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(54) **SANDING GLOVES**

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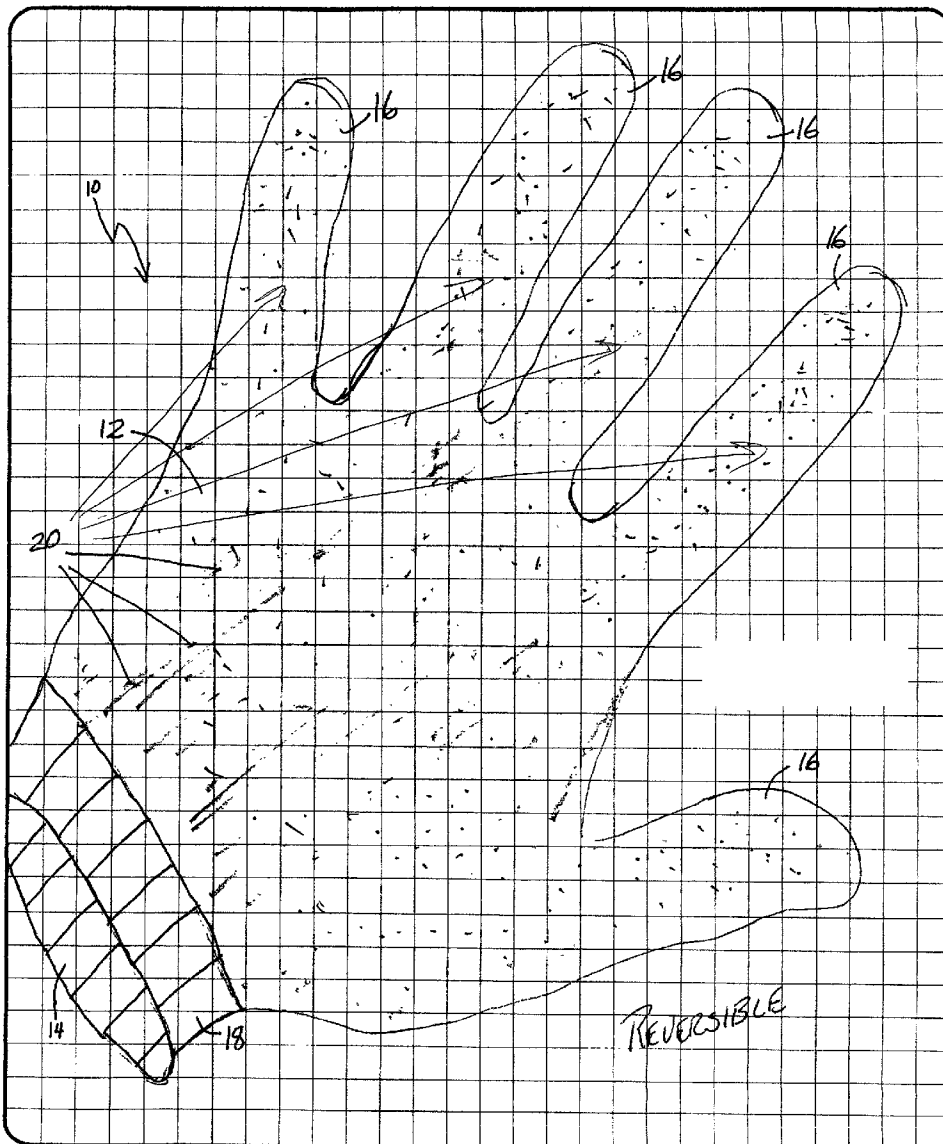
(57) **ABSTRACT**

