

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
6 April 2006 (06.04.2006)

PCT

(10) International Publication Number
WO 2006/036344 A3

(51) International Patent Classification:
A44B 9/14 (2006.01)

(21) International Application Number:
PCT/US2005/029117

(22) International Filing Date: 16 August 2005 (16.08.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/610,525 17 September 2004 (17.09.2004) US

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(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

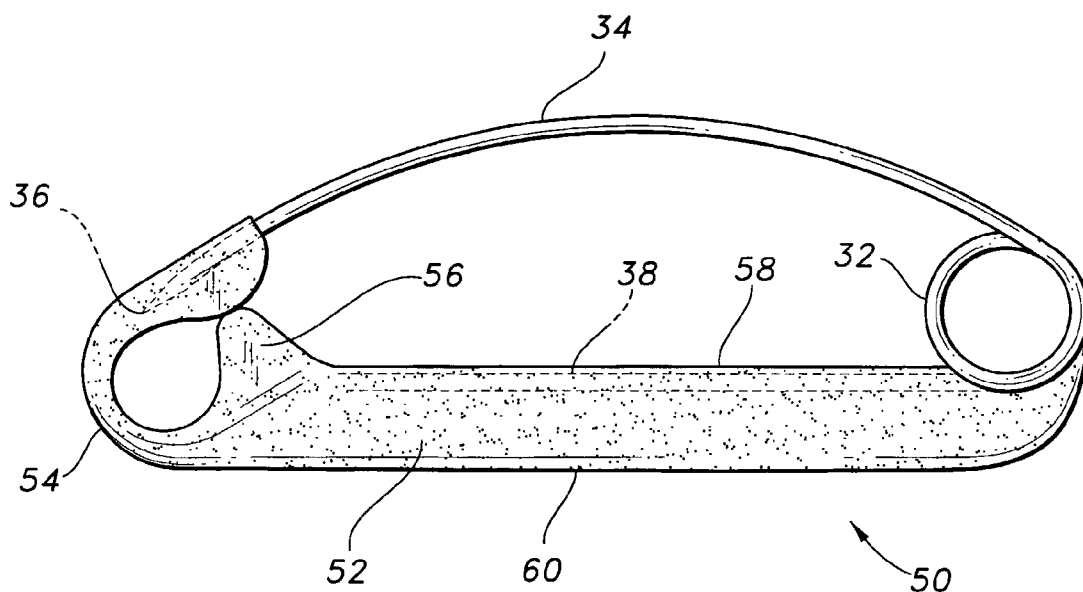
Published:

— with international search report

(88) Date of publication of the international search report:
4 January 2007

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SAFETY PIN WITH ARCUATE PIN BAR



(57) Abstract: The safety pin 50 with an arcuate pin bar 34 is formed from pin wire bent in the middle to form a coil 32 having a stationary bar 38 extending from one end of the coil 32 and a pin bar 34 with a pointed end 36 extending from the opposite end of the coil 32. The pin bar 34 is arcuate, or formed with an arch. The stationary bar 38 has a shield 54 attached thereto, the end of the stationary bar 38 being bent backward or the shield 54 being attached to the end of the stationary bar 38 so that the shield 54 extends at an angle complementary to the curvature of the pin bar 34. The stationary bar 38 may have a textured or roughened fin 52 formed thereon, and may have linear inner 58 and outer 60 edges, a straight inner edge and convex outer edge, or a concave inner edge and convex outer edge.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/29117

A. CLASSIFICATION OF SUBJECT MATTER

IPC: A44B 9/14(2006.01)

USPC: 24/709.9

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 24/709.9,709.6-709.8,710-710.2

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2002-112805 A (YAMAZAKI) 16 April 2002 (16.04.2002), see figures 1-5.	1
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Y		2-20
Y	US 3293712 A (MARK) 27 December 1966 (27.12.1966), see figure 1.	2-9 & 11-20
Y	US 5412851 A (JOSEPH) 09 May 1995 (09.05.1995), see figure 1.	3 & 12
Y	US 3806997 A (NIWA) 30 April 1974 (30.04.1974), see figure 2.	4,5,13,14 & 20
Y	US 720106 A (BROWN) 10 February 1903 (10.02.1903), see figure 2.	5,7,14 & 16
Y	US 3268966 A (NICKERSON) 30 August 1966 (30.08.1966), see figure 1.	6,7,15 & 16

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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"A"	document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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"P"	document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

18 September 2006 (18.09.2006)

Date of mailing of the international search report

18 OCT 2006

Name and mailing address of the ISA/US

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US05/29117

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 94/08483 A1 (Van OPDORP) 28 April 1994 (28.04.1994), see figures 1-4.	8,9,17 & 18
Y	US 1385743 A (ELLERT) 26 July 1921 (26.07.1921), see figures 4 and 5.	10-18