

Title (en)
PLATE FOR LABELLING MACHINE AND CAROUSEL LABELLING MACHINE COMPRISING A PLURALITY OF PLATES

Title (de)
TELLER FÜR ETIKETTIERMASCHINE UNED ETIKETTIERKARUSSELL UMFASSEND MEHRERE TELLER

Title (fr)
PLATEAU POUR ÉTIQUETEUSE ET ÉTIQUETEUSE À CARROUSEL COMPRENANT UNE PLURALITÉ DE PLATEAUX

Publication
EP 3351482 A1 20180725 (EN)

Application
EP 17209111 A 20171220

Priority
IT 201700007577 A 20170124

Abstract (en)
This invention relates to a plate (1) for a labelling machine (10) with a carousel. The plate (1) comprises a disk-shaped support (3) for a container (9) to be labelled. The disk-shaped support (3) is associable with a bottom (92) of the container (9) and is rotatable about an axis of rotation (30). The plate (1) comprises at least three hooking teeth (41, 42, 43, 44) which are arranged on a teeth-holding member (40) in positions spaced along an arc of a circle that is centred on the axis of rotation (30). Each hooking tooth (41, 42, 43, 44) is insertable in a respective recess (961, 962, 963, 964) made in the bottom (92) of the container (9). The teeth-holding member (40) is movable relative to the disk-shaped support (3) along an axial line, whereby the hooking teeth are movable relative to the disk-shaped support (3) between an engaged position, in which they are inserted in the respective recesses of the container (9) thereby hooking the container (9), and a disengaged position, in which the hooking teeth are not associated with the respective recesses. The disk-shaped support (3) is angularly shiftable relative to the teeth-holding member (20), whereby the container (9) supported by the disk-shaped support (3) is angularly shiftable relative to the hooking teeth (41, 42, 43, 44) for positioning the hooking teeth (41, 42, 43, 44) at the respective recesses (961, 962, 963, 964). The hooking teeth (41, 42, 43, 44) are in positions that are angularly spaced from one another and that overall do not have rotary symmetry relative to the axis of rotation (30). In use, with respective recesses (961, 962, 963, 964) of the container (9) that have corresponding angular distances, the hooking teeth (41, 42, 43, 44) are simultaneously insertable in the recesses (961, 962, 963, 964) for only one mutual angular position of the container (9) relative to the hooking teeth (41, 42, 43, 44). This invention also relates to a labelling machine (10) with a carousel and a container (9).

IPC 8 full level
B65C 9/06 (2006.01); **B65D 1/02** (2006.01)

CPC (source: EP)
B65C 9/065 (2013.01); **B65D 1/0223** (2013.01); **B65D 1/0284** (2013.01)

Citation (applicant)
WO 2015008304 A1 20150122 - KOSME SRL UNIPERSONALE [IT]

Citation (search report)
• [XA] DE 102007030917 A1 20090108 - KHS AG [DE]
• [XA] WO 2006083568 A1 20060810 - GRAHAM PACKAGING CO [US], et al
• [AD] WO 2015008304 A1 20150122 - KOSME SRL UNIPERSONALE [IT]
• [A] US 5224586 A 19930706 - NAKA TOSHIAKI [JP], et al
• [A] US 4280612 A 19810728 - NAGANO YASUAKI
• [A] EP 1145966 A1 20011017 - PE SRL [IT]

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3351482 A1 20180725; **EP 3351482 B1 20190313**; ES 2727301 T3 20191015; IT 201700007577 A1 20180724

DOCDB simple family (application)
EP 17209111 A 20171220; ES 17209111 T 20171220; IT 201700007577 A 20170124