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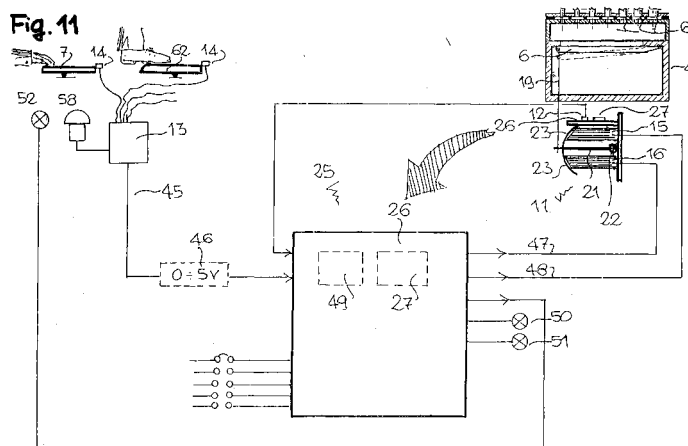
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(54) A system for controlling the movement of sliders in musical instruments with pipes and the like

(57) The system comprises:

- an air-fed organ case (4) and comprising orifices (5) which communicate with a chamber underlying the musical pipes (3), whose foot is engaged in a hole provided in said chamber,
- sliders (6) that control the flow of air through each orifice (5), while at least one slider (6) is actuated with the aid of a respective key (7),
- first position sensor means (14), arranged to sense the travel of each key (7),
- second position sensor means (12), arranged to sense the travel of each slider (6),
- and electrical / electronic circuit means (25, 26, 27,

49), which establish a correspondence between the displacements of the first position sensor means (14) and those of the second position sensor means (12) and, with the intermediary operation of respective actuator means (11) move at least a corresponding slider (6). According to the invention, said actuator means (11; 68) comprise a movable member (21, 23) which is driven to perform reciprocating movements proportionately to the movements of the respective key (7) and controls, directly and in correspondingly proportional fashion, the movement of at least a respective slider (6) both in its opening travel and in the closing travel with respect to the corresponding orifice (5).





European Patent  
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# EUROPEAN SEARCH REPORT

Application Number  
EP 04 01 1017

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	WO 94/11856 A (SYNCORDIA INTERNATIONAL INC; ASSELIN, PIERRE-YVES;) 26 May 1994 (1994-05-26) * page 9, line 1 - line 3 * * abstract; figure 3 * * page 9, line 11 - line 17 * * page 7, line 27 - line 30 * * page 5, line 20 - line 29 * -----	1,8,10, 14,15	G10B3/06
X	DE 43 19 633 C1 (BIEDER, KLAUS, PROF. DIPL.-ING., 4270 DORSTEN) 21 July 1994 (1994-07-21) * abstract; figure 1 * * column 2, line 4 - line 44 * -----	1	
Y	DE 93 19 653 U1 (AUG. LAUKHUFF GMBH & CO, 97990 WEIKERSHEIM, DE) 21 April 1994 (1994-04-21) * the whole document *	1,8,9, 15,17	
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Y	DE 24 01 838 A1 (THIELMANN, WERNER, 7012 FELLBACH) 24 July 1975 (1975-07-24) * page 1, line 21 - line 27 * * page 2, line 9 - line 18; figures 1,2,4 * * * page 5, line 16 - line 29 * * page 4, line 18 - line 35 * -----	1,8,9, 15,17	TECHNICAL FIELDS SEARCHED (Int.Cl.7)  G10B G10C
The present search report has been drawn up for all claims			
Place of search <b>The Hague</b>		Date of completion of the search <b>30 September 2005</b>	Examiner <b>De Bekker, R</b>
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  
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EP 04 01 1017

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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30-09-2005

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