

Title (en)  
CARTRIDGE FOR PLASTIC MASSES HAVING SEVERAL COMPONENTS

Publication  
**EP 0502519 A3 19921202 (DE)**

Application  
**EP 92103764 A 19920305**

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• DE 9102635 U 19910306  
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Abstract (en)  
[origin: US5301842A] An apparatus proportions and dispenses at least two different plastic materials such as, two component adhesives or sealants in which the components are stored separately from one another before use and are mixed with one another only for use. The apparatus includes a multichamber cartridge made from injection-molded plastic with at least two cartridge tube wall parts located one inside the other to form at least two chambers that receive one material component each. An end wall part is located at the anterior end of the cartridge tube wall parts on which a mouthpiece for dispensing the plastic material components from the cartridge is formed. Piston elements are inserted in the rear end of the cartridge tube wall parts to express the material components. The end wall part is formed as a separate head piece and the cartridge tube wall parts likewise are formed from two separately manufactured parts. Snap connections are provided to connect the cartridge tube wall parts with the head piece. The invention allows the cartridge tube wall parts and the cartridge end wall part each to be manufactured separately, so that the required injection-molding tools can be very simple in design and inexpensive. The injection-molding tools for the tube wall parts do not require any lateral slide functions, and the necessity for residual lateral slide functions is reduced to the injection-molding tool for the relatively small cartridge end wall part.

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IPC 8 full level  
**B29C 45/00** (2006.01); **B65D 47/06** (2006.01); **B65D 47/26** (2006.01); **B65D 81/32** (2006.01); **B65D 83/00** (2006.01); **B65D 83/76** (2006.01)

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**B65D 81/325** (2013.01 - EP US); **B05C 17/00513** (2013.01 - EP US); **B05C 17/00516** (2013.01 - EP US)

Citation (search report)  
• [Y] EP 0105181 A2 19840411 - LIQUID CONTROL INT [US]  
• [Y] EP 0191727 A1 19860820 - COLTENE AG [CH]  
• [A] DE 3301383 A1 19840719 - ARBERGER VERPACKUNGEN [DE], et al

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**US 5301842 A 19940412**; DE 59200027 D1 19940113; EP 0502519 A2 19920909; EP 0502519 A3 19921202; EP 0502519 B1 19931201; ES 2049116 T3 19940401; JP H0872945 A 19960319

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**US 83942892 A 19920221**; DE 59200027 T 19920305; EP 92103764 A 19920305; ES 92103764 T 19920305; JP 8327192 A 19920305