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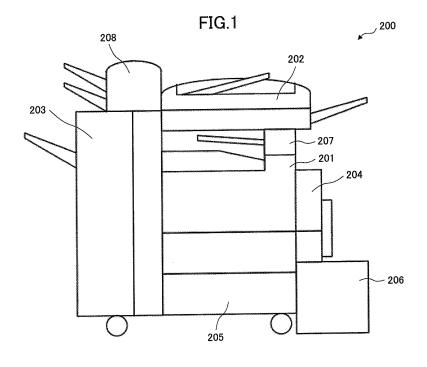
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(54) Print medium feeding apparatus with electrode in endless belt

(57) A print medium feeding apparatus includes an endless belt disposed to face stacked media and configured to rotate, the endless belt divided into sections having electrodes, respectively, fixed terminals configured to be in contact with two or more of the electrodes while the two or more of the electrodes are passing through a position facing the media as the electrodes are moved by rotation of the endless belt, a voltage applying unit

connected to the fixed terminals and configured to apply voltage to the two or more of the electrodes that are in contact with the fixed terminals, a connection unit configured to make and break a connection between the voltage applying unit and at least one of the fixed terminals, and a switching unit configured to change a state of the connection of the connection unit in response to size of the media.





EUROPEAN SEARCH REPORT

DOCUMENTS CONSIDERED TO BE RELEVANT

Application Number

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Category	Citation of document with inc	dication, where appropri		Relevant	CLASSIFICATION OF THE
Υ	JP S60 137733 A (FU 22 July 1985 (1985-0 * abstract; figures * page 239 *	JI XEROX CO LT 97-22)	D)	to claim	INV. G03G15/00
Υ	EP 0 636 486 A2 (CAI 1 February 1995 (199 * page 7, line 1 -	95-02-01)	e 5 *	1-10	
Υ	US 5 219 154 A (FUKI 15 June 1993 (1993-0 * column 4, line 45 figure 4 *	96-15)	·	5	
Υ	US 2003/063174 A1 (13 April 2003 (2003-04 paragraph [0056];	94-03)	JP])	6	
A	US 2011/052227 A1 (ET AL) 3 March 2011 * the whole documen	(2011-03-03)	AO [JP]	1-10	TECHNICAL FIELDS SEARCHED (IPC) G03G B65H B41J
	The present search report has b	•			
Place of search Munich		Date of completion 26 Sept.	on of the search ember 2017	Examiner Billmann, Frank	
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: E: O: L:	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 8: member of the same patent family, corresponding document		

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26-09-2017

0	Patent document cited in search report	Publication date	Patent family member(s)	Publication date
	JP S60137733 A	22-07-1985	JP S6256058 B2 JP S60137733 A	24-11-1987 22-07-1985
5	EP 0636486 AZ	01-02-1995	AT 209573 T DE 69429221 D1 DE 69429221 T2 EP 0636486 A2 US 5821968 A	15-12-2001 10-01-2002 27-06-2002 01-02-1995 13-10-1998
0	US 5219154 A	15-06-1993	JP 3159727 B2 JP H04251041 A US 5219154 A US 5316282 A	23-04-2001 07-09-1992 15-06-1993 31-05-1994
5	US 2003063174 A	03-04-2003	JP 3937786 B2 JP 2003104580 A US 2003063174 A1	27-06-2007 09-04-2003 03-04-2003
)	US 2011052227 A	03-03-2011	JP 5429621 B2 JP 2011051760 A US 2011052227 A1	26-02-2014 17-03-2011 03-03-2011
5				
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5				
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5	FORM P0459			

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