

(19)



Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) Publication number:

0 236 105
A3

(12)

EUROPEAN PATENT APPLICATION

(21) Application number: **87301789.1**(51) Int. Cl.⁴: **B41F 31/10 , B41F 31/18**(22) Date of filing: **02.03.87**(30) Priority: **04.03.86 GB 8605338**(43) Date of publication of application:
09.09.87 Bulletin 87/37(84) Designated Contracting States:
AT BE CH DE ES FR GB GR IT LI LU NL SE(88) Date of deferred publication of the search report:
25.10.89 Bulletin 89/43(71) Applicant: **JOHN HORN LIMITED**
Riverbank Works Riverford Road
Glasgow G43 1PS Scotland(GB)(72) Inventor: **Stirling, Stanley John James**
33 Gleniffer Drive Barrhead
Glasgow Scotland(GB)(74) Representative: **McCallum, William Potter et al**
Cruikshank & Fairweather 19 Royal
Exchange Square
Glasgow G1 3AE Scotland(GB)(54) **Inking rollers for multicolour printing.**

(57) The invention relates to colour printing apparatus in which printing ink is transferred from a reservoir (15) by means of at least one ink transfer roller (16), the ink transfer roller (16) incorporating two or more roller segments (45) which can be positioned axially on a mandrel (38) so that laterally spaced in flow paths can be provided between the reservoir (15) and a printing station.

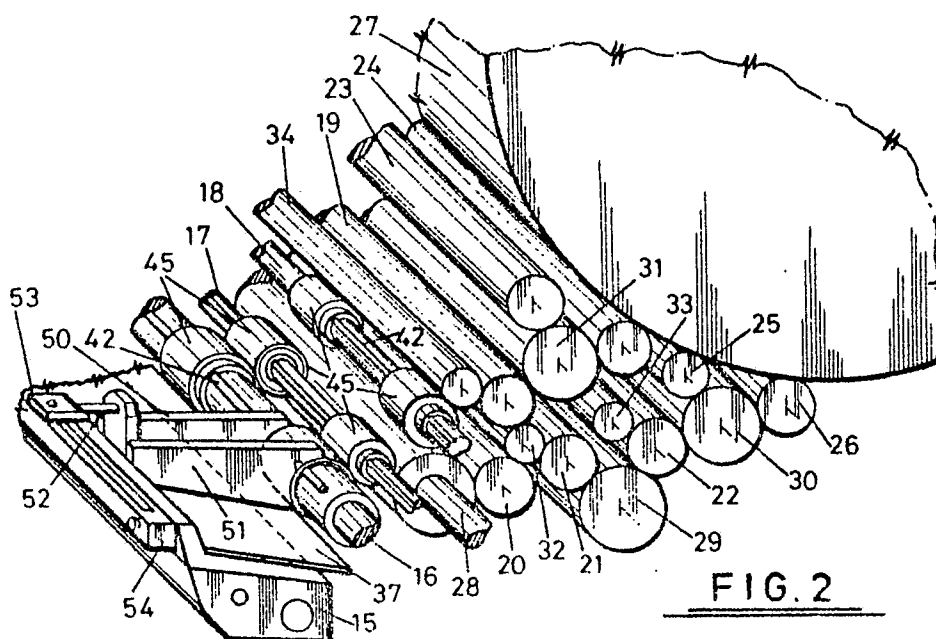


FIG. 2

EP 0 236 105 A3



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)
X	GB-A- 101 718 (W.R. CRANDALL) * Page 1, lines 6-29; claims 1-4; figures 1-10 *	1-4, 8- 10, 12- 15, 19- 23	B 41 F 31/10 B 41 F 31/18
Y	* Page 2, line 19 - page 3, line 17; page 3, lines 4-32 *	5-7, 11, 16-18, 24	
Y	--- US-A-1 568 161 (F.W. HUEMPFNER) * Page 1, lines 12-33; claims 1-5; figures 1-7; page 2, lines 27-92 *	5, 16	
Y	--- DE-C- 67 850 (FIRMA MASCHINENFABRIK HEIDELBERG, MOLITOR & CIE) * Page 1, lines 14-39; claim 1; figures 1, 6 *	6, 7, 11, 17, 18	
Y	--- GB-A-1 230 020 (W.H. GRANGER) * Page 2, lines 12-61; claim 1; figures 1, 2, 5, 9 *	7, 18	
Y	--- DE-C- 145 993 (E. WESSER) * Claim 1; figures 1-5 *	24	TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
Y	--- FR-A-1 258 917 (R. RISLER) * Page 2, left-hand column, line 25 - right-hand column, line 18; claim 1; figures 1, 3 *	1-4, 6, 8 -10, 12- 15, 17	B 41 F B 41 L
Y	--- CH-A- 321 898 (MASCHINENFABRIK AUGSBURG-NURNBERG AG) * Page 2, lines 38-81; claim 1; figures 1-3 *	19-24 1-3, 12- 14, 19- 21, 24	
	--- -/-		
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 31-07-1989	Examiner GREINER E. F.
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			



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	CH-A- 407 175 (E. GERICKE) * Page 1, line 39 - page 2, line 18; claim 1; figures 1-4 * ---	4,6,15, 17	
Y	DE-C- 163 297 (J.G. SCHELTER & GIESECKE) * Claim 1; figures 1-6 * -----	8-10,22 ,23	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 31-07-1989	Examiner GREINER E.F.
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			