



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) **EP 1 132 017 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
07.04.2004 Bulletin 2004/15

(51) Int Cl.7: **A44C 9/00**

(43) Date of publication A2:
12.09.2001 Bulletin 2001/37

(21) Application number: **01302168.8**

(22) Date of filing: **09.03.2001**

(84) Designated Contracting States:
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE TR**
Designated Extension States:
AL LT LV MK RO SI

(72) Inventor: **Hirano, Matsuo**
Saitama 350-0443 (JP)

(74) Representative: **Billington, Lawrence Emlyn**
Haseltine Lake & Co.
Imperial House
15-19 Kingsway
London WC2B 6UD (GB)

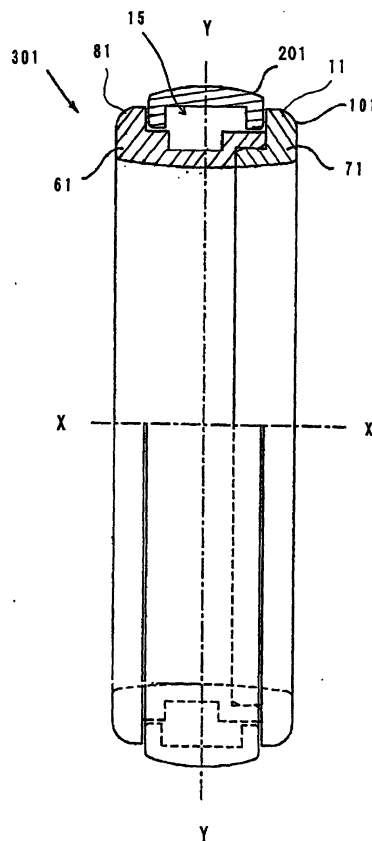
(30) Priority: **09.03.2000 JP 2000065264**

(71) Applicant: **Gunma Instrument Inc.**
Gunma 378-0401 (JP)

(54) **Ring jewelry**

(57) A ring jewelry item capable of undergoing change in appearance and being of robust structure, while having an attractive appearance and being easily assembled. The ring jewelry item comprises a first ring element (61) and a second ring element (71) rotatably connected with the first ring element. The first ring element (61) may comprise a base ring (101) and the second ring element may comprise a rotary ring (201) rotatably mounted on a cylindrical supporting wall of the base ring. The base ring (101) may be divided into a first ring (61) and a second ring (71) fitted to each other. The rotary ring (201) is rotatably held on the supporting wall in a groove (15) formed between annular ridges on peripheral edges of the first (61) and the second rings (71). A click stop mechanism for holding the rotary ring at a plurality of rotational positions relatively to the base ring may be provided.

FIG. 2



EP 1 132 017 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 01 30 2168

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 5 228 316 A (S. B. MEYROWITZ) 20 July 1993 (1993-07-20) * column 2, line 35 - column 4, line 40; claim 1; figures 1-5 *	1,2	A44C9/00
X	WO 96/08981 A (HERMANN A. TRAUTZ) 28 March 1996 (1996-03-28) * page 3, paragraph 4 - page 4, last paragraph; claims 1,4,5; figures 4,5 *	1,3	
A		10	
X	DE 90 16 842 U (FA. PETER HEIM) 16 April 1992 (1992-04-16) * page 2, line 16 - page 3, last paragraph; claims 1-3; figures 1,2 *	4,13,15, 16,18	
X	DE 18 04 121 A (F. JUCKER) 11 September 1969 (1969-09-11) * page 2, last paragraph - page 3, paragraph 1; claim 1; figures 1-3 *	4-6,9,10	
X	US 6 032 485 A (D. R. STEINBERG) 7 March 2000 (2000-03-07) * column 2, line 14 - column 3, line 26; claim 1; figures 1-7 *	4,9,11, 12	TECHNICAL FIELDS SEARCHED (Int.Cl.7) A44C
X	FR 2 713 056 A (P. VALENTIN) 9 June 1995 (1995-06-09) * page 2, paragraph 2 - page 3, paragraph 1 * * page 6, last paragraph - page 7, paragraph 3; figure 2 *	4-7	
X	US 1 712 417 A (G. BEAUJARD JR) 7 May 1929 (1929-05-07) * the whole document *	4,6,7	
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 29 January 2004	Examiner Garnier, F
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 01 30 2168

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
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

29-01-2004

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5228316	A	20-07-1993	NONE	
WO 9608981	A	28-03-1996	DE 9415365 U1 AT 174480 T WO 9608981 A1 DE 59504581 D1 EP 0782402 A1	17-11-1994 15-01-1999 28-03-1996 28-01-1999 09-07-1997
DE 9016842	U	16-04-1992	DE 9016842 U1	16-04-1992
DE 1804121	A	11-09-1969	CH 465296 A DE 1804121 A1	15-11-1968 11-09-1969
US 6032485	A	07-03-2000	NONE	
FR 2713056	A	09-06-1995	FR 2713056 A1	09-06-1995
US 1712417	A	07-05-1929	NONE	

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82