

Title (en)  
PIPETTING APPARATUS

Publication  
**EP 0456137 A3 19920422 (DE)**

Application  
**EP 91107231 A 19910503**

Priority  
DE 4014588 A 19900507

Abstract (en)  
[origin: EP0456137A2] A pipetting apparatus is used for suction and/or for filling vessels, preferably capillary tubes, by capillary action and for blowing liquids from vessels, preferably capillary tubes. The apparatus consists of a housing (1) with a receiver, preferably a capillary tube receiver (13, 14), a pump (2), preferably a vane cell pump, for conveying air in two directions (suction direction and blowing direction), and an air channel leading from the receiver (13, 14) to the pump (2). In order to simplify and improve a pipetting apparatus of this type, a valve (7) is provided in the air channel, which valve (7) in the rest position seals off the air channel and can be made to open. <IMAGE>

IPC 1-7  
**B01L 3/02**

IPC 8 full level  
**B01L 3/02** (2006.01)

CPC (source: EP)  
**B01L 3/021** (2013.01); **B01L 3/0213** (2013.01); **B01L 2300/0838** (2013.01)

Citation (search report)  
• [YD] DE 8814099 U1 19890209  
• [Y] US 3310002 A 19670321 - WILBURN SAM W  
• [AD] US 3719087 A 19730306 - THIERS R  
• [A] EP 0257353 B1 19901114  
• [A] US 3219417 A 19651123 - ALFRED KLINGBEIL, et al

Cited by  
FR2711075A1; DE19717361A1; DE19717361C2; DE19717361C3; WO2004062805A1

Designated contracting state (EPC)  
AT BE CH DE DK ES FR GB IT LI LU NL

DOCDB simple family (publication)  
**EP 0456137 A2 19911113; EP 0456137 A3 19920422**; DE 4014588 A1 19911114; DE 4014588 C2 19921022

DOCDB simple family (application)  
**EP 91107231 A 19910503**; DE 4014588 A 19900507