

Title (en)  
METHOD OF MANUFACTURING MALE ELEMENTS FOR HINGE DEVICES

Publication  
**EP 0190636 B1 19900926 (EN)**

Application  
**EP 86101044 A 19860127**

Priority  
IT 8251085 A 19850204

Abstract (en)  
[origin: EP0190636A2] The method of manufacturing sealed hollow male elements for hinge devices comprises the steps of shearing a segment off a drawn rod, and successively causing the material to flow laterally upwards such as by cold impact extrusion by means of a punch, to form a hollow body (5) of constant cross section having an open end. Thereafter, there is performed on said hollow body (5), as by impact with a die, a reduction of one portion at the open end (14), thus defining a hollow pin (8) having an open end (14). The latter is then stopped by press fitting a shaped body (13) thereinto.

IPC 1-7  
**B21K 13/02**; **E05D 5/10**; **E05D 11/04**

IPC 8 full level  
**B21K 13/02** (2006.01); **E05D 5/10** (2006.01); **E05D 11/04** (2006.01)

CPC (source: EP)  
**B21K 13/02** (2013.01); **E05D 5/10** (2013.01); **E05D 11/04** (2013.01); **E05D 2005/102** (2013.01); **E05D 2011/045** (2013.01)

Cited by  
AU2016204754B2

Designated contracting state (EPC)  
CH DE FR LI

DOCDB simple family (publication)  
**EP 0190636 A2 19860813**; **EP 0190636 A3 19861001**; **EP 0190636 B1 19900926**; DE 3674424 D1 19901031; ES 292092 U 19860601; ES 292092 Y 19870216; IT 1202019 B 19890202; IT 8582510 A0 19850204

DOCDB simple family (application)  
**EP 86101044 A 19860127**; DE 3674424 T 19860127; ES 292092 U 19860203; IT 8251085 A 19850204