

Title (en)
CLOSURE WITH A SNAP-TYPE HINGE

Publication
EP 0385078 B1 19920304 (DE)

Application
EP 90100873 A 19900117

Priority
DE 3906570 A 19890302

Abstract (en)
[origin: EP0385078A1] A one-piece plastic closure comprises a lower part (1), a lid (3) and a snap hinge (6). In order to connect the lower part directly to the lid (3), the snap hinge comprises one or more film hinges (8) aligned in the main axis of rotation (10). The snap hinge comprises at least one elastic element (14) which, in the closed position, does not project beyond the external profile of the adjacent sections of the lower part and of the lid, but is as flush as possible with them. The elastic element is connected to the lid and the lower part by linear articulations (16) parallel to the main axis of rotation, at a certain distance from the latter. At least one film hinge is located with the necessary play on the outer faces of the lower part and of the lid. The sections of the lower part and of the lid immediately adjacent to the film hinge have marginal surfaces (22, 24) inclined to their outer face (bevelled edges) which in the closed position are adjacent and in the open position swivel apart. In the closed position of such a closure, the film hinges do not project outward. Instead, they are located in the outer wall of the lower part and in one edge or outer wall of the lid. The lid and the lower part can also be connected by a small strip (30) or several aligned small strips. In this case, the small strip is fully retracted inside the outer profile when the closure is closed.

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IPC 8 full level
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CPC (source: EP KR US)
B65D 47/0814 (2013.01 - EP KR US); **E05D 1/02** (2013.01 - EP KR US); **E05Y 2999/00** (2024.05 - EP KR US)

Citation (examination)
• DE 1808875 A1 19690703 - AMERICAN OPTICAL CORP
• US 4371095 A 19830201 - MONTGOMERY GARY V, et al

Cited by
US5423442A; US5361920A

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