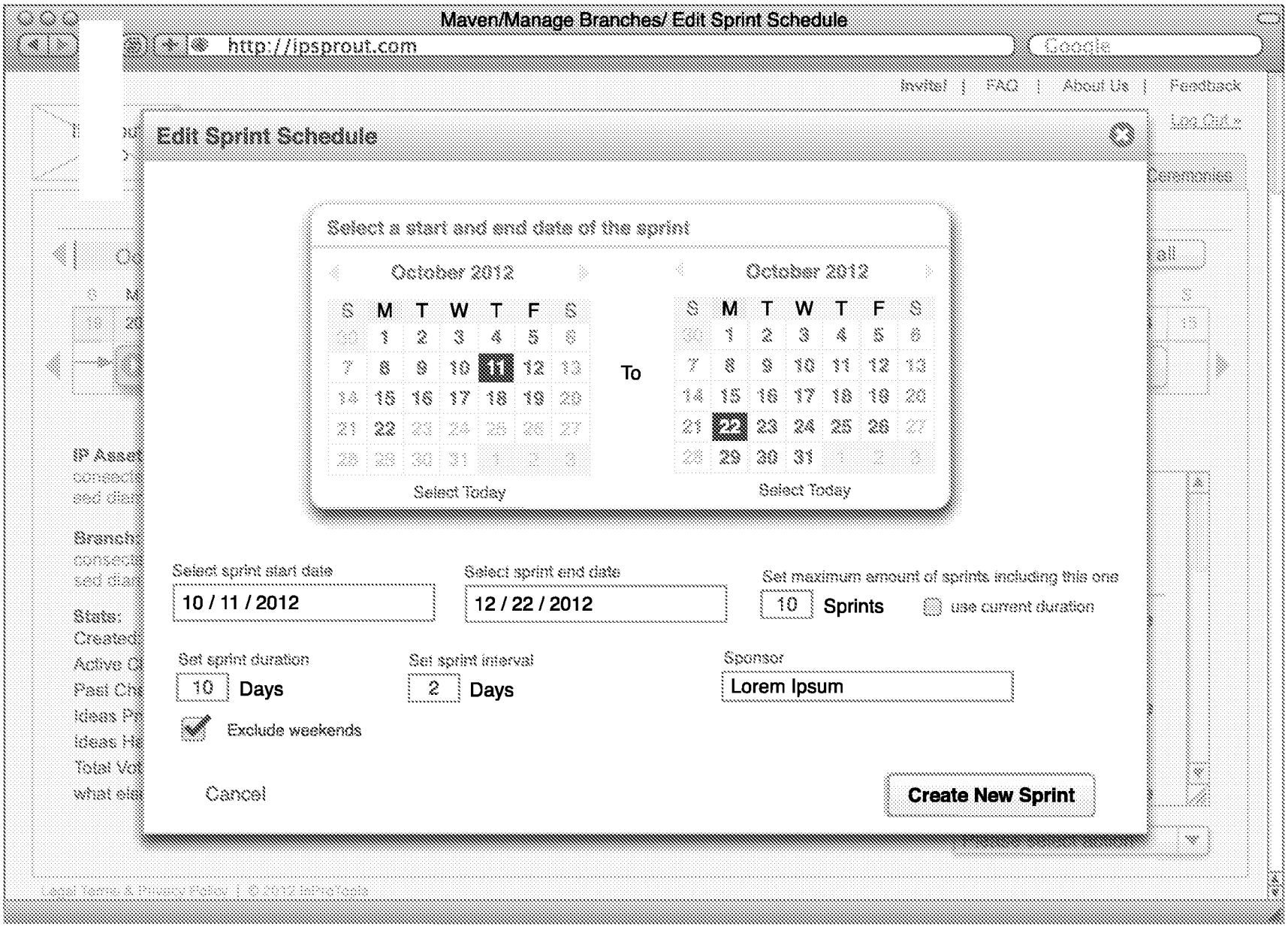
Prepared by Fëdor Kisselgoff
Version: 3.3 Modified: 12.26.12 45



Claims:

1. A crowd sourced platform for intangible assets, comprising:

a computer system having a processor and a memory;

a store, associated with the computer system, that receives a plurality of atomic components of the intangible asset;

a seed creation system, hosted on the computer system, that generates one or more seeds from the plurality of atomic components of the intangible asset;

a challenge management system, hosted on the computer system, that manages a plurality of challenges, each of the challenges being participated in by a plurality of crowd members using the one or more created seeds; and

an intangible assert generation system, hosted on the computer system, that generates one or more additional tangible assets based on the challenge.

2. The platform of claim 1 further comprising a patent defense system, hosted on the computer system, that manages a defense of a filed intangible asset.

3. The platform of claim 1, wherein the intangible asset is one of a patent, a defensive publication, a piece of copyrightable material, a trademark, a service mark and a piece of prior art.

4. The platform of claim 1 further comprising an intangible asset filing system, hosted on the computer system, that files the generated intangible asset.

5. The platform of claim 4, wherein the intangible asset is a patent and the intangible asset filing system is a patent filing system.

6. The platform of claim 1, wherein the computer system is one of one or more server computer and one or more cloud computing resources.

7. The platform of claim 1 further comprising an intangible asset loading system that loads the intangible asset by the plurality of atomic components of the intangible asset.

8. The platform of claim 1, wherein each atomic component is one of a paragraph, a diagram, a reference and a molecule definition.

9. The platform of claim 7, wherein the intangible asset loading system is a patent loading system and wherein the plurality of atomic components are one of a paragraph, a diagram and a reference.

