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(54) **Process for statically and dynamically controlling tilting paper supply for high capacity feeder**

(57) A method of statically and dynamically controlling the height and angle of a feed tray (210) in an electrophotographic printing machine. The paper supply starts with the tray (210) lead edge ramped up 1.4 degrees and paper is loaded. Required paper properties are inputted or sensed automatically (e.g., gsm, size, etc.). The elevator raises to lowest possible stack height (to maintain stack control using tray guides in preparation for air system turning on). The initial tray angle is removed based on paper gsm and the air system activates fluffer and air knife jets (360), but vacuum is valved to off position. The stack height arm (352) is raised & lead edge attitude sensor (340) is interrogated for top sheet position relative to feed head acquisition surface (sensor may be position sensitive device type or multiple sensors with different focal lengths, etc.). Based on positions sensed by stack height and lead edge attitude sensors, the tray angle and/or stack height is adjusted until the desired sensor states are achieved. Upon completion of adjustments to the tray angle, stack height is verified. Feeding commences and stack height and lead edge attitude positions are checked each feed with corrections made accordingly.

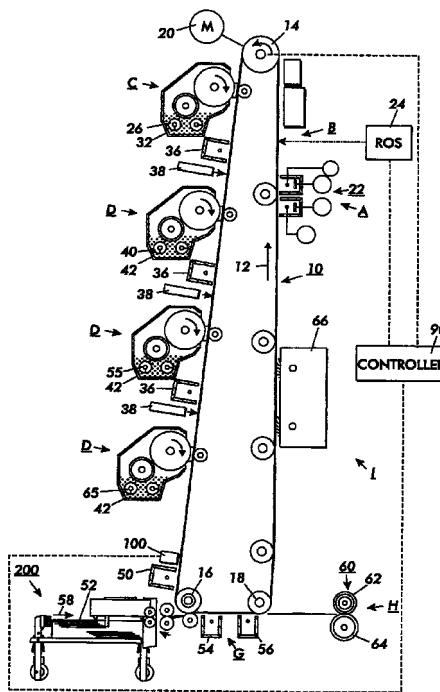


FIG. 1



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EUROPEAN SEARCH REPORT

Application Number

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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)
A	DE 11 46 507 B (MABEG MASCHINENBAU GMBH) 4 April 1963 (1963-04-04) * column 1, line 36 – column 2, line 41; figures *	1	B65H7/00 B65H1/18
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			B65H
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
BERLIN	2 May 2000	David, P	
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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			

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ON EUROPEAN PATENT APPLICATION NO.**

EP 99 12 5214

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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