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(12) United States Patent

Shucker et al.

(54) MACHINE-READABLE DELIVERY PLATFORM FOR AUTOMATED PACKAGE DELIVERY

(71) Applicant: **GOOGLE LLC**, Mountain View, CA (US)

(72) Inventors: Brian Daniel Shucker, Superior, CO

(US); Brandon Kyle Trew, San

Francsico, CA (US)

(73) Assignee: **GOOGLE LLC**, Mountain View, CA

(US)

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claimer.

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- (51) **Int. Cl.**

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(58) Field of Classification Search

None

See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

3,778,007 A 12/1973 Kearney, II et al. 6,266,142 B1 7/2001 Junkins et al. (Continued)

FOREIGN PATENT DOCUMENTS

CN 101604830 A 12/2009 CN 101979961 A 2/2011 (Continued)

OTHER PUBLICATIONS

U.S. Appl. No. 14/268,683 to Shucker et al. filed May 2, 2014. (Continued)

Primary Examiner — Christle I Marshall (74) Attorney, Agent, or Firm — Johnson, Marcou & Isaacs, LLC

(57) ABSTRACT

A user requests a package delivery from a package delivery system. The package delivery system provides the user with a machine-readable code for display at the delivery location. An aerial delivery device receives, from the package delivery system computing device, information associated with the delivery location of the package. The information comprises information matching the information in the machine-readable code associated with the delivery location and a delivery address. The delivery device secures the package for transporting to the delivery location and transports the package to the delivery address. The delivery device locates the machine-readable code on a display at the delivery address and verifies that the information from the machine-readable code is associated with the package. The delivery device deposits the package on the display.

18 Claims, 5 Drawing Sheets

