

Title (en)
Optically-guided indicia reader system

Title (de)
Optisch geleitetes Zeichenabtastsystem

Title (fr)
Système de lecture d'un indice guidé optiquement

Publication
EP 1371424 A3 20040428 (EN)

Application
EP 03020263 A 19980123

Priority
• EP 98902706 A 19980123
• US 78797497 A 19970123
• US 78885297 A 19970123

Abstract (en)
[origin: WO9832545A1] An optically-guided indicia reader (10) system including a conveyor (12) carrying a parcel (14) bearing a destination address (20). An illumination source (24) defines a area (26) to assist the positioning of the parcel (14) on the conveyor (12). A scanner (32) and a computer memory (42) of a character recognition system (40) are operated so as to store an image of a region defined with respect to the moving illuminated area (26). A sensor assembly (28), including a height sensor and reflectivity sensor, is located toward the downstream location of the illumination source (24). The scanner (32) includes internal components (33) well known to those skilled in the art that automatically focuses the scanner in response to height data, and adjusts the gain of the scanner (32) in response to reflectivity data, so that the scanner (32) generates a clear image of the top of the parcel (14) as the parcel passes beneath the scanner (32). A photo sensor (45) is positioned upstream from the scanner (32) to detect the presence of the parcel (14). The video data generated by the scanner (32) may be stored in the computer memory (42) only when the beam (50) of the photo sensor (45) is broken. A time delay may be imposed to account for the distance between the beam (50) and the scan line (34). Alternatively, a moving-light illumination source (224) defines a spot (230) that moves at the same speed as the conveyor (212) to assist the positioning of the parcel (214) on the conveyor (212).

IPC 1-7
B07C 3/14

IPC 8 full level
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CPC (source: EP)
B07C 3/14 (2013.01)

Citation (search report)
• [A] EP 0647479 A2 19950412 - GALAI LAB LTD [IL], et al
• [A] EP 0440129 A1 19910807 - CGA HBS [FR]
• [A] US 5202557 A 19930413 - ROBERTSON GARY S [US]
• [A] GB 1270801 A 19720419 - EMI LTD
• [XDA] "parcel positioning scanning and sorting system", IBM TECHNICAL DISCLOSURE BULLETIN, vol. 15, no. 4, September 1972 (1972-09-01), US, pages 1170 - 1171, XP002065579

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CN111301985A; CN104307758A; EP2384825A1; US9186706B2; US9511954B2; US10384234B2

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