

Title (en)  
FILLING STATION FOR A CARTRIDGE FILLING AND CLOSING MACHINE

Publication  
**EP 0290747 B1 19920527 (DE)**

Application  
**EP 88104073 A 19880315**

Priority  
DE 3716119 A 19870514

Abstract (en)  
[origin: US4874022A] A filling station for a cartridge filling and sealing machine for filling viscous or pasty materials into cylindrical cartridges having a filler valve, a positioning and centering device for positioning and centering the cartridges in a position in alignment with the filler valve, and a displacement drive for adjusting the positioning of the positioning and centering device the filler valve in relation to each other. In order to assure an exactly centered position of the cartridge prior to inserting the filler valve into the cartridge as well as dependable support of the cartridge in a non-deforming way prior to and during filling, the positioning and centering device has a unit and at least one vacuum suction holder disposed in the unit. The unit has a contact surface adapted to the outer shape of the cartridge. The vacuum suction holder is formed by a suction hose the open end of which is disposed in the unit.

IPC 1-7  
**B65B 43/54**

IPC 8 full level  
**B65B 3/04** (2006.01); **B65B 43/54** (2006.01)

CPC (source: EP US)  
**B65B 43/54** (2013.01 - EP US)

Cited by  
DE102011005741B3; DE4419498A1; DE202012005857U1; EP0685396A1; EP0711982A2

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

DOCDB simple family (publication)  
**EP 0290747 A2 19881117; EP 0290747 A3 19891025; EP 0290747 B1 19920527**; AT E76614 T1 19920615; DE 3716119 A1 19881124; DE 3871436 D1 19920702; ES 2031170 T3 19921201; JP S63307001 A 19881214; US 4874022 A 19891017

DOCDB simple family (application)  
**EP 88104073 A 19880315**; AT 88104073 T 19880315; DE 3716119 A 19870514; DE 3871436 T 19880315; ES 88104073 T 19880315; JP 11499088 A 19880513; US 19578188 A 19880505