

Title (en)  
LIQUID DISPENSING DEVICE

Publication  
**EP 0040068 B1 19850807 (EN)**

Application  
**EP 81302056 A 19810508**

Priority  
US 14857780 A 19800509

Abstract (en)  
[origin: EP0040068A1] A liquid dispensing device in which there is a movable needle valve (14) operable to open and close a valve seat located within the nozzle of the dispensing device. The needle valve (14) is guided by a guide bushing (90) contained within the nozzle bore. A very small radiused semi-spherical end surface on the nozzle has been found to eliminate stringing of viscous liquid materials dispensed from the nozzle, particularly when the end surface is combined with a needle valve which is maintained concentric with the nozzle orifice by the guide bushing contained within the nozzle bore.

IPC 1-7  
**B05B 1/32**; **B05C 11/10**; **B65B 51/02**

IPC 8 full level  
**B05C 5/00** (2006.01); **B05B 1/30** (2006.01); **B05C 5/02** (2006.01); **B65B 51/02** (2006.01)

CPC (source: EP)  
**B05B 1/306** (2013.01); **B05C 5/0225** (2013.01); **B65B 51/023** (2013.01)

Cited by  
EP0066017A1; EP0588562A1; EP0107808A3; US5934521A; EP0790080A3; FR2617062A1; EP0237190A3; EP0700730A1; US5794825A; CN103785560A; CN114453196A; US2021178676A1; WO2014173071A1

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DE FR GB

DOCDB simple family (publication)  
**EP 0040068 A1 19811118**; **EP 0040068 B1 19850807**; CA 1155094 A 19831011; DE 3171682 D1 19850912; JP S574267 A 19820109

DOCDB simple family (application)  
**EP 81302056 A 19810508**; CA 376106 A 19810423; DE 3171682 T 19810508; JP 6892281 A 19810509