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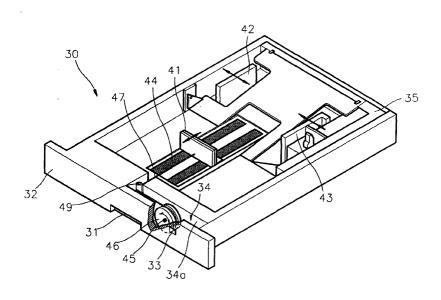
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(54) Display of size of paper stored in printer paper tray

(57) A display of the size of paper stored in a paper tray (30) of a printer is provided. The display includes at least one control plate (41) capable of sliding linearly in a predetermined direction, installed in the paper tray (30) to define the edges of the stored paper, a pulley wheel (46) capable of rotating around one point (45), in one side of the paper tray (30), and linear/rotary movement converting means for converting linear movement of the control plate (41) into corresponding rotary move-

ment of the pulley wheel (46), in which a window (33) is provided in the paper tray (30) to show a portion of the pulley wheel (46), and paper size indicators are displayed in radially-divided regions of the pulley wheel (46) to show the paper size according to the position of the control plate (41). Thus, the size of the paper stored in the paper tray (30) can be seen from the outside, so that the paper tray (30) need not be opened to check the size of the stored paper.

FIG. 2





EUROPEAN SEARCH REPORT

Application Number EP 98 30 4627

Category	Citation of document with ind of relevant passag		Relevant to claim	CLASSIFICATION OF THE APPLICATION (int.Cl.6)	
X	PATENT ABSTRACTS OF vol. 1996, no. 10, 31 October 1996 (199 & JP 08 157077 A (CA 18 June 1996 (1996-0	1,9,10	G03G15/00 B65H1/04		
Υ	* abstract *	0-16)	2-8		
Υ	US 4 697 803 A (KAN 6 October 1987 (1987 * column 3, line 34 figures 1,4 *	-10-06)	2-8		
X	PATENT ABSTRACTS OF vol. 1995, no. 09, 31 October 1995 (199 -& JP 07 144759 A (R 6 June 1995 (1995-06 * abstract *	5-10-31) ICOH CO LTD),	1,9,10		
X	vol. 009, no. 198 (M 15 August 1985 (1985 & JP 60 061426 A (RI	ATENT ABSTRACTS OF JAPAN bl. 009, no. 198 (M-404), bl. August 1985 (1985-08-15) JP 60 061426 A (RICOH KK), April 1985 (1985-04-09) abstract *		TECHNICAL FIELDS SEARCHED (Int.Cl.6) G03G B65H	
	The present search report has be				
	Place of search TUE HACHE	Date of completion of the search 24 May 2000	do	Examiner Vries A	
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		T: theory or prin E: earlier patent after the filing P: document cit L: document cit A: member of the	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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EP 98 30 4627

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.

24-05-2000

Patent document cited in search repo		Publication date	Patent family member(s)	Publication date
JP 08157077	Α	18-06-1996	NONE	
US 4697803	Α	06-10-1987	JP 1709141 C JP 3064411 B JP 60242139 A	11-11-199 07-10-199 02-12-198
JP 07144759	А	06-06-1995	JP 2896299 B	31-05-199
JP 60061426	Α	09-04-1985	NONE	

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