

Title (en)

Machine for orienting bottles, cans or similar containers

Title (de)

Maschine zum Orientieren von Flaschen, Dosen oder dergleichen Behälter

Title (fr)

Machine pour le positionnement de bouteilles, boîtes ou récipients analogues

Publication

**EP 1174345 B2 20091223 (DE)**

Application

**EP 01115443 A 20010627**

Priority

DE 10034907 A 20000718

Abstract (en)

[origin: EP1174345A1] One or more container (2) carriers fit on a rotor (4) running round a vertical machine axle (VA). An individual actuating drive (10) for the carriers controls the position, alignment, orientation or positioning angle of each container carrier in relation to the rotor by using an electronic control/regulating unit (12) while relying on control parameters or data. The control/regulating unit fits directly on the actuating drive.

IPC 8 full level

**B65C 9/04** (2006.01); **B65C 9/06** (2006.01)

CPC (source: EP)

**B65C 9/04** (2013.01); **B65C 9/067** (2013.01)

Citation (opposition)

Opponent :

- DE 29603843 U1 19960613 - GSC SPERANDIO & CO [CH]
- DE 3701554 A1 19880804 - DUERR GMBH & CO [DE]
- DE 3928451 A1 19910307 - SCHMIDT GUENTHER [DE]
- DE 29710056 U1 19990805 - KETTNER GMBH [DE]
- DE 3642724 A1 19880623 - GRUNDFOS INT [DK]

Cited by

DE102013206989A1; DE102008062064A1; EP1864910A1; ITVR20100044A1; EP1449778A1; DE102015004085A1; DE102015004085B4; DE102004026755A1; DE102015004084A1; DE102015004084B4; EP2277783A1; CN101962092A; US7814953B2; DE102007025522A1; WO2005115848A3; WO2007147567A1; WO2011110606A1; US7685797B2; US7328558B2; US8219986B2; DE102004024136B4; US7497323B2; EP2196398A2; US8442673B2; EP2029441B2; EP3898174B1; EP3374274B1

Designated contracting state (EPC)

DE FR GB IT NL

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**EP 1174345 A1 20020123; EP 1174345 B1 20031105; EP 1174345 B2 20091223;** DE 10034907 A1 20020131; DE 50100894 D1 20031211

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