

Title (en)
FLAT BOTTOMED PLASTIC BAG

Title (de)
KUNSTSTOFFBEUTEL MIT FLACHEM BODEN

Title (fr)
SAC EN MATIERE PLASTIQUE A FOND PLAT

Publication
EP 1003678 A4 20041208 (EN)

Application
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- US 9223398 P 19980709
- US 25734599 A 19990225
- US 25784899 A 19990225
- US 25801099 A 19990225
- US 25803399 A 19990225
- US 25784399 A 19990225
- US 25801599 A 19990225
- US 25736199 A 19990225

Abstract (en)
[origin: WO9964307A1] An expandable plastic film gusseted bag in which each front panel gusset (64, 66) is connected to a rear panel gusset and each of the panel gussets is foldable between the front panel (63) and the rear panel to provide a continuous bag periphery. A bottom joins the bottom of the front panel, rear panel, two rear panel gussets and two front panel gussets at substantial right angles to the side edges of the front panel, rear panel, and gussets to close the bottom of the bag and leave only the top (62) open. The improvement provides the plastic bag with eight first linear folding axes adjacent the bottom. A linear folding axis is located within the front panel, each front panel gusset, the rear panel, and each rear panel gussets. Each folding axis extends from the joinder of a gusset at the bottom to a side edge of the front panel or the rear panel and the front panel gusset or the rear panel gusset at an approximate 45 DEG angle. The folding axes are made by a process restricted to a group consisting of a cold seal and a hinge in the plastic film while the film is planar. On opening of the expandable gusseted bag, the bottom seal of the bag disposed adjacent the gussets forms a generally triangular shaped overlay relative to the gussets to form a flat bottom bag.

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Citation (search report)

- [DYA] US 3915077 A 19751028 - LAFLEUR LEE, et al
- [Y] GB 1117284 A 19680619 - HONSEL KARL HEINZ
- [DA] US 4717262 A 19880105 - ROEN RALPH M [US], et al
- [A] US 5135464 A 19920804 - BUCHANAN JERRY E [US]
- [A] US 3292513 A 19661220 - PALMER CHARLES E
- [A] US 2599567 A 19520610 - MCCRERY HAROLD E, et al
- See references of WO 9964307A1

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