

Title (en)  
Filling head for still beverages

Title (de)  
Füllorgan für stille Getränke

Title (fr)  
Tête de remplissage pour boissons plates

Publication  
**EP 1243547 B1 20050420 (DE)**

Application  
**EP 02004733 A 20020301**

Priority  
DE 10114660 A 20010324

Abstract (en)  
[origin: EP1243547A1] The filler element (5) has an outlet (6) with concentrically positioned annular nozzle (9) blowing sterile gas in the filling direction. The filler element incorporates a source of sterilizing radiation (12,13), and has a jet nozzle (15) blowing sterile gas.

IPC 1-7  
**B67C 3/26; B67C 3/04**

IPC 8 full level  
**B67C 3/00** (2006.01); **B67C 3/04** (2006.01); **B67C 3/26** (2006.01)

CPC (source: EP US)  
**B67C 3/04** (2013.01 - EP US); **B67C 3/2642** (2013.01 - EP US); **B67C 2003/228** (2013.01 - EP US); **B67C 2003/2688** (2013.01 - EP US)

Cited by  
WO2008006446A1

Designated contracting state (EPC)  
BE DE FR IT

DOCDB simple family (publication)  
**EP 1243547 A1 20020925; EP 1243547 B1 20050420**; DE 10114660 A1 20021010; DE 10114660 C2 20031016; DE 50202823 D1 20050525; JP 2002293398 A 20021009; JP 4113367 B2 20080709; US 2002134457 A1 20020926; US 6668877 B2 20031230

DOCDB simple family (application)  
**EP 02004733 A 20020301**; DE 10114660 A 20010324; DE 50202823 T 20020301; JP 2002077851 A 20020320; US 10428902 A 20020322