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(54) **Fastening device suitable for use with needle detectors**

(57) A fastening device (20) designed to be suitably used with needle detectors. The fastening device (20) does not trigger alarms from needle detectors. The fastening device (20) comprises a frame having a plurality of metallic strips (22, 26) coupled contiguously to form an enclosure. The plurality of metallic strips (22, 26) are selected from a group of metallic materials having different ferromagnetic responses and at least two of said selected metallic strips have different ferromagnetic responses. Thereby when said fastening device (20) is attached to a garment and said garment is passed through a needle detector, said fastening device (20) does not trigger a false alarm from said needle detector. A tongue (30) is further attached to one of the metallic strips (26).

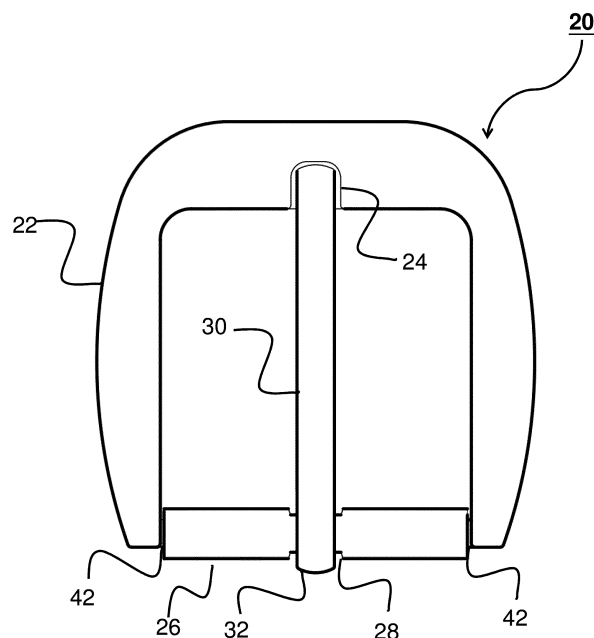


Fig.1



EUROPEAN SEARCH REPORT

 Application Number
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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)
X	JP 2004 135745 A (CITIZEN WATCH CO LTD) 13 May 2004 (2004-05-13)	1,2,10	INV. A44B11/00 A44B11/24 A41F9/00 A41F1/00
Y	* abstract; figures 8,1 * * paragraphs [0001], [0021], [0022], [0035], [0037] *	3-8, 11-13	
Y	EP 0 693 261 A1 (YKK CORP [JP]) 24 January 1996 (1996-01-24) * abstract * * column 1 - column 2 *	3-8, 11-13	
X	DE 20 2010 004353 U1 (KIEFFER GEORG SATTLERWAREN [DE]) 26 July 2011 (2011-07-26) * abstract; figures 1-3 * * page 5 *	1 10	
Y	US 2012/252965 A1 (COFFMAN PHILLIP R [US]) 4 October 2012 (2012-10-04) * abstract; figure 3 * * paragraph [0034] *	1-8, 10-13	
Y	EP 1 938 705 A2 (YKK CORP [JP]) 2 July 2008 (2008-07-02) * abstract * * paragraphs [0002], [0003], [0048], [0049], [0057], [0058] *	1-8, 10-13	TECHNICAL FIELDS SEARCHED (IPC) A41F A44B
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 18 November 2015	Examiner da Silva, José
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			

EPO FORM 1503 03.82 (P04C01)

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

EP 13 18 8778

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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18-11-2015

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 2004135745 A	13-05-2004	NONE	
EP 0693261 A1	24-01-1996	EP 0693261 A1	24-01-1996
		JP H0824019 A	30-01-1996
		TW 276985 B	01-06-1996
		US 5658679 A	19-08-1997
DE 202010004353 U1	26-07-2011	NONE	
US 2012252965 A1	04-10-2012	NONE	
EP 1938705 A2	02-07-2008	BR PI0705517 A	19-08-2008
		CN 101209143 A	02-07-2008
		EP 1938705 A2	02-07-2008
		JP 2008161246 A	17-07-2008
		US 2008155796 A1	03-07-2008