10. The platform of claim 1 further comprising a maven system, hosted on the computer system, that allows an expert to manage the plurality of crowd members.

11. The platform of claim 1, wherein the challenge management system manages one or more challenges that are available to each crowd member based on a set of crowd member characteristics.

12. A method, comprising:

receiving a plurality of atomic components of the intangible asset;

creating, using a seed creation system, one or more seeds from the plurality of atomic components of the intangible asset;

managing, using a challenge management system, a plurality of challenges, each of the challenges being participated in by a plurality of crowd members using the one or more created seeds; and

generating, using an intangible assert generation system, one or more additional tangible assets based on the challenge.

13. The method of claim 12 further comprising managing, using a patent defense system, a defense of a filed intangible asset.

14. The method of claim 12, wherein the intangible asset is one of a patent, a defensive publication, a piece of copyrightable material, a trademark, a service mark and a piece of prior art.

15. The method of claim 12 further comprising filing, using an intangible asset filing system, the generated intangible asset.

16. The method of claim 15, wherein the intangible asset is a patent and wherein filing the intangible asset further comprising filing the patent.

17. The method of claim 12 further comprising loading, using an intangible asset loading system, the intangible asset by the plurality of atomic components of the intangible asset.

18. The method of claim 12, wherein each atomic component is one of a paragraph, a diagram, a reference and a molecule definition.

19. The method of claim 17, wherein loading the intangible asset further comprises loading a patent and wherein the plurality of atomic components are one of a paragraph, a diagram and a reference.

20. The method of claim 12 further comprising managing, using a maven system, the plurality of crowd members by an expert.

21. The method of claim 12, wherein managing the challenges further comprises managing the one or more challenges that are available to each crowd member based on a set of crowd member characteristics.

