

Title (en)  
Foldable carrying device

Title (de)  
Zusammenklappbare Tragevorrichtung

Title (fr)  
Dispositif de support pliable

Publication  
**EP 2550891 A1 20130130 (EN)**

Application  
**EP 11006153 A 20110726**

Priority  
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Abstract (en)  
The present invention relates to a mechanical flap means (1), comprising: - a top support element (11) comprising a support structure (111) and a pocket (112) integrally engaged to the support structure (111) and adapted to receiving an element (113) exerting a restoring force when received in said pocket (112); - a bottom support element (12) comprising a support structure (121) and a pocket (122) integrally engaged to the support structure (121) and adapted to receiving an element (123) exerting a restoring force when received in said pocket (122); - at least one articulation function element (14) providing the top support element (11) and the bottom support element (12) with an articulating function relative to each other, thereby allowing a reversible folding of the top support element (11) towards the bottom support element (12) or vice versa ; and - at least one element (113, 123, 13) capable of exerting a restoring force to the top and bottom support elements (11, 12) when received in at least one of the pockets (112, 122) of the top and bottom support elements (11, 12). The invention also relates to a foldable carrying device (100) comprising the above mechanical flap means (1).

IPC 8 full level  
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Citation (applicant)  
• DE 20301158 U1 20030320 - REISENTHHEL PETER [DE]  
• WO 2011016063 A1 20110210 - GT LINE S R L [IT], et al  
• US 2011142374 A1 20110616 - DECK MARY JANE [US], et al

Citation (search report)  
• [X] FR 1403891 A 19650625  
• [X] US 2730153 A 19560110 - GEORGE MILLER, et al  
• [X] GB 2121768 A 19840104 - PACKAGING BY FORMING IND INC  
• [X] US 6513672 B1 20030204 - OVADIA JOSEPH [US]

Cited by  
US10017299B2; EP3849914A4

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