

Title (en)
FOLDING BOX WITH FOLDING BELLOWS

Title (de)
FALTSCACHTEL MIT FALTBÄLGEN

Title (fr)
BOITE PLIANTE A SOUFFLETS PLIANTS

Publication
EP 1740470 A2 20070110 (DE)

Application
EP 05726336 A 20050422

Priority

- EP 2005051809 W 20050422
- EP 04101697 A 20040423
- EP 05726336 A 20050422

Abstract (en)
[origin: WO2005075300A2] The invention concerns collapsible or folding parallelepiped, cubic or hexagonal boxes, comprising a base wall and four side walls, which are hinged successively, in each case via folding bellows arranged in the angular zones of the box, such that said folding box can shift from a flat position, wherein the folding bellows are flat and separated from one another, into a projecting position, wherein the folding bellows are assembled by compression. In flat position, each horizontal plane of the folding bellows is divided by a diagonal or oblique hinge axis, into an inner zone and into an outer zone, which are oriented, in each case one towards the other, as well as the respective outer zone, are fixed so as to be layered, against the inner face of the side wall of the closest side wall. At least one of the side walls is, together with two folding bellows, in the form of a common part and is fixed on the base wall. Those two folding bellows is each hingedly adjacent one of the two opposite ends of the side wall.

IPC 8 full level
B65D 5/36 (2006.01); **B65D 5/32** (2006.01); **B65D 5/66** (2006.01)

CPC (source: EP US)
B65D 5/322 (2013.01 - EP US); **B65D 5/36** (2013.01 - EP US); **B65D 5/6673** (2013.01 - EP US); **B65D 2313/02** (2013.01 - EP US); **B65D 2313/04** (2013.01 - EP US)

Citation (search report)
See references of WO 2005075300A2

Cited by
WO2011117208A1; ITMI20100495A1; DE102016210834A1; DE202014102149U1; US8134829B2; WO2020104360A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2005075300 A2 20050818; WO 2005075300 A3 20051110; AT E395268 T1 20080515; DE 202005020909 U1 20061019; DE 502005004124 D1 20080626; EP 1740470 A2 20070110; EP 1740470 B1 20080514; EP 1740470 B9 20081001; ES 2307164 T3 20081116; US 2008011746 A1 20080117

DOCDB simple family (application)
EP 2005051809 W 20050422; AT 05726336 T 20050422; DE 202005020909 U 20050422; DE 502005004124 T 20050422; EP 05726336 A 20050422; ES 05726336 T 20050422; US 58731907 A 20070731