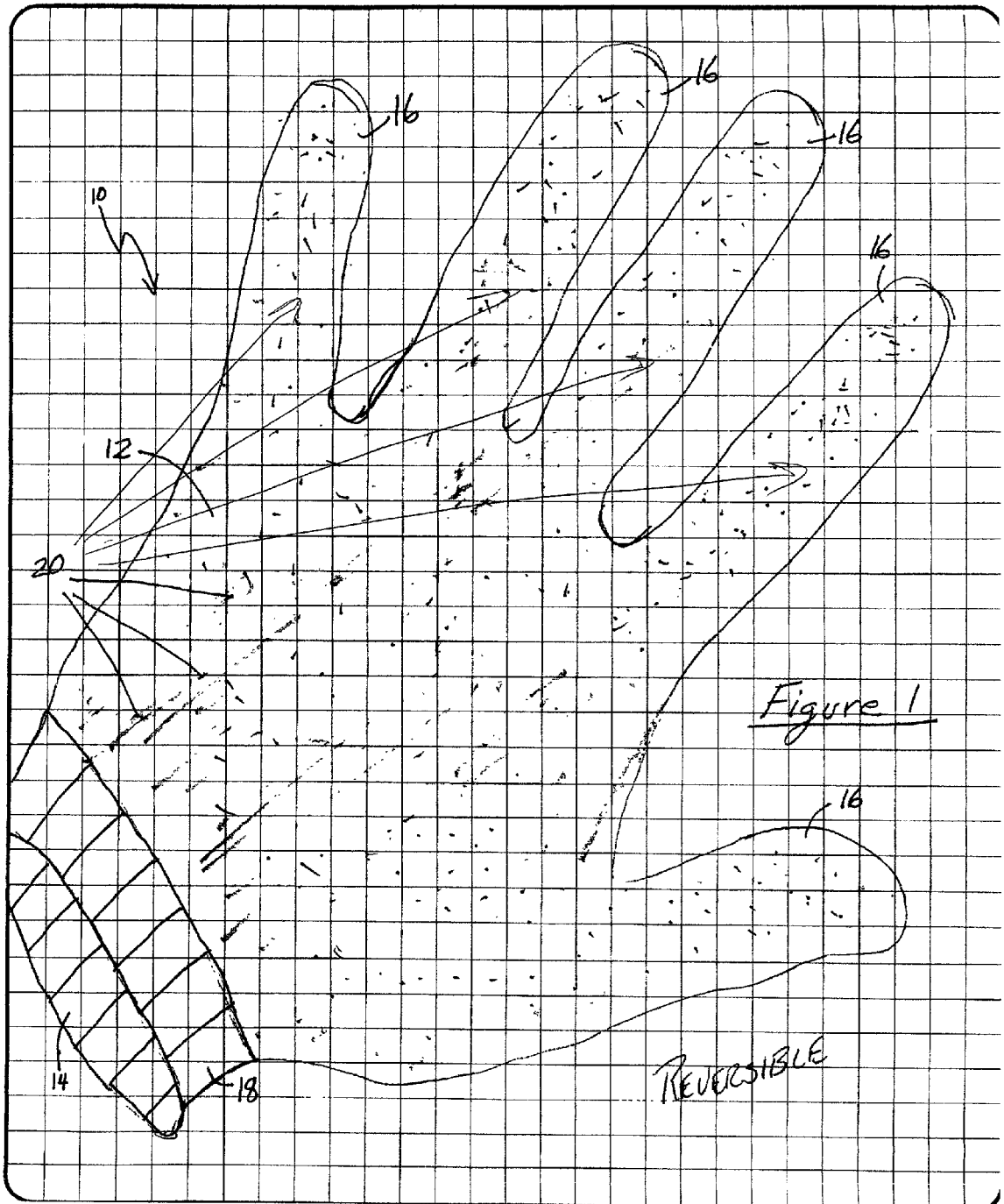
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Related U.S. Application Data

(63) Non-provisional of provisional application No. 60/209,293, filed on Jun. 5, 2000.

The present invention discloses a glove to be worn on the hand of a human user which glove is covered with an abrasive material having possibly silica or aluminum oxide embedded therein. The glove is flexible and is thereby used to sand variously sized and shaped workpieces.





SANDING GLOVES

BACKGROUND OF THE INVENTION

[0001] This application claims benefit of Provisional Patent Application Serial No. 60/209,293 filed on June 5, 2000.

FIELD OF THE INVENTION

[0002] The present invention relates generally to gloves, and more particularly, is concerned with a sanding glove.

DESCRIPTION OF THE PRIOR ART

[0003] Devices useful for sanding have been described in the prior art. However, none of the prior art devices disclose the unique features of the present invention.

[0004] In U.S. Pat. No. Des. 372,111, dated Jul. 30, 1996, Zeigler disclosed the ornamental design for a combined glove and sandpaper as shown.

[0005] In U.S. Pat. No. 5,863,243, dated Jan. 26, 1999, Ali disclosed a sanding block which has a first member having an intermediate portion and a pair of relatively flexible ends wherein a top surface of the first member is configured to be hand held and a bottom surface of each of the ends has at least one retention open surface therein and a second relatively rigid member having an intermediate portion connected to the intermediate portion of the first member and a pair of ends wherein a top surface of each end of the second member has extending therefrom at least one complimentary retention protrusion which respectively seat in one of the retention open surfaces and wherein the ends of the second member have a chamfered edge extending about a periphery of the top surface of each end of the second member.

[0006] In U.S. Pat. No. 5,419,087, dated May 20, 1995, Haddy disclosed a flexible polyurethane foam cylindrically shaped sanding device manufactured from formulas of abrasive material, can be permanently surfaced with an abrasive material or layer and can be used in conjunction with abrasive sheets. The tube sheet can be manufactured from wet or dry type abrasive sheets, perforated to allow for water penetration for wet sanding. The tube sheet is assembled into tube form by connection of the opposite edges of same abrasive sheet by fastening same sheet edge to edge by the adhesive tape on back side of sheet. The sanding device is mountable to a pole by the mounting rod which is run through mounting apparatus fork, through the sanding device center sleeve and into the opposite threaded hole or inserted nut or disc nut. The mounting apparatus is fastened to external pole by screwing same pole into fitting on mounting apparatus. The opposite end of same exterior pole has the handle with compression fitting which adjusts to compress against and hold the internal pole, with handle, which is contained within and slides through the external pole, screwing into the rotation stop brake which slides along the two forks of the mounting apparatus and locks the sanding device from rotation on mounting rod. A multitude of sanding devices can be assembled together end to end onto the mounting rod for hand operation or larger working surfaces.

