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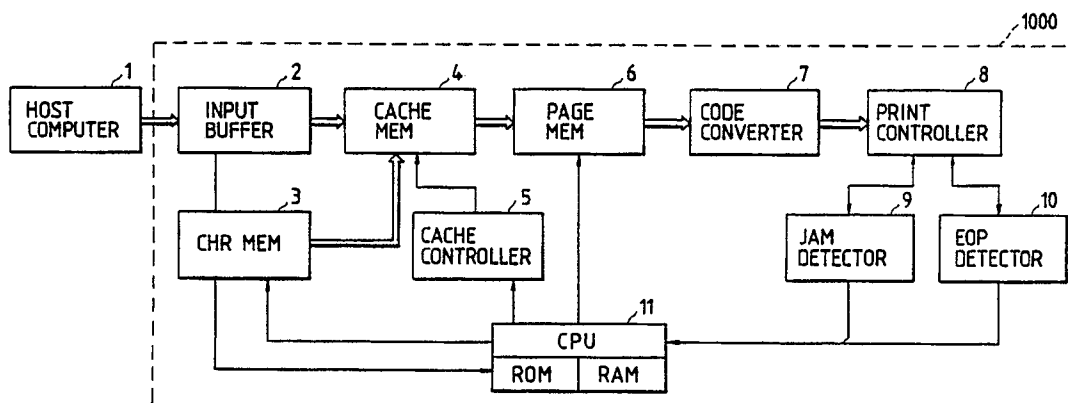
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54 **Output apparatus.**

57 An output apparatus comprises: a cache memory (4) to temporarily store the bit map pattern data which was developed to the bit map pattern on the basis of character information; an accumulating device to accumulate a plurality of bit map pattern data extracted from the cache memory (4); a rewriting unit to rewrite the bit map pattern data stored in the cache memory (4); a print controller (8) to print on the basis of the data accumulated in the accumulating device; a detector to detect an operating state in

the print controller (8); and a control unit (5) to control the data rewriting process in the cache memory (4) and the data clearing process in the accumulating device in accordance with the operating state detected by the detector. Since the rewriting and clearing processes to the cache memory (4) are executed synchronously with the printing operation, even if a paper jam occurred, there is no need to develop to the cache memory (4).

FIG. 1





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EUROPEAN SEARCH REPORT

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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.5)
A	PATENT ABSTRACTS OF JAPAN vol. 11, no. 341 (E-554)(2788), 7 November 1987; & JP-A-62120775 (RICOH) 02.06.1987 ---	1-4	H 04 N 1/21 B 41 J 2/435
A	PATENT ABSTRACTS OF JAPAN vol. 12, no. 150 (E-606)(2997), 10 Mai 1988; & JP-A-6226757 (RICOH) 17.11.1987 ---	1-4	
A	EP-A-0 042 071 (SIEMENS) * abstract; claim 15 * -----	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			B 41 J H 04 N
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
BERLIN	14-08-1990	ZOPF K	
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	