

Title (en)
Rotation embossing device and embossing method

Title (de)
Rotationsprägeeinrichtung und Prägeverfahren

Title (fr)
Dispositif de gaufrage rotatif et procédé de gaufrage

Publication
EP 2036712 A3 20150218 (DE)

Application
EP 08105206 A 20080902

Priority
DE 102007044217 A 20070917

Abstract (en)
[origin: EP2036712A2] The device (10) has embossing units provided with female and male dies (12, 14) and toothed wheels (15, 16). The units are connected with male and female die shafts (13, 14), which are adjustable in height. The female and male dies are coupled with each other. A locking device prevents rotation of one of the units on the female die shaft. The shafts are arranged parallel to each other. The male shaft is moved relative to the female shaft by an actuator (21) e.g. peizoactuator, such that the wheels engage with each other during an embossing process. The dies are synchronized with each other. Independent claims are also included for the following: (1) a method for positioning of embossing into a folding box (2) a method for quality control of products.

IPC 8 full level
B31F 1/07 (2006.01); **B26D 7/26** (2006.01); **B31B 50/88** (2017.01)

CPC (source: EP)
B31F 1/07 (2013.01); **B31B 50/256** (2017.07); **B31B 50/88** (2017.07); **B31F 2201/0753** (2013.01); **B31F 2201/0779** (2013.01)

Citation (search report)

- [YA] EP 1820632 A1 20070822 - BENT CHRISTENSEN HOLDING APS [DK]
- [YA] EP 1145791 A1 20011017 - MITSUBISHI HEAVY IND LTD [JP]
- [AD] EP 1537920 A1 20050608 - MADERN JEAN HENRY ROBERT [NL]
- [A] DE 202005017869 U1 20060713 - ROSAS WOLF DAVID [DE]

Cited by
DE102010036011A1; CN103587148A; CN103057173A; EP2172329A3; CN102514031A; EP2422993A3; EP2422993A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
EP 2036712 A2 20090318; EP 2036712 A3 20150218; EP 2036712 B1 20160810; DE 102007044217 A1 20090319; ES 2590760 T3 20161123

DOCDB simple family (application)
EP 08105206 A 20080902; DE 102007044217 A 20070917; ES 08105206 T 20080902