

Title (en)

Automatic register device for cup printing machine

Title (de)

Vorrichtung zur automatischen Registerregelung für eine Tassendruckmaschine

Title (fr)

Dispositif de réglage automatique de registre pour machine d'impression de tasse

Publication

EP 2409837 B1 20131218 (EN)

Application

EP 11166974 A 20110520

Priority

CN 201010183218 A 20100522

Abstract (en)

[origin: EP2409837A1] An automatic register device for a cup printing machine, including a printing roller, a roll shaft, a center roller, and a center shaft. The center roller being flexibly fit on the center shaft, the roll shaft being parallel to the center shaft, the center shaft being rotably disposed in a hole of a wallboard, and transmission connected to a power mechanism of the cup printing machine. The automatic register device for a cup printing machine further includes an axial adjustment mechanism, a circumferential adjustment mechanism, a pressure adjustment mechanism, and a fast adjustment mechanism. The roll shaft is an eccentric shaft, a supported end of the eccentric shaft is disposed in the hole of the wallboard, an extension end of the eccentric shaft extends from the wallboard, and the printing roller is rotably connected to the extension end of the eccentric shaft, and capable of axially sliding. The automatic register device for a cup printing machine features simple structure, and is capable of implementing fast adjustment of a register device, and axial adjustment, circumferential adjustment, and pressure adjustment of a register device during printing. Adjustment thereof is fast and accurate, efficiency thereof is high, and automatic adjustment can be facilitated, which improves grade of products.

IPC 8 full level

B41F 13/36 (2006.01); **B41F 13/14** (2006.01); **B41F 13/38** (2006.01); **B41F 13/40** (2006.01); **B41F 17/14** (2006.01)

CPC (source: EP)

B41F 13/14 (2013.01); **B41F 13/36** (2013.01); **B41F 13/38** (2013.01); **B41F 13/40** (2013.01); **B41F 17/14** (2013.01); **B41P 2213/90** (2013.01)

Cited by

CN107901581A; CN105711244A; CN105172335A; CN105172334A; CN109532209A; US2022118758A1; WO2021119045A1; US11338566B2; US11433662B2; US11685149B2; WO2022271446A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 2409837 A1 20120125; **EP 2409837 B1 20131218**; CN 101830100 A 20100915; CN 101830100 B 20120201

DOCDB simple family (application)

EP 11166974 A 20110520; CN 201010183218 A 20100522