

Title (en)
Filling system and filling element

Title (de)
Füllsystem sowie Füllelement

Title (fr)
Dispositif et élément de remplissage

Publication
EP 0953541 B1 20031217 (DE)

Application
EP 99104000 A 19990312

Priority
DE 19818762 A 19980427

Abstract (en)
[origin: US6189578B1] A filling system for filling bottles or similar containers with a liquid product under counter pressure has a plurality of filling elements. Each filling element has a liquid valve for the controlled dispensing of the product as well as a plurality of gas ducts realized in a housing, by means of which ducts at least three separate and individually controlled control valves for each filling element can be controlled so that a wide variety of processes can be conducted for the bottling of the product, and namely merely by varying the actuation of the control valves or by varying a corresponding program for a microprocessor-assisted or computer-assisted control device.

IPC 1-7
B67C 3/10

IPC 8 full level
B67C 3/06 (2006.01); **B67C 3/10** (2006.01); **B67C 3/12** (2006.01); **B67C 3/26** (2006.01)

CPC (source: EP US)
B67C 3/10 (2013.01 - EP US); **B67C 3/12** (2013.01 - EP US); **B67C 3/2631** (2013.01 - EP US); **B67C 3/286** (2013.01 - EP US)

Cited by
EP1122210A3; CN110730757A; CN102522223A

Designated contracting state (EPC)
AT BE DE FR IT NL

DOCDB simple family (publication)
US 6189578 B1 20010220; AT E256632 T1 20040115; BR 9902483 A 20000229; DE 19818762 A1 19991028; DE 59908058 D1 20040129; EP 0953541 A1 19991103; EP 0953541 B1 20031217; JP 3068085 B2 20000724; JP H11334794 A 19991207

DOCDB simple family (application)
US 30001599 A 19990427; AT 99104000 T 19990312; BR 9902483 A 19990422; DE 19818762 A 19980427; DE 59908058 T 19990312; EP 99104000 A 19990312; JP 11688599 A 19990423