

Title (en)

Filling machine and filling head for such a machine

Title (de)

Füllmaschine und Füllelement für eine solche Maschine

Title (fr)

Machine de remplissage et tête de remplissage pour une telle machine

Publication

EP 0775668 B1 19990728 (DE)

Application

EP 96116136 A 19961009

Priority

DE 19543945 A 19951125

Abstract (en)

[origin: EP0775668A1] The machine has one flow meter (29) in the liquid channel (7) for each filling element and a second flow meter (35) in the feeder line (31) to each filling element (3). The flow meters are connected to the electronic circuitry (27) which controls a liquid valve (10) and a dosing valve (33) in the feeder line according to the signals of both flow meters so that desired mixture is achieved. The dosing valve for each filling element of the filling machine is separately and individually controlled. The control electronics control the dosing valve arrangement so that the additive is added before and/or during the filling phase with the liquid valve open.

IPC 1-7

B67C 3/20

IPC 8 full level

B67C 3/20 (2006.01)

CPC (source: EP)

B67C 3/023 (2013.01); **B67C 3/208** (2013.01); **B67C 3/286** (2013.01)

Cited by

EP2620406A1; EP3766827A1; US8590581B2; US8944120B2; EP3760577A1; DE102009018730A1; EP2272790A1; DE10140001A1; EP1362825A1; CN105667870A; DE102019135257A1; DE102019135256A1; DE102019135259A1; DE102019118937A1; DE102019135261A1; EP3670433A1; CN111333007A; EP2272792A1; CN101955144A; CN103693601A; JP2010521385A; EP2272791A1; DE102009032794A1; CN101955147A; EP4005969A1; US8763654B2; US11952255B2; DE202014104841U1; US8631839B2; US11345580B2; WO2010124766A3; WO2008116559A1; WO2019043243A1; WO2012048791A1; WO2008037338A1; WO2019076736A1; US6810927B2; US8251107B2; US8757225B2; US2011039044A1; US2012180902A1; CN112174071A; DE102019118091A1; US8800610B2; US9120066B2; JP2011016589A; WO2020169529A3; WO2009129937A1; WO2011044972A3; EP3838838A1; DE102021102669A1; DE102018132621A1; EP3683185A1; EP3838833A1; US11655132B2; EP3838839A1; US11702332B2; DE102022118571A1

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