[0007] In U.S. Pat. No. 5,309,681, dated May 10, 1994, Cheney, et al., disclosed a comfortable sanding assembly incorporating a flexible attachment for ready attachment to

a hand or power sander. The sanding assembly is particularly useful for sanding contoured, and other non-planar surfaces and angles. The sanding assembly comprises a compressible sanding block, said sanding block further comprising peripheral surfaces of an abrasive material and, said sanding block further comprising a flexible attachment. The flexible attachment is designed for ready attachment to, and ready removable detachment from, a hand or power sander.

[0008] In U.S. Pat. No. Des. 310,012, dated Aug. 21, 1990, Henke, et al., disclosed an ornamental design for a hand-held sander, as shown and described.

[0009] While these sanding devices may be suitable for the purposes for which they were designed, they would not be as suitable for the purposes of the present invention, as hereinafter described.

SUMMARY OF THE INVENTION

[0010] The present invention discloses a glove to be worn on the hand of a human user which glove is covered with an abrasive material having possibly silica or aluminum oxide embedded therein. The glove is flexible and is thereby used to sand variously sized and shaped workpieces.

[0011] An object of the present invention is to enable a user to sand in difficult to reach or odd shaped places which are not flat. A further object of the present invention is to provide a glove which is comfortable when it is worn so as to allow one to sand rounded corners of work pieces.

[0012] A further object of the present invention is to provide a sanding device which Presents less fatigue to the user. A further object of the present invention is to provide a sanding device which is faster and more efficient than convention sanding devices.

[0013] The foregoing and other objects and advantages will appear from the description to follow. In the description reference is made to the accompanying drawing, which forms a part hereof, and in which is shown by way of illustration specific embodiments in which the invention may be practiced. These embodiments will be described in sufficient detail to enable those skilled in the art to practice the invention, and it is to be understood that other embodiments may be utilized and that structural changes may be made without departing from the scope of the invention. In the accompanying drawing, like reference characters designate the same or similar parts throughout the several views.

[0014] The following detailed description is, therefore, not to be taken in a limiting sense, and the scope of the present invention is best defined by the appended claims.

BRIEF DESCRIPTION OF THE DRAWINGS

[0015] In order that the invention may be more fully understood, it will now be described, by way of example, with reference to the accompanying drawing in which:

[0016] **FIG. 1** is a perspective view of the present invention.

LIST OF REFERENCE NUMERALS

[0017] With regard to reference numerals used, the following numbering is used throughout the drawing.

10	present invention
12	material
14	opening
16	finger and thumb receptacles
18	elastic
20	abrasive particles

DESCRIPTION OF THE PREFERRED EMBODIMENT(S)

[0018] Turning now descriptively to **FIG. 1** which illustrates the present invention being a sanding glove.

[0019] Turning to **FIG. 1**, therein is shown the present invention **10** being a glove made of flexible material **12** whereby it is inserted onto a human hand through opening **14** having one thumb and four finger receptacle areas **16** for receiving all of the fingers and thumb of a human hand. Also, the glove **10** may have an elastic area **18** in the area of the wrist for assisting in holding the glove onto the arm and hand of the user. The glove is made of a material being rough on its exterior surface having abrasive particles **20** embedded therein or otherwise attached by means thereto which gloves are useful for sanding work pieces. The abrasive particles or areas may be made of silica or aluminum oxide or other material as would be done by one skilled in the art. The gloves are particularly useful for sanding on objects which are not flat as, e.g., those which may be curved or rounded at their edges. The present invention **10** may also be a mitten having the abrasive particles disposed thereon.

[0020] What is claimed to be new and desired to be protected by letters patent is set forth in the appended claims.

I claim:

1. An apparatus for being worn on the hand of a user useful for sanding a workpiece, comprising:

- a) a glove, said glove being disposed on the hand of the user, said glove having an interior and an exterior surface;
 - b) means for a plurality of abrasive particles disposed on said exterior surface of said glove; and,
 - c) means for attaching said abrasive particles to said exterior surface of said glove.
2. The apparatus of claim 1, wherein said means for abrasive particles further comprises silica particles.
3. The apparatus of claim 1, wherein said means for abrasive particles further comprises aluminum oxide particles.
4. The apparatus of claim 1, wherein said means for attaching said abrasive particles to said exterior surface of said glove further comprises embedding the abrasive particles in said exterior surface of said glove.
5. An apparatus for being worn on the hand of a user useful for sanding a workpiece, comprising:
- a) a mitten, said mitten being disposed on the hand of the user, said mittens having an interior and an exterior surface;
 - b) means for a plurality of abrasive particles disposed on said exterior surface of said mitten; and,
 - c) means for attaching said abrasive particles to said exterior surface of said mitten.
6. The apparatus of claim 1, wherein said means for abrasion particles farther comprises silica particles.
7. The apparatus of claim 1, wherein said means for abrasion particles further comprises aluminum oxide particles.
8. The apparatus of claim 1, wherein said means for attaching said abrasive particles to said exterior surface of said mitten further comprises embedding the abrasive particles in said exterior surface of said mitten.

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