

Title (en)  
Method and device for filling plastic bottles

Title (de)  
Verfahren und Vorrichtung zum Befüllen von Flaschen aus Kunststoff

Title (fr)  
Méthode et dispositif pour remplir des bouteilles en plastique

Publication  
**EP 0994067 B1 20031126 (EN)**

Application  
**EP 98810942 A 19980921**

Priority  
EP 98810942 A 19980921

Abstract (en)  
[origin: EP0994067A2] Method and device for filling plastic bottles whereby a dispensing/suction nozzle (1) is inserted into the mouth (2) at the top of a bottle. The nozzle (1) dispenses a liquid to fill the bottle and at the same time sucks out the air contained inside the said bottle. As the bottle is filled, the nozzle (1) has a frustoconical surface (6), which is made of steel, that fits tightly against an edge of the mouth (2), forming an air-tight seal around the said mouth by virtue of which seal the pressure inside the bottle can be less than the pressure in the external environment. <IMAGE>

IPC 1-7  
**B67C 3/16**

IPC 8 full level  
**B67C 3/00** (2006.01); **B67C 3/16** (2006.01); **B67C 3/26** (2006.01)

CPC (source: EP KR)  
**B67C 3/00** (2013.01 - KR); **B67C 3/16** (2013.01 - EP); **B67C 3/2634** (2013.01 - EP); **B67C 2003/266** (2013.01 - EP)

Cited by  
EP1787943A1; CN113292034A; CN113336167A; CN112938871A; CN114988338A; EP1426325A1; WO2022197318A1; US11918540B2

Designated contracting state (EPC)  
CH DE FR GB IT LI

DOCDB simple family (publication)  
**EP 0994067 A2 20000419**; **EP 0994067 A3 20000426**; **EP 0994067 B1 20031126**; AU 4882799 A 20000323; AU 751419 B2 20020815; BR 9904280 A 20000912; CA 2282799 A1 20000321; DE 69820063 D1 20040108; DE 69820063 T2 20040826; JP 2000095297 A 20000404; KR 20000023338 A 20000425

DOCDB simple family (application)  
**EP 98810942 A 19980921**; AU 4882799 A 19990921; BR 9904280 A 19990921; CA 2282799 A 19990921; DE 69820063 T 19980921; JP 26694199 A 19990921; KR 19990040632 A 19990921