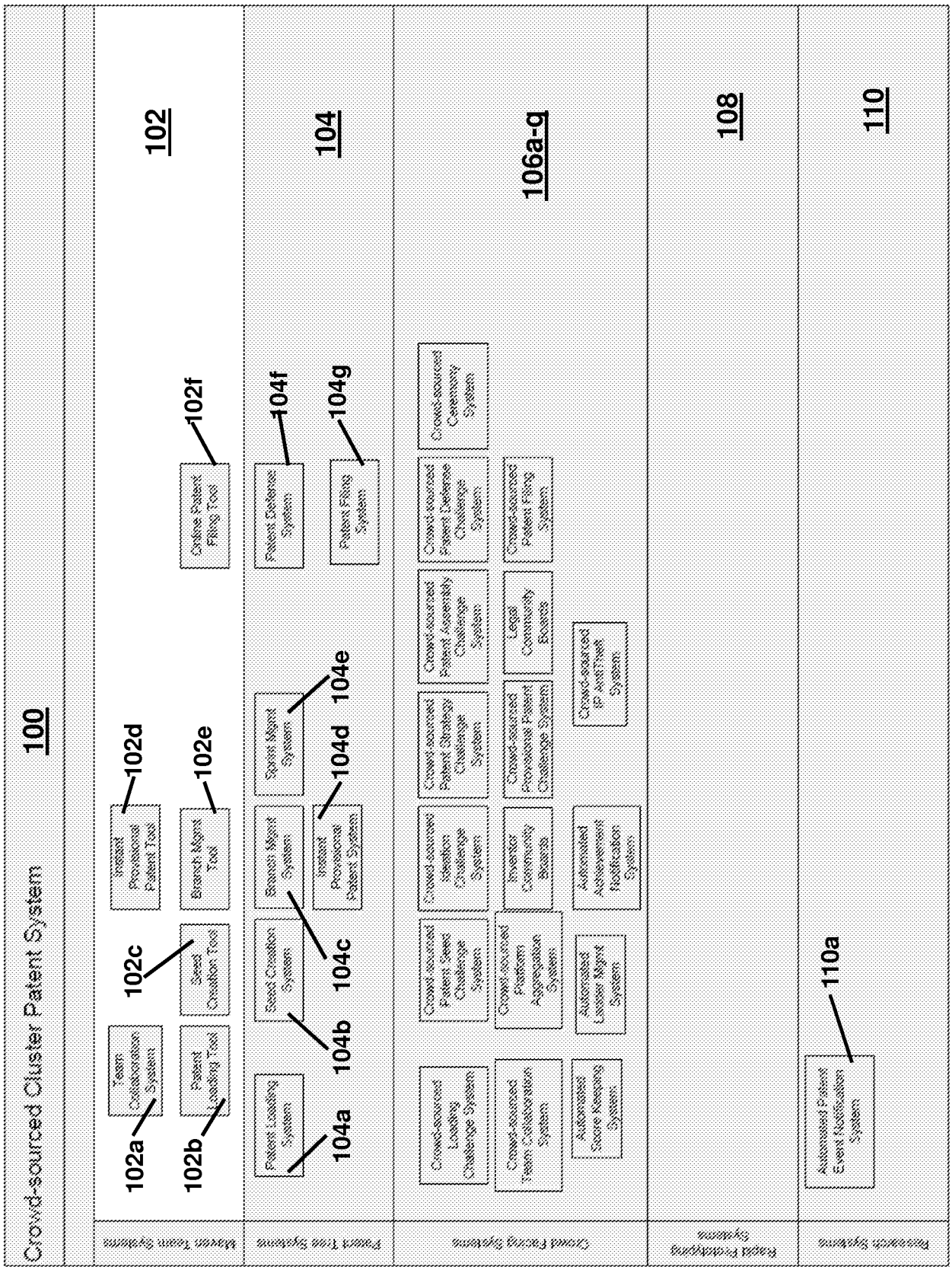

Crowd-sourced Cluster Patent System
100
102
104
106a-g
108
110
Team Collaboration System
Patent Loading Tool
Instant Provisional Patent Tool
Seed Creation Tool
Branch Mgmt Tool
Online Patent Filing Tool
Patent Loading System
Seed Creation System
Branch Mgmt System
Instant Provisional Patent System
Spoke Mgmt System
Patent Defense System
Patent Filing System
Crowd-sourced Loading Challenge System
Crowd-sourced Team Collaboration System
Automated Store Keeping System
Crowd-sourced Patent Seed Challenge System
Crowd-sourced Platform Aggregation System
Automated Legal Mgmt System
Crowd-sourced Motion Challenge System
Inventor Community Board
Automated Assignment Notification System
Crowd-sourced Patent Strategy Challenge System
Crowd-sourced Provisional Patent Challenge System
