

Title (en)
Filling valve for a filling machine

Title (de)
Füllventil für eine Abfüllanlage

Title (fr)
Vanne de remplissage pour une machine de remplissage

Publication
EP 0953542 B1 20031217 (DE)

Application
EP 99105206 A 19990312

Priority
DE 19818761 A 19980427

Abstract (en)
[origin: EP0953542A2] The filler element (3) housing (6) contains a liquid-duct (9) forming a discharge opening, and connected to the liquid-chamber of a boiler (2). The boiler contains a gas-chamber which contains an atmosphere below a first gas pressure. A liquid-valve (13) is opened for filling a container (4) placed by its aperture (5) on the filler element, and is closed at the end of the filling stage. A return gas pipe (14) has a bottom open end (11') protruding beyond the underside of the filler element, and at least partly enclosed by the discharge opening. A gas duct (16) extends from the bottom end of the return pipe into the gas-chamber. A gas valve with main body blocks and opens the gas duct to the gas chamber. Gas-ways (20,21,28) are controlled by a control valve (23). A trinox duct (26) contains a preferably inert gas at a second gas pressure higher than the first gas pressure, and is connected by the control valve and a first gas-way (21,28) with the interior of the container.

IPC 1-7
B67C 3/26

IPC 8 full level
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 3/2628** (2013.01 - EP US); **B67C 3/08** (2013.01 - EP)

Cited by
DE102013107256A1; DE102013107260A1; WO2015004001A1; US9809436B2; WO2015003941A1; US9969603B2

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