

Title (en)
Filling machine of the rotary type

Title (de)
Füllmaschine umlaufender Bauart

Title (fr)
Machine de remplissage du type à carrousel

Publication
EP 1584601 B1 20081126 (DE)

Application
EP 05005816 A 20050317

Priority
DE 102004017205 A 20040410

Abstract (en)
[origin: EP1584601A1] Filling machine comprises a non-controlled gas path with a throttle formed in each filling element. The gas path connects a return gas pipe with a return gas channel common for all the filling elements on the rotor side. Preferred Features: The return gas pipe is connected with a collecting channel common for all the filling elements via a controlled gas path. A container support is assigned to each filling element to lift a container to be filled and to lower the filled container.

IPC 8 full level
B67C 3/06 (2006.01); **B67C 3/12** (2006.01); **B67C 3/04** (2006.01); **B67C 3/10** (2006.01); **B67C 3/20** (2006.01)

CPC (source: EP US)
B67C 3/04 (2013.01 - EP US); **B67C 3/10** (2013.01 - EP US); **B67C 3/12** (2013.01 - EP US); **B67C 3/286** (2013.01 - EP US)

Cited by
CN109534265A; EP2987617A1; EP3663255A1; ITTO20120240A1; EP2641863A1; CN103318823A; EP2716592A1; US8726946B2; US11993501B2; US8251107B2; US11370646B2; EP3868703A1; WO2008101572A1; WO2008119467A1; WO2008116559A1

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 MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1584601 A1 20051012; EP 1584601 B1 20081126; AT E415375 T1 20081215; BR PI0501659 A 20051116; BR PI0501659 B1 20170620; CN 1680185 A 20051012; CN 1680185 B 20101208; DE 102004017205 A1 20051027; DE 502005006037 D1 20090108; JP 2005298066 A 20051027; JP 4794196 B2 20111019; PL 1584601 T3 20090529; RU 2005110654 A 20061020; RU 2358892 C2 20090620; US 2005241726 A1 20051103; US 7469726 B2 20081230

DOCDB simple family (application)
EP 05005816 A 20050317; AT 05005816 T 20050317; BR PI0501659 A 20050411; CN 200510064998 A 20050411; DE 102004017205 A 20040410; DE 502005006037 T 20050317; JP 2005111603 A 20050408; PL 05005816 T 20050317; RU 2005110654 A 20050408; US 10254805 A 20050408