

Title (en)
CONTINUOUS ROTARY BOTTLE-FILLING MACHINE

Publication
EP 0321829 B1 19920129 (DE)

Application
EP 88120778 A 19881213

Priority
DE 8716584 U 19871216

Abstract (en)
[origin: EP0321829A1] A device comprises grippers each arranged in a height-adjustable manner in front of a vertically mobile carriage and elastically supported by a spring device. The seal of the filling element is arranged at a fixed height immediately below the valve seat.

IPC 1-7
B67C 3/24

IPC 8 full level
B67C 3/24 (2006.01)

CPC (source: EP)
B67C 3/246 (2013.01)

Cited by
CN110642209A; EP0989088A2

Designated contracting state (EPC)
BE DE ES FR GB IT NL

DOCDB simple family (publication)
EP 0321829 A1 19890628; EP 0321829 B1 19920129; DE 3868255 D1 19920312; DE 8716584 U1 19890112; EP 0393127 A1 19901024; ES 2029874 T3 19921001; JP H03501600 A 19910411; JP H0659917 B2 19940810; WO 8905772 A1 19890629

DOCDB simple family (application)
EP 88120778 A 19881213; DE 3868255 T 19881213; DE 8716584 U 19871216; EP 8801145 W 19881213; EP 89900813 A 19881213; ES 88120778 T 19881213; JP 50072989 A 19881213