Title (en)

Method for detecting a hopper insertion state for a bag-filling packaging machine

Title (de)

Verfahren zum Detektieren der Position eines einsteckbaren Einfülltrichters einer Beutelverpackungsmaschine

Title (fr)

Procédé pour la détermination de l'état d'insertion d'une trémie dans une machine d'emballage pour sachets

Publication

EP 1728721 A1 20061206 (EN)

Application

EP 06011194 A 20060531

Priority

JP 2005159540 A 20050531

Abstract (en)

A method for detecting a hopper insertion state for a bag-filling packaging machine using photoelectric sensors 7 provided at an item supply step position. The photoelectric sensors 7 detect deformation of the bag mouth that occurs when the hopper 4 is inserted into the bag mouth, and a decision whether the insertion status of the hopper 4 in the bag mouth is good or bad is made based on the detection result of the photoelectric sensors 7. If the tip end of the descending hopper 4 catches the bag mouth or presses the bag mouth and folds it, the bag face is moved away from the detection part 9 (light passage route) of the sensors 7, so that light from the light-emitting part of the sensors 7 reaches a reflecting mirror 6 and reflected, and the reflected light is detected by the light-receiving part of the sensors 7.

IPC 8 full level

B65B 39/12 (2006.01); **B65B 57/02** (2006.01); **B65B 57/10** (2006.01)

CPC (source: EP US)

B65B 39/12 (2013.01 - EP US); **B65B 57/02** (2013.01 - EP US); **B65B 57/10** (2013.01 - EP US)

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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1728721 A1 20061206; JP 2006335381 A 20061214; US 2006266009 A1 20061130

DOCDB simple family (application)

EP 06011194 A 20060531; JP 2005159540 A 20050531; US 44292306 A 20060530