

Title (en)

Monitoring printing and cutting quality in a production plant for making packages.

Title (de)

Überwachung der Druckqualität und der Schneidqualität in einer Produktionsanlage zur Herstellung von Verpackungen.

Title (fr)

Contrôle de qualité de l'impression et du découpage dans une installation de production d'emballages.

Publication

**EP 0452769 B1 19950712 (FR)**

Application

**EP 91105523 A 19910408**

Priority

CH 130190 A 19900418

Abstract (en)

[origin: EP0452769A1] During the manufacture of packages, printed sheets (F) are transported, by clamp bars (6) through a cutting-out station (2) of a machine. In a part of the machine located before the front waste (Df) ejection (8), a "CAMERA FLASH" unit (10) produces an image of a front waste Df zone where printing registration marks and at least a part of its cut-out are located. Then, image processing and comparison of a real image with a reference image allow the quality monitoring of the package, in particular with regard to the colour registration and the position of the printing with respect to the cutting-out. <IMAGE>

IPC 1-7

**B26D 5/34**; **B41F 33/00**

IPC 8 full level

**B41F 33/02** (2006.01); **B26D 5/34** (2006.01); **B26D 7/27** (2006.01); **B31B 1/74** (2006.01); **B41F 33/00** (2006.01); **B41F 33/14** (2006.01); **G01N 21/89** (2006.01); **G01N 21/892** (2006.01); **G06T 1/00** (2006.01); **G07C 3/14** (2006.01)

CPC (source: EP US)

**B26D 5/007** (2013.01 - EP US); **B41F 33/0081** (2013.01 - EP US); **B31B 50/006** (2017.08 - EP US); **Y10T 83/148** (2015.04 - EP US); **Y10T 83/169** (2015.04 - EP US); **Y10T 83/543** (2015.04 - EP US)

Cited by

EP2722180A1; DE102012109949A1; EP0453974A3; EP0687997A3; CN112895749A; DE102004014498A1; EP0810092A1; KR20190140972A; WO2018192684A1; EP3077307B1

Designated contracting state (EPC)

AT BE DE DK ES FR GB IT LU NL SE

DOCDB simple family (publication)

**EP 0452769 A1 19911023**; **EP 0452769 B1 19950712**; AT E124902 T1 19950715; CA 2040533 A1 19911019; CA 2040533 C 19970812; CH 682600 A5 19931015; DE 69111122 D1 19950817; DE 69111122 T2 19960118; DK 0452769 T3 19951030; ES 2074601 T3 19950916; JP 2653729 B2 19970917; JP H04223172 A 19920813; US 5241483 A 19930831

DOCDB simple family (application)

**EP 91105523 A 19910408**; AT 91105523 T 19910408; CA 2040533 A 19910416; CH 130190 A 19900418; DE 69111122 T 19910408; DK 91105523 T 19910408; ES 91105523 T 19910408; JP 8687491 A 19910418; US 68724191 A 19910418