

Title (en)

Mold identification.

Title (de)

Form-Identifizierung.

Title (fr)

Identification de moule.

Publication

EP 0234105 A1 19870902 (EN)

Application

EP 86309371 A 19861202

Priority

US 81485385 A 19851230

Abstract (en)

A mold number reader for detecting code marks (15) at the heel of a transparent bottle or the like, such code marks desirable being in the form of dots or balls protruding from the bottle's heel. During rotation of the bottle, its heel portion is illuminated with a structured collimated light beam (40) in the form of a narrow rectangle, which light is selectively reflected by code marks and collected by field-type optics (60, 65). The use of a well defined collimated light source of small area provides a high input signal level, while the field optics enjoys a high depth of field and hence decreased sensitivity to bottle placement during inspection. The light source may be a modulated laser diode (25) and the signal processing electronics may include a demodulator (120) to process the photodetector (70) output signal. The use of heterodyned signal processing decreases the sensitivity to ambient light and other sources of noise in the output signal.

IPC 1-7

B07C 5/34

IPC 8 full level

B07C 5/34 (2006.01); **G06K 7/10** (2006.01)

CPC (source: EP)

B07C 5/3412 (2013.01)

Citation (search report)

- [XD] US 4201338 A 19800506 - KELLER RENE [CH]
- [A] FR 2234613 A1 19750117 - PLATMANUFACTUR AB [SE]

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CN113333312A; CN111842177A; FR2654955A1; GB2462409A; US10012598B2; US9818249B1; US7010863B1; WO2005073699A1

Designated contracting state (EPC)

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