

Title (en)  
Filling nozzle.

Title (de)  
Füllstutzen.

Title (fr)  
Tuyère de remplissage.

Publication  
**EP 0554951 A1 19930811 (EN)**

Application  
**EP 93200260 A 19930202**

Priority  
JP 351692 U 19920203

Abstract (en)  
A filling nozzle comprises a vertical tubular nozzle body 61, an air vent pipe 62 fixedly extending through the nozzle body 61 vertically and having a projection 62a projecting downward from the body 61, a vertically movable discharge pipe 64 provided around the downward projection 62a and having an upper large-diameter portion 82 with an outside diameter permitting the portion 82 to come into contact with an opening edge of the container to be filled and a lower small-diameter portion 83 with an outside diameter permitting the portion 83 to be inserted into the opening of the container, the large-diameter portion 82 having an upper surface including a contact face 85a for a lower end face of the nozzle body 61, a seat ring 63 formed on a lower end outer face of the projection 62a for a lower end of the small-diameter portion 83 to bear on so as to form between the lower end face of the nozzle body 61 and the contact face 85a a clearance C permitting the discharge pipe 64 to move upward or downward, and a spring 66 biasing the discharge pipe 64 downward. The upper surface of the discharge pipe large-diameter portion 82 has at least a part positioned inward from the contact face 85a and formed at the same level as or a lower level than the contact face 85a. A space between the nozzle body 61 and the discharge pipe 64 is sealed off with a vertical tubular packing 67 vertically stretchable and connected between the nozzle body 61 and the discharge pipe 64. <IMAGE>

IPC 1-7  
**B67C 3/00**; **B67C 3/26**

IPC 8 full level  
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CPC (source: EP KR)  
**B67C 3/004** (2013.01 - EP); **B67C 3/26** (2013.01 - KR); **B67C 3/2634** (2013.01 - EP)

Citation (search report)  
• [A] FR 2164204 A5 19730727 - CLELAND KEITH  
• [A] US 3175591 A 19650330 - MANAS HERMAN D

Cited by  
EP2848577A1; EP2103564A1; ES2342644A1; US6889482B2; US6338370B1; US9522818B2; US6786248B2; WO2014048569A1

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