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(54) **Vehicle door latch undogging mechanism**

(57) The door latch (10) has a rotatable fork bolt (30) that engages a striker pin (91). A detent (32) is pivotable into engagement with the fork bolt to latch the door latch. An intermittent lever (34) is pivotally attached to the detent. An unlatching lever (44) has an ear (46) that is pivotable into contact with a tab (48) on the intermittent lever to release the fork bolt. A pivotable locking lever (40) has a slot (41) that pivotally receives a pivot pin (38) on the intermittent lever. A cam surface (152) on the fork

bolt engages the detent and moves the intermittent lever away from the fork bolt when the fork bolt is rotated toward a latched position by the striker pin. A cam follower (160) on the intermittent lever follows a cam surface (162) on the unlatching lever and moves the locking lever to an unlocked position. Holding an outside door handle in an open position when the door is closed moves the cam surface on the unlatching lever out of contact with the cam follower and leaves the locking lever locked.

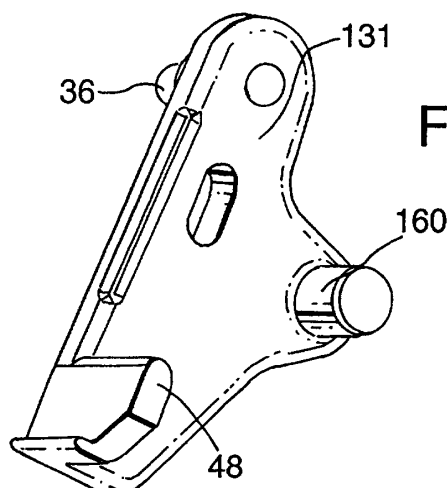


Fig.2A.

Fig.2B.

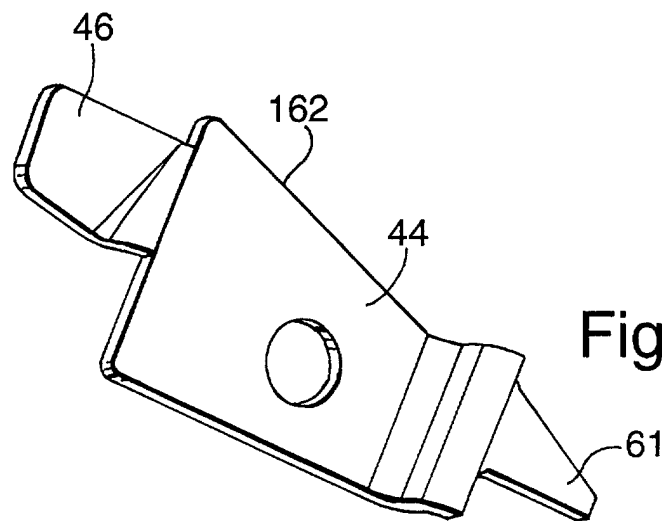
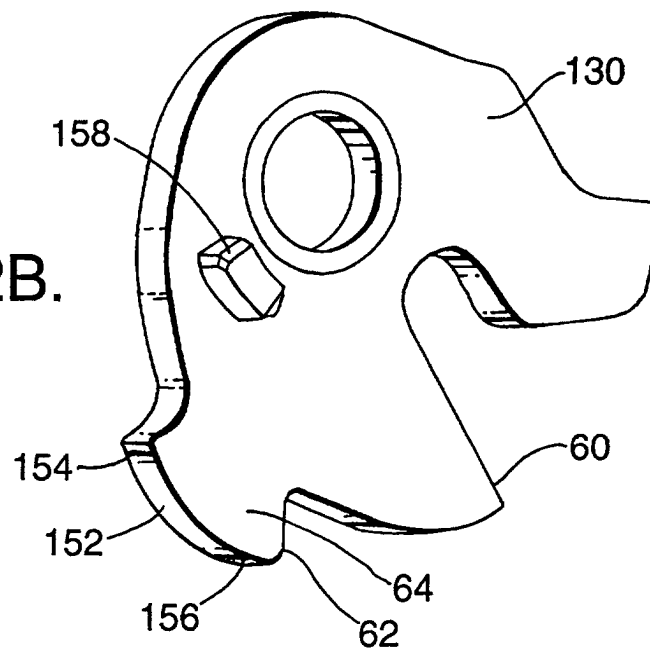


Fig.2C.



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EUROPEAN SEARCH REPORT

Application Number
EP 01 20 1008

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	US 5 984 384 A (GOMI YOSHIHITO ET AL) 16 November 1999 (1999-11-16)	6	E05B65/20
A	* column 4, line 51 - column 5, line 23; figures 8,9 *	1	E05B65/32

D,A	US 5 277 461 A (DZURKO THOMAS A ET AL) 11 January 1994 (1994-01-11)	1,6	
	* the whole document *		

A	EP 0 743 413 A (ROCKWELL LVS) 20 November 1996 (1996-11-20)	1,6	
	* column 5, line 17 - column 6, line 2; figure *		

A	US 4 196 925 A (TORII NOZOMU) 8 April 1980 (1980-04-08)	1,6	
	* column 4, line 57 - column 5, line 25; figures 3,5 *		

			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			E05B
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
THE HAGUE		19 March 2003	Pieracci, A
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 01 20 1008

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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19-03-2003

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5984384 A	16-11-1999	JP 11107598 A	20-04-1999
		DE 19845125 A1	06-05-1999
		GB 2329927 A , B	07-04-1999
US 5277461 A	11-01-1994	DE 69306232 D1	09-01-1997
		DE 69306232 T2	27-03-1997
		EP 0603934 A1	29-06-1994
EP 0743413 A	20-11-1996	GB 2300875 A	20-11-1996
		EP 0743413 A1	20-11-1996
		WO 9635853 A1	14-11-1996
		JP 11505001 T	11-05-1999
		US 6305727 B1	23-10-2001
US 4196925 A	08-04-1980	JP 1054519 C	23-07-1981
		JP 54006227 A	18-01-1979
		JP 55050155 B	16-12-1980