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(71) Applicant: **AB Hags Mekaniska
578 23 Aneby (SE)**

(72) Inventor: **Granström, John
578 33 Aneby (SE)**

(74) Representative: **Arwidi, Bengt Dr.
AHLPATENT AB
Gjuterigatan 9
553 18 Jönköping (SE)**

(54) Device for swinging and rotating playing equipment

(57) The present invention is for a device by swinging and rotating playing equipment. Playing equipment of this kind usually have a pole where a swinging member is mounted at the top of the pole. By mounting with a combination of rotating shaft and universal joint a simultaneous swinging, swaying and rotating movement with great possibilities of variations is made possible. The object of the present invention is to provide means to limit the movements of the movable member. This is achieved by a movement limiting means (17, 18) positioned adjacent to the mounting means, preferably the movement limiting means (17, 18) follows along with the rotating movements of the equipment. The means comprise dampening element (17) made from rubber or rubber-like material and a contacting element (18) which is a rigid plate.

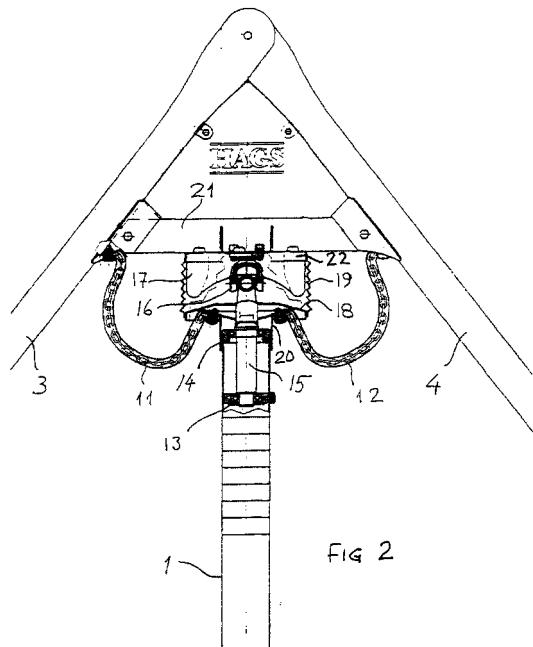


FIG 2



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	GB 661 767 A (CLEMENT HIRST;HIRST & SONS LTD B) 28 November 1951 (1951-11-28) * page 1, line 12 - line 20 * * page 2, line 27 - line 58; figure 1 * ---	1, 3, 4	A63G1/32 A63G1/28
X	DE 39 15 786 A (HEINEMANN PETER) 15 November 1990 (1990-11-15) * column 2, line 47 - column 3, line 39; figure 2 * ---	1, 3, 4	
X	DE 88 08 682 U (NEOSPIEL GESELLSCHAFT FÜR FREIZEITGERÄTE) 17 November 1988 (1988-11-17) * claims 1,3,12-14; figures * -----	1	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			A63G
<p>The present search report has been drawn up for all claims</p>			
Place of search	Date of completion of the search		Examiner
THE HAGUE	16 April 2002		Baert, 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			

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

EP 00 85 0143

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.

16-04-2002

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
GB 661767	A	28-11-1951	NONE			
DE 3915786	A	15-11-1990	DE	3915786 A1		15-11-1990
DE 8808682	U	17-11-1988	DE	8808682 U1		17-11-1988