Crowd-sourced IP Joint Think System
Crowd-sourced Patent Assembly Challenge System
Legal Community Board
Crowd-sourced Patent Defense Challenge System
Crowd-sourced Patent Filing System
Crowd-sourced Ceremony System
Automated Patent Event Notification System
102a
102b
102c
102d
102e
102f
104a
104b
104c
104d
104e
104f
104g
110a

FIGURE 1A

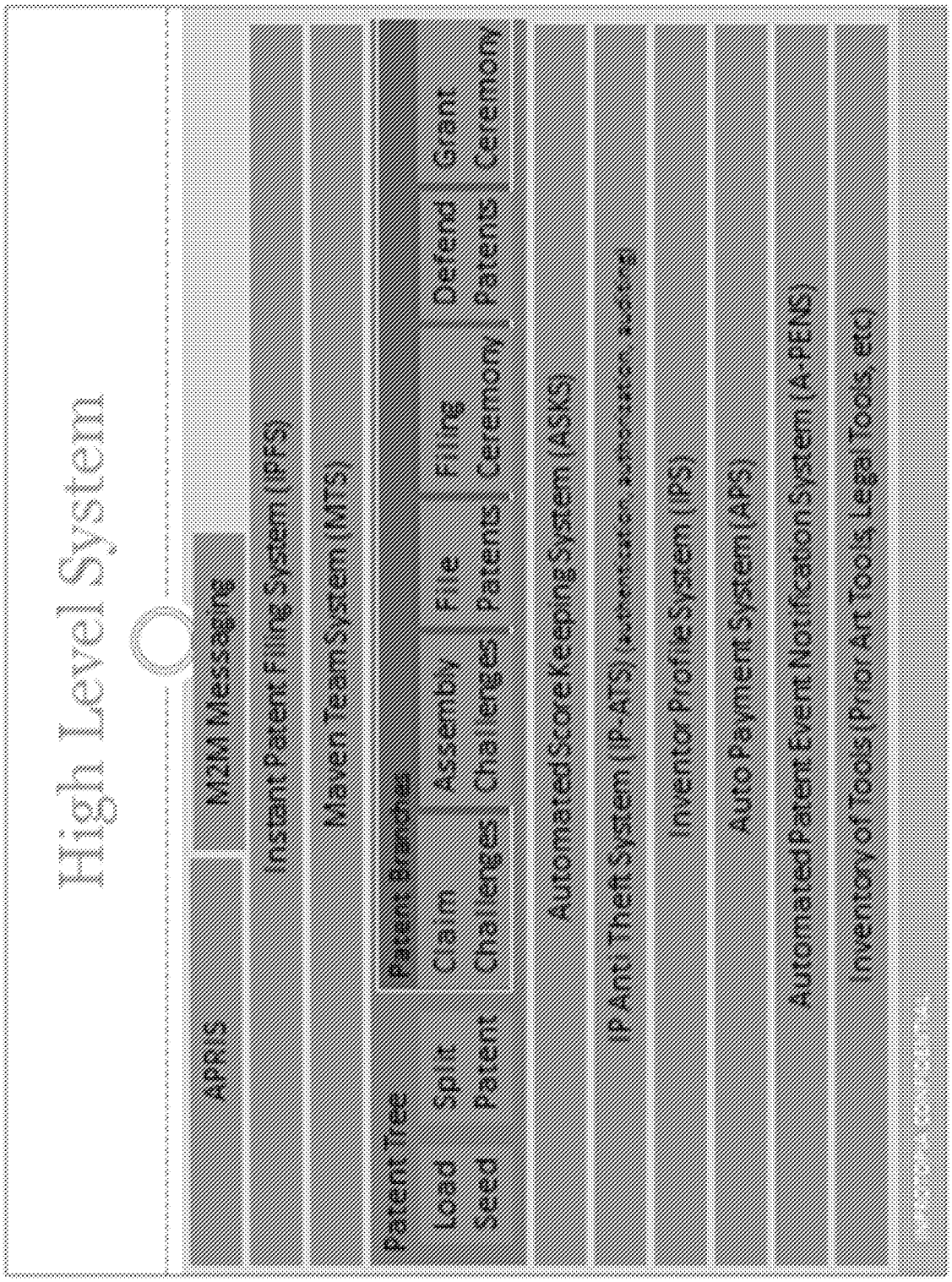

High Level System
APRIS
M2M Messaging
Instant Patent Filing System (IPFS)
Maven Team System (MTS)
Patent Tree
Load
Seed
Split
Patent
Patent Branches
Claim
Challenges
Assembly
Challenges
File
Patents
Filing
Ceremony
Defend
Patents
Grant
Ceremony
Automated Score Keeping System (ASKS)
IP Anti Theft System (IP-ATS)
Inventor Profile System (IPS)
Auto Payment System (APS)
Automated Patent Event Notification System (A-PENS)
Inventory of Tools (Prior Art Tools, Legal Tools, etc)

