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(71) Applicant(s):  
Symbol Technologies, LLC  
One Zebra Plaza, Holtsville, NY 11742,  
United States of America  
(72) Inventor(s):  
Raymond Phan  
Richard Jeffrey Rzeszutek  
Iaacov Coby Segall  
(74) Agent and/or Address for Service:  
LKGLOBAL Lorenz & Kopf PartG mbB  
Patentanwalte, brienner Straße 11, Munich 80333,  
Germany

(54) Title of the Invention: **Method, system, and apparatus for correcting translucency artifacts in data representing a support structure**  
Abstract Title: **Method, system, and apparatus for correcting translucency artifacts in data representing a support structure**

(57) A method in an imaging controller of correcting translucency artifacts in data representing one or more objects disposed on a shelf includes: obtaining a plurality of depth measurements captured by a depth sensor and corresponding to an area containing the shelf; obtaining (i) a definition of a plane containing edges of the shelf, (ii) a location in the plane of an upper shelf edge, and (iii) a location in the plane of a lower shelf edge adjacent to the upper shelf edge; generating a depth map containing, for each of a plurality of positions in the plane, a nearest object depth; detecting an upper object boundary in the depth map between the upper and lower support surface edges; updating each nearest object depth between the upper object boundary and the lower shelf edge to contain a depth of the upper object boundary; and storing the corrected depth map.

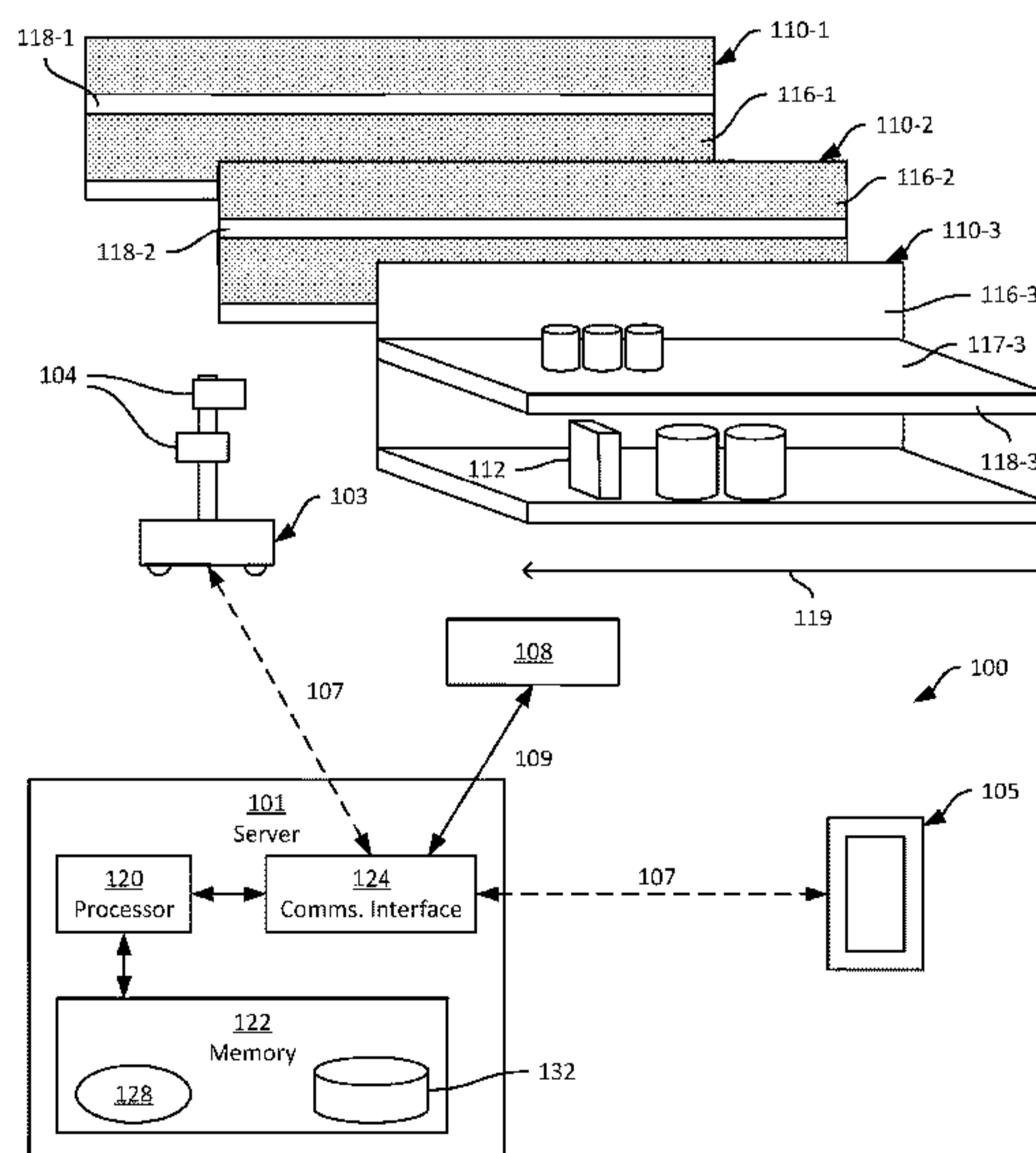


FIG. 1