

Title (en)

Hinge arrangements, their construction and use.

Title (de)

Scharniervorrichtung, seine Konstruktion und seine Verwendung.

Title (fr)

Dispositif de charnière, sa construction et son application.

Publication

**EP 0612904 A3 19950510 (EN)**

Application

**EP 94301392 A 19940228**

Priority

GB 9303919 A 19930226

Abstract (en)

[origin: EP0612904A2] A frictionless hinge arrangement comprises two hinge components, each having a hinge surface, the hinge surfaces confronting each other, and connected hingedly close together by a plurality of thin pliable connecting straps, of which each such strap passes between the confronting surfaces of the two hinge components, thus very slightly separating them; the straps being disposed in approximately s-shape and reverse s-shape arrangement alternately in one sense and in the other to allow the adjacent hinge surfaces to roll on each other (with the straps in between) when the hinge is opened or closed, each strap being secured fixed on each side in relation to a respective one of the hinge components; wherein on each side, each of the flexible straps is provided with a lug accommodated in a slot or socket formation associated with one of the hinge parts (thus fixing the lug in relation to one of the hinge parts), so that the slot or socket formation retains the lug and the associated end of the strap against movement lengthwise relative to the hinge parts as well as against disassembly by any pulling-forces exerted on the flexible strap. The end of the flexible strap that forms part of the snap-in fixing can be accessible by a user's hand or by a tool to allow the complementary formations to be dislodged and thereby disassembled. The hinges (and kits of parts for making them) are applicable for example to fold-up displays, space frames, constructional display systems, folding or other hinged doors and partitions for office furniture, dividers, doors and gates, as well as almost any other application requiring hinge function. In such hinge arrangements the ends of the flexible straps can be provided with springy folded-back tongue extensions to help retain the lugs in engagement with the socket formations. <IMAGE>

IPC 1-7

**E05D 1/00**

IPC 8 full level

**E05D 1/00** (2006.01)

CPC (source: EP)

**E05D 1/00** (2013.01); **E05Y 2900/20** (2013.01)

Citation (search report)

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Designated contracting state (EPC)

DE ES FR IT

DOCDB simple family (publication)

**EP 0612904 A2 19940831**; **EP 0612904 A3 19950510**; AU 5646394 A 19940901; GB 2275504 A 19940831; GB 9303919 D0 19930414; GB 9403775 D0 19940420

DOCDB simple family (application)

**EP 94301392 A 19940228**; AU 5646394 A 19940228; GB 9303919 A 19930226; GB 9403775 A 19940228