FIGURE 1B

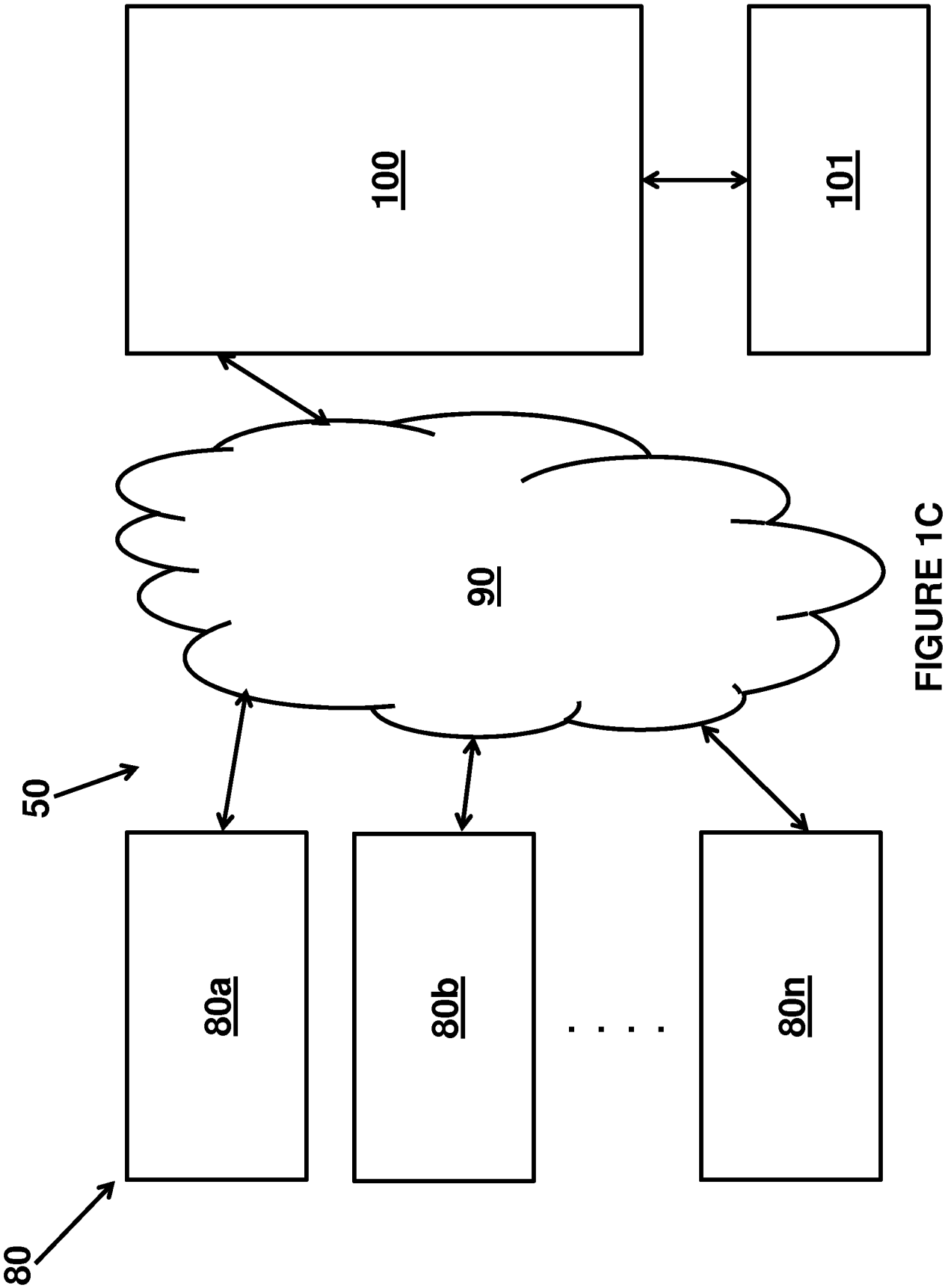


FIGURE 1C

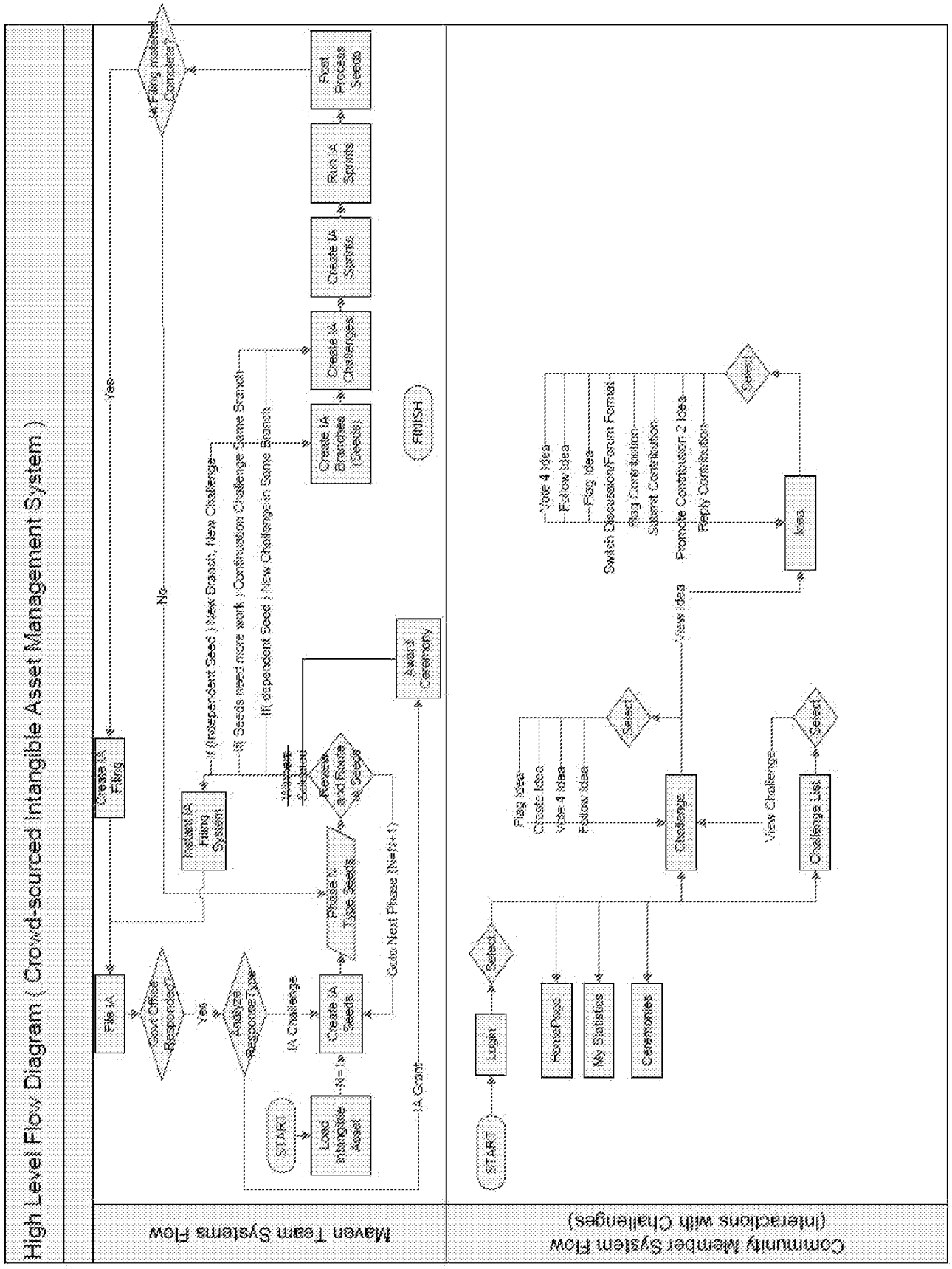

High Level Flow Diagram (Crowd-sourced Intangible Asset Management System)
Maven Team Systems Flow
Community Member System Flow
(Interactions with Challenges)
START
Load Intangible Asset
N=1
IA Challenge
Create IA Seeds
Phase N Type Seeds
Goto Next Phase (N=N+1)
IA Grant
Create IA Filing
Yes
No
Instant IA Filing System
If (Independent Seed) New Branch, New Challenge
If(Seeds need more work) Continuation Challenge Same Branch
If(dependent Seed) New Challenge in Same Branch
Winners Selected
Review and Route IA Seeds
Award Ceremony
Create IA Branches (Seeds)
Create IA Challenges
Create IA Sprints
Run IA Sprints
Post Process Seeds
FINISH
IA Filing material Complete?
File IA
Govt Office Responded?
Yes
Analyze Response Type
START
Login
Select
HomePage
My Statistics
Ceremonies
Challenge
Challenge List
Select
View Challenge
Select
View Idea
Idea
Select
Flag Idea
Create Idea
Vote 4 Idea
Follow Idea
Switch Discussion/Forum Format
Flag Contribution
Submit Contribution
Promote Contribution 2 Idea
Reply Contribution

