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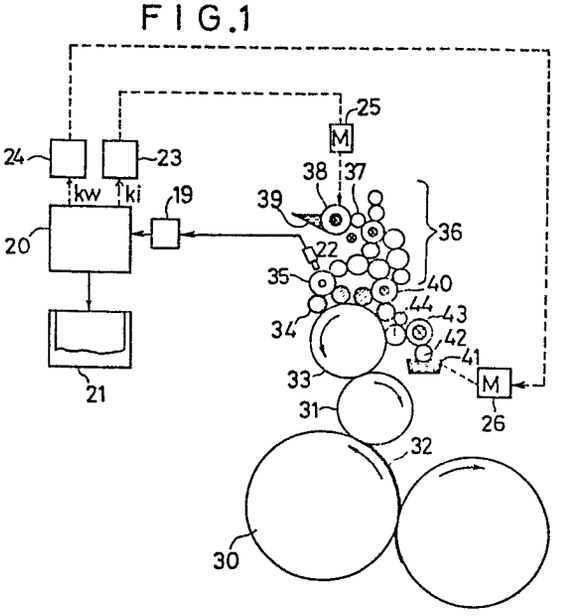
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(54) Method of controlling film thickness of mixture liquid layer of oil material and water in printer.

(57) A method of controlling film thickness of a mixture liquid layer of oil material and water in a printer such as, for example, an offset printer is disclosed wherein the mixture liquid layer of the oil material containing printing ink, printer's varnish and the like and water such as, for example, dampening water attached to one roller of a roller group carrying the mixture liquid layer is alternately irradiated by infrared rays which are most strongly absorbed into the oil material and the water and by infrared rays which are hardly absorbed into the oil material and the water. Film thicknesses of the oil material and the water are detected on the basis of infrared absorption characteristics of the oil material and the water. The detected film thicknesses of the oil material and the water are compared with the respective predetermined target values and supply of the oil material and the water is controlled so that differences between the detected film thicknesses and the respective target values are minimized. Thus, printing failure such as so-called greasing and water stain occurring in a prior art printing is prevented and printing quality is improved, so that spoilages can be reduced.

FIG.1



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EUROPEAN SEARCH REPORT

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Application Number

EP 85 73 0173

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.4)
Y	DE-B-2 214 721 (HEIDELBERGER DRUCKMASCHINEN AG) * Claim 1; column 2, lines 40-59; column 3, lines 45-56; column 6, lines 5-25 *	1-3	B 41 F 33/00 B 41 F 31/02
Y	EP-A-0 000 689 (HEIDELBERGER DRUCKMASCHINEN AG) * Page 5, lines 1-14; page 7, lines 10-21; page 9, lines 15-24 *	1-3	
A	INSTRUMENT PRACTICE, vol. 25, no. 9, September 1971, page 539; "Two colour infra-red thickness gauge"	1	
A	US-A-4 306 152 (ROSS et al.) * Column 2, lines 40-55 *	1	
A	GB-A-2 127 541 (IMPERIAL GROUP PUBLIC LTD CO.) * Page 1, lines 20-28 *	1	TECHNICAL FIELDS SEARCHED (Int. Cl.4)
A	GB-A-2 016 678 (ASAHI-DOW LTD) * Abstract *	1	B 41 F G 01 B G 01 N
A	US-A-4 149 802 (DORN et al.) * Column 1, lines 47-62 *	1	

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
THE HAGUE	18-02-1988	WEBER P.L.P.

CATEGORY OF CITED DOCUMENTS

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