

Title (en)  
PLASTIC LID FOR BLOW MOULDED PLASTIC BARRELS

Publication  
**EP 0424897 A3 19920408 (DE)**

Application  
**EP 90120363 A 19901024**

Priority  
DE 3935693 A 19891026

Abstract (en)  
[origin: US5074428A] Such synthetic resin lids comprise an outer rim (4) encompassing the barrel neck (3) and an inner rim (5) entering into the barrel neck (3) and projecting beyond the lid bottom (6) below the barrel opening, as well as a sealing ring inserted between the outer rim (4) of the lid and the inner rim (5) of the lid. This sealing ring is urged by means of a clamping ring (10) or tightening wire against the opening rim (14) of the barrel neck (3), the clamping ring (10) or tightening wire extending over a flange (11) or flange sections molded to the outer rim (4) of the lid at the bottom and extending underneath a solid border (12) which latter protrudes radially toward the outside at a spacing below the barrel opening from the barrel wall. This border can be designed as a continuously extending flange or can be subdivided into flange sections. An axially projecting annular web (8) is molded to the base of an annular chamber (7) formed by the outer and inner rims (4 and 5, respectively) of the lid. This annular web, when the lid (1) is closed, transmits axial forces caused by stacking, dropping, etc. directly into the barrel neck (3). Sealing rings (13) are arranged on both sides of the annular web (8) which rings, when the lid (1) is closed, rest with pretensioning on the opening rim (14) of the barrel neck (3).

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IPC 8 full level  
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Citation (search report)  
• [A] EP 0315759 A2 19890517 - SOTRALENTZ SA [FR]  
• [AD] DE 2544491 A1 19770414 - MAUSER KG  
• [A] DE 3108442 A1 19821230 - MAUSER WERKE GMBH [DE]  
• [A] US 4331249 A 19820525 - BANICH SR JOHN N  
• [A] US 3532244 A 19701006 - YATES GEORGE JR

Cited by  
AU662329B2; DE4126784C2; EP0602553A3

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