

Title (en)  
SOFT BAG AND EXPANDER

Publication  
**EP 0404448 A3 19910206 (EN)**

Application  
**EP 90306524 A 19900614**

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• US 36775989 A 19890619  
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Abstract (en)  
[origin: EP0404448A2] An expander for insertion into and expansion of a soft bag (20, 40, 302) comprising a device (10, 11, 13, 15, 136, 137, 200, 250, 300, 350) which is folded or collapsed to a flat state or spread apart to an expanded state. The soft bag is collapsed to a compact form in the flat state for shipment. In the expanded position, the bag is expanded to give the appearance that it is filled. Some embodiments use a resilient member (18, 38, 146, 230, 280, 281, 330, 380) to automatically urge the device from a flat position to its expanded position when compressive forces are removed from the bag. Other forms use a cord (72, 98, 150) for manually moving the expander device into its bag-expanding position. To provide for a greater extent of expansion in relation to the length of the device in the flat position, an expanding device (200, 250, 300, 350) having four sequentially arranged sections (211-214, 261-264, 311-314, 361-364), each of which is articulatable with respect to each adjacent section is provided in some embodiments. Expansion of a cylindrical bag (302) is facilitated by a generally rigid insert (333, 334, 382) in certain embodiments that is articulatable to better conform to the curved shape of the side portions.

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**A45C 13/004** (2013.01)

Citation (search report)  
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