FIGURE 2

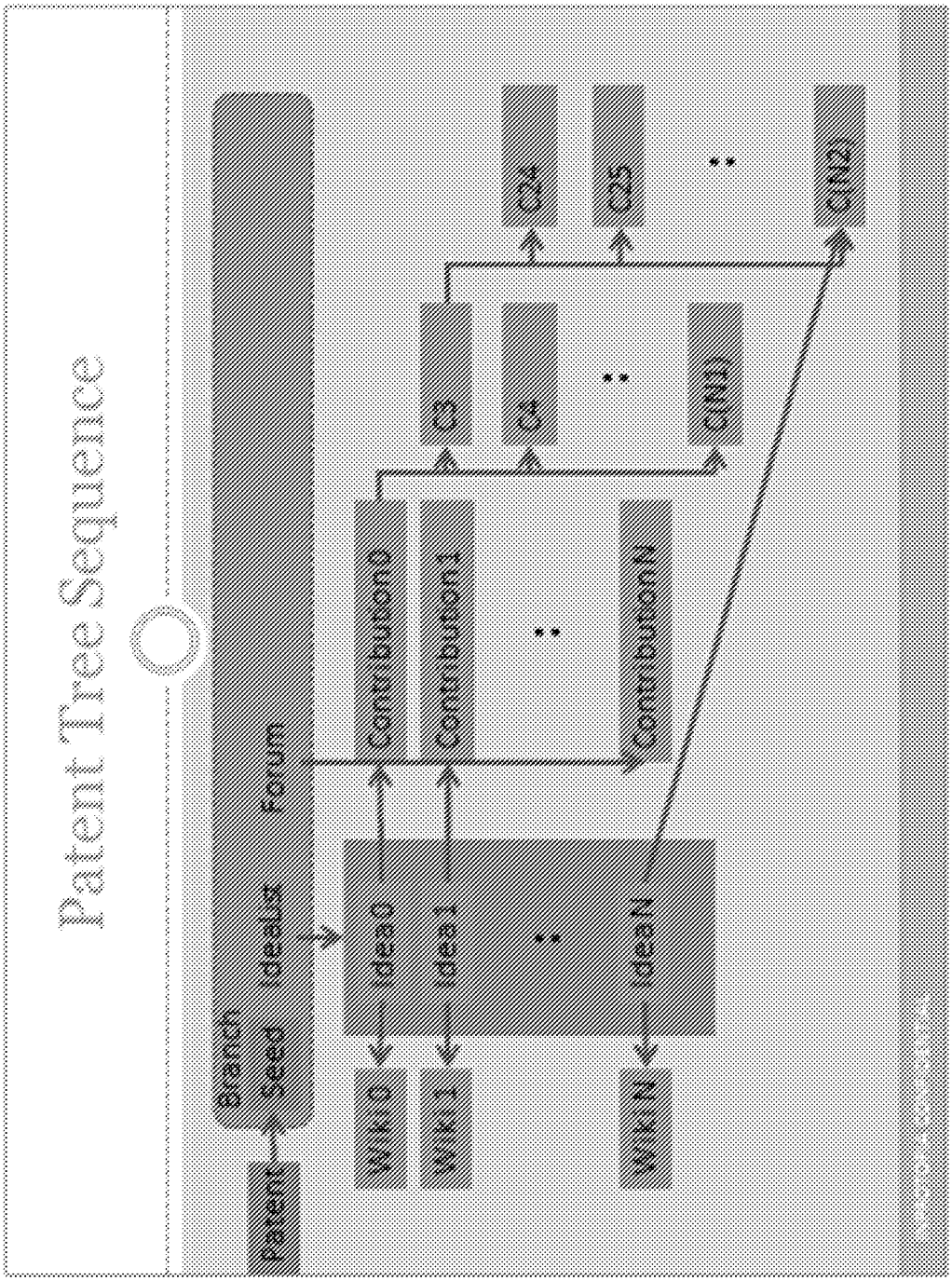
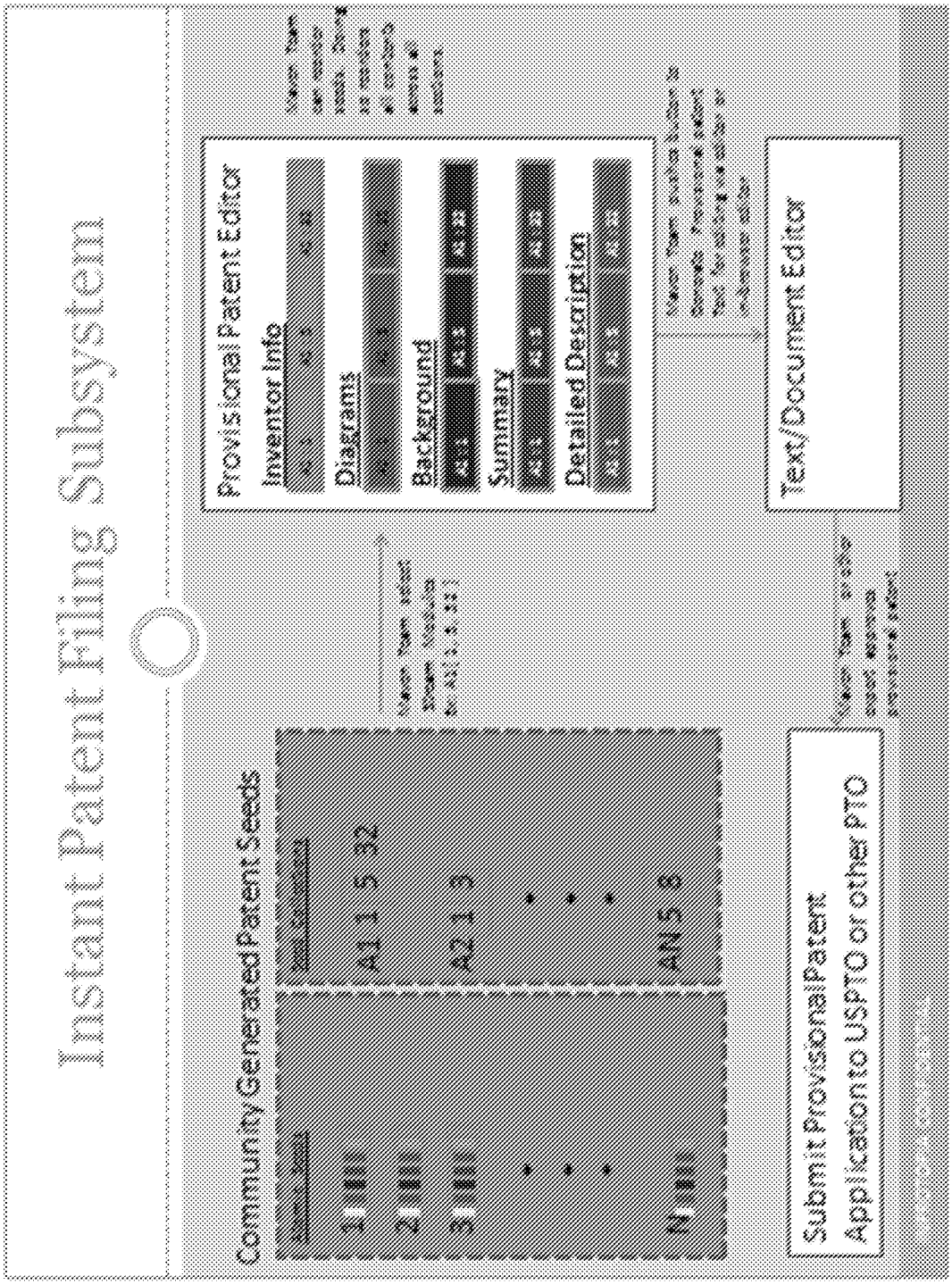

