12

EUROPEAN PATENT APPLICATION

Application number: 86101044.5

Date of filing: 27.01.86

Int. Cl.4: **B 21 K 13/02**, E 05 D 11/04, E 05 D 5/10

30 Priority: 04.02.85 IT 8251085

Applicant: OTLAV S.p.A., Via A. Volta 26, I-31025 Sarano Frazione di Santa Lucia di Piave (Treviso) (IT)

Date of publication of application: 13.08.86

Bulletin 86/33

Inventor: Manzallni, Norberto, Via Vecchia Trevigiana 143, I-31015 Conegliano (IT)

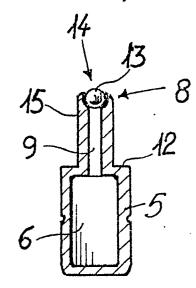
Designated Contracting States: CH DE FR LI

Date of deferred publication of search report: 01.10.86 Bulietin 86/40

Representative: Modiano, Guido et al, MODIANO, JOSIF, PISANTY & STAUB Modiano & Associati Via Meravigli, 16, 1-20123 Milan (IT)

Method of manufacturing male elements for hinge devices and male elements obtained thereby.

57 The method of manufacturing seald 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.





EUROPEAN SEARCH REPORT

Application number

EP 86 10 1044

DOCUMENTS CONSIDERED TO BE RELEVANT				
Category		h indication, where appropriate, ant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
A,D	DE-A-2 808 411 * Figures 3-10; lines - page 9,	page 7, two last	1-4,7,	B 21 K 13/02 E 05 D 11/04 E 05 D 5/10
А	DE-A-2 916 560 GMBH) * Figures 1,2 lines 17-39 *	- (SCHARWÄCHTER ,7,11; page 20,	1,5	
A	DE-A-3 307 529 * Figures 2,3; 4 *	- (W. PFÄFFLI) page 7, paragraph	5-8	
				TECHNICAL FIELDS SEARCHED (Int. Cl.4)
				B 21 K E 05 D
	The present search report has t	een drawn up for all claims		
Place of search THE HAGUE Date of completion of the search 10-07-1986			SCHEI	Examiner BLING C.D.A.
A: te	CATEGORY OF CITED DOCU articularly relevant if taken alone articularly relevant if combined we becoment of the same category chnological background on-written disclosure termediate document	E : earlier patter the sitter another D : docume L : docume	patent document, of filing date ent cited in the apent cited for other r of the same pate	lying the invention but published on, or plication reasons ent family, corresponding