

Title (en)

System for filling bottles, cans or similar containers with a liquid product

Title (de)

System zum Abfüllen eines flüssigen Füllgutes in Flaschen, Dosen oder dergl. Behälter

Title (fr)

Système pour remplir des bouteilles, des boîtes ou des récipients similaires avec un produit liquide

Publication

EP 0658511 B1 19961106 (DE)

Application

EP 94119475 A 19941209

Priority

DE 4342987 A 19931216

Abstract (en)

[origin: EP0658511A1] In the case of a filling system for filling containers (2) with a liquid product by means of a filling element (1), there is provided on the latter an electric probe (10), which determines the filling level and has a first probe section (11), which forms the lower probe tip and a first electrode (E1), as well as a second probe section (13), which is arranged above the first probe section and forms a second electrode (E2), and a probe section (12), which is designed as an insulator and is situated between the first and second probe sections. A third electrode (E3) is formed on the filling element in the path of the liquid. The electrodes are connected to an evaluation and control electronic unit (15) in such a way that the probe has a first, high-resistance state before the first and second electrodes are covered by the liquid product, has a second, low-resistance state when the first electrode is covered by the liquid product, and has a third, likewise low-resistance state when the second electrode is covered. <IMAGE>

IPC 1-7

B67C 3/28

IPC 8 full level

B67C 3/28 (2006.01); **B67C 3/26** (2006.01)

CPC (source: EP)

B67C 3/285 (2013.01); **B67C 2003/2685** (2013.01)

Cited by

US7299607B2; EP2343518A1; CN102116662A; US9751746B2; US8375783B2; WO2013189561A1

Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

EP 0658511 A1 19950621; **EP 0658511 B1 19961106**; DE 4342987 A1 19950622; DE 59400997 D1 19961212

DOCDB simple family (application)

EP 94119475 A 19941209; DE 4342987 A 19931216; DE 59400997 T 19941209