Patent Tree Sequence
patent
seed
deal
forum
deal0
deal1
dealN
Wiki0
Wiki1
WikiN
Contribution0
Contribution1
ContributionN
C0
C1
C2
C3
C4
C5

FIGURE 3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Provisional Patent Editor
Inventor Info
Diagrams
Background
Summary
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Submit Provisional Patent Application to USPTO or other PTO

FIGURE 4

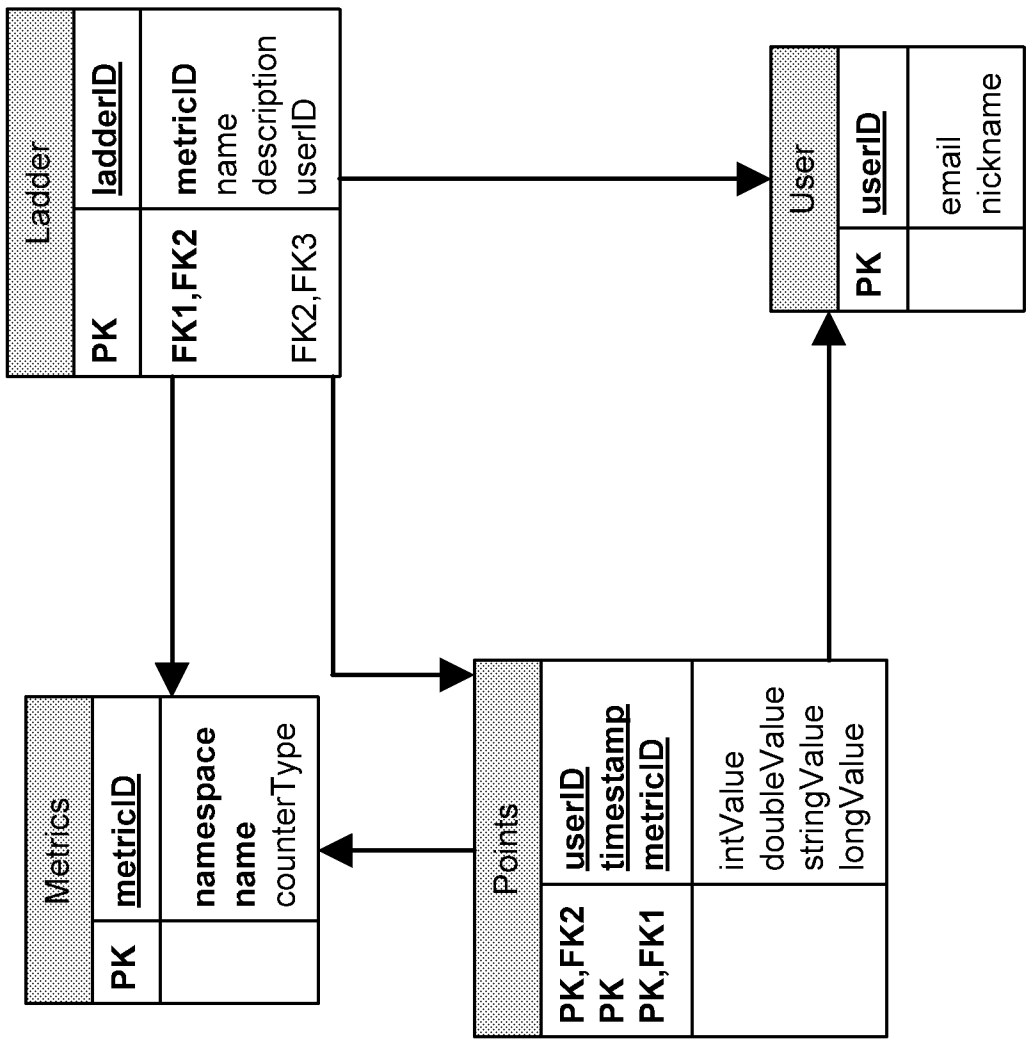
Ladder
PK
ladderID
FK1,FK2
metricID
name
description
FK2,FK3
userID
User
PK
userID
email
nickname
Metrics
PK
metricID
namespace
name
counterType
Points
PK,FK2
PK
PK,FK1
userID
timestamp
metricID
intValue
doubleValue
stringValue
longValue

