

Title (en)

Method and filling machine for the bottom filling of bottles

Title (de)

Verfahren und Füllmaschine für das unterschichtige Füllen von Flaschen

Title (fr)

Procédé et soutireuse pour le remplissage par le bas de bouteilles

Publication

EP 1623952 B1 20090916 (DE)

Application

EP 05015839 A 20050721

Priority

DE 102004038323 A 20040806

Abstract (en)

[origin: EP1623952A1] The method involves maintaining the immersion depth of a filling tube at a reduced value within predetermined limits during the filling process, by controlling a relative movement between the filling tube and bottle. The immersion depth may be kept constant during the filling process. An independent claim is included for a filling machine.

IPC 8 full level

B67C 3/26 (2006.01)

CPC (source: EP)

B67C 3/26 (2013.01); **B67C 3/286** (2013.01)

Citation (examination)

- DE 3903768 A1 19900301 - SEITZ ENZINGER NOLL MASCH [DE]
- WO 2004014779 A1 20040219 - AZIONARIA COSTRUZIONI ACMA SPA [IT], et al
- EP 1127835 A1 20010829 - KHS MASCH & ANLAGENBAU AG [DE]
- DE 19951555 A1 20010503 - BAUSCH & STROEBEL MASCHF [DE]
- DE 8811416 U1 19881020

Cited by

EP4008680A1; US9205937B2; WO2013037441A3; WO2012007075A1; EP2141115A1; DE102008030721A1; US8424575B2

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DOCDB simple family (publication)

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