



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) **EP 0 874 350 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
16.08.2000 Bulletin 2000/33

(51) Int Cl.7: **G10D 9/00**

(43) Date of publication A2:
28.10.1998 Bulletin 1998/44

(21) Application number: **98400971.2**

(22) Date of filing: **21.04.1998**

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

(72) Inventors:
• **Valtchev, Konstantin L.**
Don Mills, Ontario M3B 3G1 (CA)
• **Gomez, Harold**
Toronto, Ontario M4E 1Y8 (CA)

(30) Priority: **22.04.1997 US 837757**
15.04.1998 US 60325

(74) Representative: **Bérogin, Francis**
Cabinet Plasseraud
84, rue d'Amsterdam
75440 Paris Cedex 09 (FR)

(54) **Acoustical ring and bell sound system**

(57) An acoustical ring and bell sound system **10** for use with a variety **101, 102, 103** of musical wind instruments **100**; wherein, the sound system comprises an acoustical ring element **21** and an acoustical bell element **31** dimensioned to releasably engage the proximal **104** and distal **105** ends of the musical instrument **100** for producing air turbulence control in the interior of the instrument **100**.

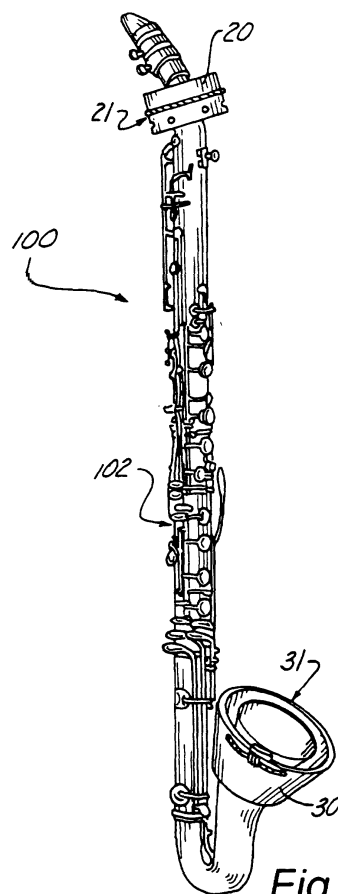


Fig. 1B

EP 0 874 350 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 98 40 0971

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.6)
X	GB 2 015 802 A (TOYAMA MUSICAL INSTRUMENT) 12 September 1979 (1979-09-12) * abstract; figures 2,4 * * page 1, line 119 - page 2, line 19 * * page 2, line 126 - page 3, line 7 * ---	1	G10D9/00
A	EP 0 055 519 A (WINSLOW THOMAS W ;WINSLOW JOHN G III (US)) 7 July 1982 (1982-07-07) * abstract; figures 1,2,6,7 * ---	1,2	
A	US 1 342 846 A (PASQUALE SANTA EMMA) 8 June 1920 (1920-06-08) * the whole document * ---	1	
P,A	US 5 644 095 A (DAVIDSON JOHN R) 1 July 1997 (1997-07-01) * abstract; claims 1,7 * * column 4, line 12 - line 40; figure 6 * ---	1	
A	US 2 530 155 A (A DE LUCA) 14 November 1950 (1950-11-14) * abstract; claim 1; figures 1-3 * ---	1	TECHNICAL FIELDS SEARCHED (Int.Cl.6)
A	US 3 643 538 A (TOYAMA NOBUO) 22 February 1972 (1972-02-22) * abstract; figures 2,4 * * column 2, line 36 - line 45 * -----	1	G10D
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 22 June 2000	Examiner Haasbroek, J
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 98 40 0971

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.

22-06-2000

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
GB 2015802 A	12-09-1979	JP 1292846 C	16-12-1985
		JP 54116214 A	10-09-1979
		JP 60013199 B	05-04-1985
		CA 1104850 A	14-07-1981
		DE 2836623 A	06-09-1979
		FR 2418957 A	28-09-1979
		US 4306484 A	22-12-1981
EP 0055519 A	07-07-1982	CA 1179489 A	18-12-1984
		DE 3175428 D	06-11-1986
		JP 1023795 B	08-05-1989
		JP 1539321 C	16-01-1990
		JP 57185087 A	15-11-1982
		US 4428271 A	31-01-1984
US 1342846 A	08-06-1920	NONE	
US 5644095 A	01-07-1997	US 5965832 A	12-10-1999
US 2530155 A	14-11-1950	NONE	
US 3643538 A	22-02-1972	NONE	