FIGURE 5

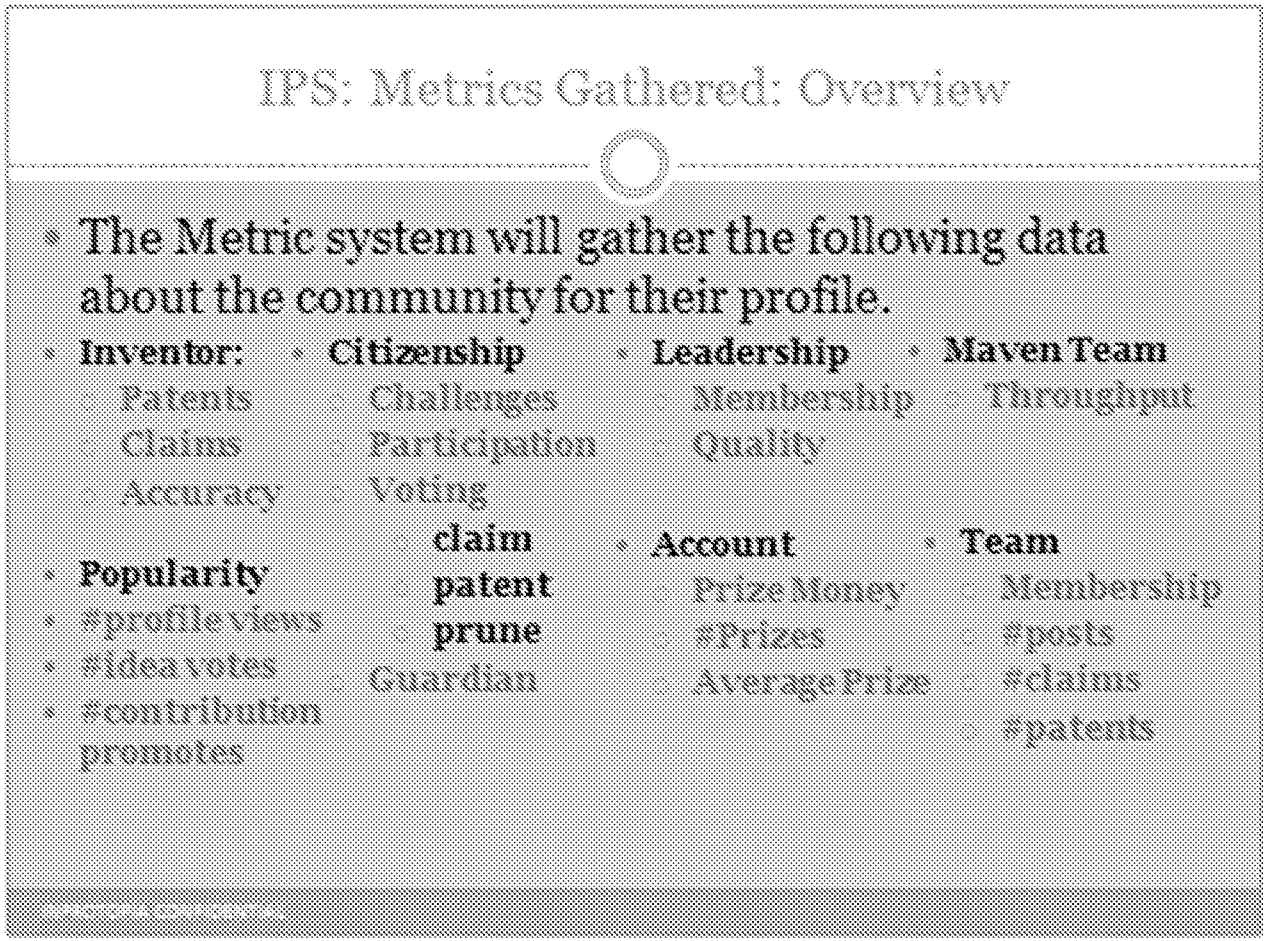
IPS: Metrics Gathered: Overview
The Metric system will gather the following data about the community for their profile.
Inventor:
Patents
Claims
Accuracy
Popularity
#profile views
#idea votes
#contribution promotes
Citizenship
Challenges
Participation
Voting
claim
patent
prune
Guardian
Leadership
Membership
Quality
Account
Prize Money
#Prizes
Average Prize
Maven Team
Throughput
Team
Membership
#posts
#claims
#patents

FIGURE 6

IPS: Inventor Metrics Gathered
Inventor Metrics will include:
Patent
#Ideated
#Assembled
#Filed
#Defended
#Granted
#Sold
Claims
#Ideated
#Assembled
#Filed
#Defended
#Granted
#Sold
Accuracy
#Ideated
#Assembled
#Filed
#Defended
#Granted
#Sold

FIGURE 7

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US20 13/020590

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - G06Q 10/06 (201 3.01)
USPC - 705/31 0
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC(8) - G06Q 10/00, 06, 50/18; G06F 17/30 (2013.01)
USPC - 705/1 .1, 300, 310, 311

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
CPC - G06Q 10/06, 0631, 06315, 50/184 (2013.01)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PatBase, Orbit.com, Google Patents, Engineering Village

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	**US 2005/0267777 A1 (BENTLEY III) 01 December 2005 (01 .12.2005) entire document**	**1-21**
Y	**US 2004/0073443 A1 (GABRICK et al) 15 April 2004 (15.04.2004) entire document**	**1-21**
A	**US 2003/0036947 A1 (SMITH III et al) 20 February 2003 (20.02.2003) entire document**	**1-21**
A	**US 2010/0023355 A1 (SAGALOW et al) 28 January 2010 (28.01.2010) entire document**	**1-21**

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"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search **report**
27 February 2013	**22 MAR 2013**

Name and mailing address of the ISA/US	Authorized officer:
Mail Stop PCT, Attn: ISA/US, Commissioner for Patents **P.O. Box 1450, Alexandria, Virginia 22313-1450** Facsimile No. **571-273-320 1**	**Blaine R. Copenheaver** PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/2 10 (second sheet) (July 2009)