

Title (en)
Bottle support platform

Title (de)
Flaschenteller

Title (fr)
Plate-forme de support de bouteille

Publication
EP 1657162 B1 20081029 (DE)

Application
EP 05022091 A 20051011

Priority
DE 102004054891 A 20041112

Abstract (en)
[origin: EP1657162A1] The rotatably controlled bottle plate with a standing surface formed by a friction lining (10) is for use with container or bottle handling machines and consists of a bottom section (4) fastened to a rotating device (5) of the handling machine, and at least one top section (7a,7b) exchangeably fastened on the bottom section of the plate. The top section by positive locking inter-engagement of the bottom and top section is torsionally fixed and by permanent magnets (13) secured against lifting and retained on the bottom section.

IPC 8 full level
B65C 9/04 (2006.01); **B67C 3/24** (2006.01)

CPC (source: EP US)
B65C 9/045 (2013.01 - EP US); **B67C 3/24** (2013.01 - EP US)

Cited by
CN108082637A; CN109421975A; US2019071203A1; CN111570455A; CN113414615A; US11117699B2; DE202020107090U1; US11479381B2; US8777000B2; WO2010115521A3; WO2019043122A3

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

DOCDB simple family (publication)
EP 1657162 A1 20060517; EP 1657162 B1 20081029; AT E412580 T1 20081115; DE 102004054891 A1 20060524; DE 502005005794 D1 20081211; PL 1657162 T3 20090430; US 2006117708 A1 20060608; US 2010140049 A1 20100610; US 7673435 B2 20100309; US 7980380 B2 20110719

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EP 05022091 A 20051011; AT 05022091 T 20051011; DE 102004054891 A 20041112; DE 502005005794 T 20051011; PL 05022091 T 20051011; US 27116605 A 20051112; US 70618510 A 20100216