11 Publication number:

0 383 590

(12)

EUROPEAN PATENT APPLICATION

(21) Application number: 90301605.3

(51) Int. Cl.5: **B41F** 31/00

22 Date of filing: 15.02.90

Priority: 15.02.89 GB 8903417 06.07.89 GB 8915520

- (3) Date of publication of application: 22.08.90 Bulletin 90/34
- Designated Contracting States:
 DE ES FR GB GR IT
- Date of deferred publication of the search report: 14.11.90 Bulletin 90/46

(57) In a system for supplying fluid to a printing roller for lithographic printing, an infra-red thermometer is

- 71) Applicant: Grantham, Geoffrey Roger Peter 7 Buckbeck Way Cleethorpes, South Humberside DN35 0RJ(GB)
- Inventor: Grantham, Geoffrey Roger Peter 7 Buckbeck Way Cleethorpes, South Humberside DN35 0RJ(GB)
- Representative: Adkins, Michael et al Withers & Rogers 4 Dyer's Buildings Holborn London, EC1N 2JT(GB)
- (4) A fluid supply device, a fluid supply system and a method of supplying fluid to a printing roller.
- provided for sensing the temperature of the printing roller (38) surface. A control device is provided and controls a cooling unit for air pumped from a pump (30) dependent upon the temperature sensed by the thermometer. The cooled air is directed onto the printing cylinder (38) by a fluid supply device (10) which comprises a cylindrical tube (11) having aligned outlet openings (12) along its length. Each outlet opening (12) is elongate in the axial direction and has rounded corners. The tube (11) includes a filter unit (29) and a needle valve (28) at the end opposite the inlet and has a baffle plate (26) running maxially therethrough. These features inhibit turbu-◀lence in the tube (11). There is a compensation opening (18) on the other side of the tube to each outlet opening (12) and each compensation opening (18) is the same size as its opposite outlet opening (12). Throttle clips (14) are provided on the tube (11) and allow the outlet openings (12) to be open when the compensation openings (18) are closed and the compensation openings (18) to be open when the outlet openings (12) are closed. 面

Xerox Copy Centre



EUROPEAN SEARCH REPORT

ΕP 90 30 1605

Category	Citation of document with ind of relevant pass		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
Y	AU-B-21515/83 (MILTON RA' * page 4, line 11 - page *	•	1, 3, 8, 13	B41F31/00
4			9	
, (-	10-12	
(CH-A-402302 (SIEMENS) * the whole document *		1, 3, 8, 13	
(US-A-3686771 (VEB POLYGR * column 2, line 32 - co 1, 6 *	•	14-17, 22	
4	GB-A-726158 (STE-MARIE)	_		
A	GB-A-1118212 (BRISTOL FA	N COMPANY) 		
				TECHNICAL FIELDS SEARCHED (Int. Cl.5)
				B41F F26B G10K F16L G05D
			_	
	The present search report has been			
Place of search THE HAGUE		Date of completion of the search 11 SEPTEMBER 1990	LON	Examiner CKE J.W.

- 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

- D: document cited in the application

 L: document cited for other reasons

- & : member of the same patent family, corresponding document

1