



(1) Publication number:

0 610 882 A3

(12)

EUROPEAN PATENT APPLICATION

(21) Application number: 94101891.3

(51) Int. CI.5: **B60R** 7/06, E05C 19/02

(2) Date of filing: 08.02.94

Priority: 12.02.93 JP 9389/93 12.02.93 JP 46071/93

Date of publication of application:17.08.94 Bulletin 94/33

Designated Contracting States:
DE FR GB

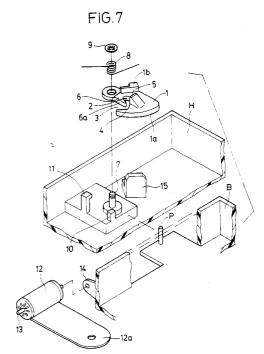
Date of deferred publication of the search report: 28.12.94 Bulletin 94/52 Applicant: Kato Hatsujo Kaisha Ltd. 51 Iwai-cho Hodogaya-ku Yokohama-shi Kanagawa-ken (JP)

Inventor: Asano, Kazunori 8-3, Zaimokuza 3-chome Kamakura-shi, Kanagawa-ken (JP)

Representative: Lewald, Dietrich, Dipl.-Ing. Patentanwalt Pienzenauerstrasse 2 D-81679 München (DE)

(54) Storage device with safety function.

(5) A storage device includes a cam member (1) rotatably disposed on a housing (H) side, a pin member (P) disposed on a storage cabinet (B) side, a lock part (4) and a guide outlet (5) formed so as to be mutually separated on one edge side defining a cam groove (2) of the cam member, and a stopper guide wall (6) integrally formed on the other edge side opposite to the one edge so as to project between the lock part and the guide outlet. The lock part fulfills the role of fastening the pin member positioned outside of the stopper guide wall so that the storage cabinet will be locked at the shut position thereof inside the housing against the biasing force of a spring (12) by the joint action of the cam member and the pin member and so that the storage cabinet will be enabled by farther depression of the storage cabinet into the housing to be automatically moved in the opening direction thereof from the opening of the housing. The stoage device is allowed to manifest a safety function for coping with the impact exerted on the rear side of an automobile carrying the storage device as well as on the front side thereof by a regulating wall (15) within the housing at a position capable of limiting the amount of rotation of the cam member when the cam member happens to rotate in the direction of releasing the pin member, by providing the cam member with an adjusting part (16) for causing the center of gravity of the cam member and the axis of rotation of the cam member to coincide with each other, or by making the cam member thicker at the lock part other than the remaining part of the cam member.





EUROPEAN SEARCH REPORT

Application Number EP 94 10 1891

Category	Citation of document with indicati of relevant passages		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.5)	
A	WO-A-92 10384 (NIFCO IN * abstract * & GB-A-2 261 698 (NIFCO * the whole document *	·	1-3	B60R7/06 E05C19/02	
D,P, A	EP-A-0 561 113 (KATO HA	ATSUJO KAISHA LTD.)	1-3		
	* the whole document *				
A	US-A-5 052 728 (FUKUMO* the whole document *	ro)	1-3		
A	FR-A-2 579 181 (HEULIE * the whole document *	Z D.E.A.)	1-3		
A	FR-A-2 549 123 (AUTOMOR AUTOMOBILES CITROEN) * the whole document *	BILES PEUGOT ET	1-3		
A	FR-A-2 003 709 (SIDLER G.M.B.H. METALLWARENFAL * the whole document *		1-3	TECHNICAL FIELDS SEARCHED (Int.Cl.5)	
A	US-A-4 635 763 (OMATA) * the whole document *		1-3	E05C E05B B60R B60N	
A	US-A-4 462 630 (OMATA) * the whole document *		1-3	Book	
	The present search report has been do	rawn up for all claims			
	Place of search	Date of completion of the search		Examiner	
	THE HAGUE	28 October 1994	Ve	stin, K	
Y:pau do:	CATEGORY OF CITED DOCUMENTS ticularly relevant if taken alone ticularly relevant if combined with another cument of the same category hnological background	T: theory or princi E: earlier patent di after the filing D: document cited L: document cited	ocument, but pull late in the application for other reasons	blished on, or on	
O : non-written disclosure P : intermediate document		&: member of the : document	& : member of the same patent family, corresponding		