

Title (en)  
FILLING HEAD

Publication  
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Application  
**EP 91106980 A 19910430**

Priority  
• DE 4014449 A 19900505  
• DE 4102633 A 19910130

Abstract (en)  
[origin: EP0458093A2] The invention relates to a filling head for filling machines, having a liquid valve which possesses a valve member 16 movable to-and-fro on a filling-head axis between a position which closes the liquid valve 14 and a position which opens said valve, and having a discharge opening 19, provided on the underside of the filling head, for the liquid filling material. Furthermore, a gas pipe 12 is provided, which projects beyond the underside of the filling head and in which a gas duct 27 possessing a return-gas opening is formed. Furthermore, a visor-like deflector 23, moved concomitantly on opening and closing the liquid valve, is provided. The special feature of a filling head of this type consists in that the valve member 16 is movable in the direction of the underside of the filling head for opening the liquid valve 14, in that the deflector 23 closes off the discharge opening 19 in the closed position of the liquid valve, and in that the gas duct 27 possesses an enlarged cross-section at least in the region of the return-gas opening 27, in order to achieve the flow rate and prevent filling material from being carried along into the gas duct. <IMAGE>

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**B67C 3/26**

IPC 8 full level  
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**B67C 2003/2671** (2013.01 - EP US); **B67C 2003/268** (2013.01 - EP US); **B67C 2003/2685** (2013.01 - EP US)

Citation (search report)  
• [AD] DE 3909398 A1 19891116 - SEITZ ENZINGER NOLL MASCH [DE]  
• [A] DE 3325338 A1 19850131 - SICK KG OTTO [DE]  
• [A] FR 2525582 A1 19831028 - BEMEC [FR]  
• [A] EP 0235065 A1 19870902 - SEVA SOCIETE [FR]

Cited by  
ITUB20153704A1; EP0640555A1; EP0658511A1; EP2987731A1; EP3670433A1; DE102018132953A1; DE9116713U1; ITPR20130105A1;  
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