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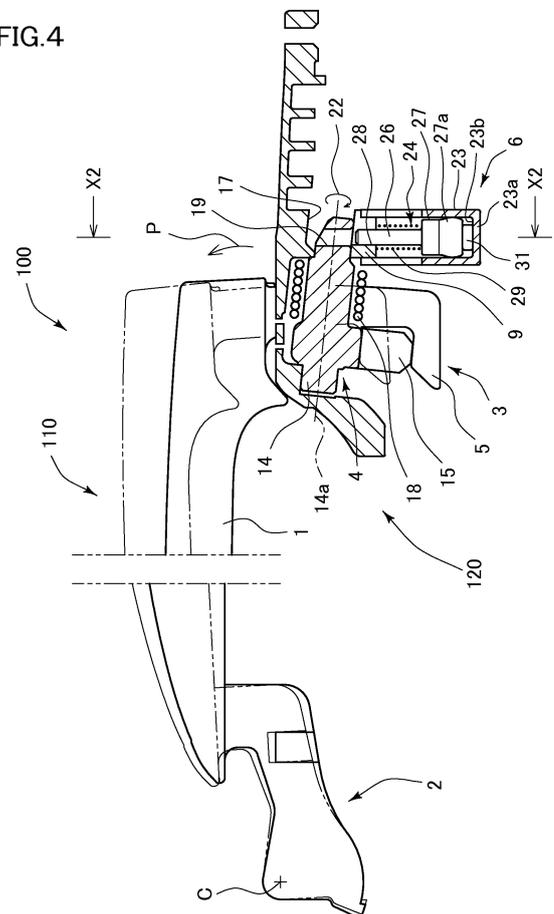
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(54) **Vehicular door handle device**

(57) A lock pin 24 which can be fitted toward a pin-fitting hole 19 (lock pin hole) formed in a shaft 14 (restriction member) of a bell crank 4 is disposed in the turn-motion guide 6 (operation guide) of a base member 120. The base member 120 is provided with a case body 23 (cover body) which covers the base end 27 of the lock pin 24 from outside and which slidably supports the base end 27. A soft body 31 (cushion material) is interposed between the base end 27 of the lock pin 24 and a bottom 23b of the case body 23 opposed to the base end 27 in a state where the soft body 31 is fixed to the base end 27 of the lock pin 24. When the lock pin 24 is disposed at a normal position, the base end 27 of the lock pin 24 is supported by the bottom 23b of the case body 23 through the soft body 31.

The invention provides a vehicular door handle device capable of preventing hammering sound from being generated by collision between a lock pin and a cover body.

FIG.4





EUROPEAN SEARCH REPORT

Application Number
EP 13 18 2827

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A,D	JP 4 671296 B2 (SAKAE RIKEN KOGYO CO LT) 13 April 2011 (2011-04-13) * figure 10 *	1-5	INV. E05B85/16 E05B77/38 E05B77/06
A	JP 4 907616 B2 (SAKAE RIKEN KOGYO CO LTD) 4 April 2012 (2012-04-04) * paragraph [0024]; figures 6,7 *	1-5	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC)
			E05B
Place of search		Date of completion of the search	Examiner
The Hague		10 November 2016	Van Beurden, Jason
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 13 18 2827

5 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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10-11-2016

10	Patent document cited in search report	Publication date	Patent family member(s)	Publication date
15	JP 4671296 B2	13-04-2011	JP 4671296 B2 JP 2008127888 A	13-04-2011 05-06-2008
20	JP 4907616 B2	04-04-2012	JP 4907616 B2 JP 2010065456 A	04-04-2012 25-03-2010
25	-----			
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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82