

12 EUROPEAN PATENT APPLICATION

21 Application number: 84308036.7

51 Int. Cl.⁴: B 41 F 13/12

22 Date of filing: 20.11.84

30 Priority: 22.11.83 JP 220148/83

43 Date of publication of application:
29.05.85 Bulletin 85/22

88 Date of deferred publication of search report: 03.06.87

84 Designated Contracting States:
CH DE GB IT LI

71 Applicant: DAI NIPPON INSATSU KABUSHIKI KAISHA
1-1, Kaga-Cho 1-Chome Ichigaya Shinjuku-Ku
Tokyo 162(JP)

72 Inventor: Imamoto, Tsunehiko
4-5-6-404, Konandai Konan-Ku
Yokohama-Shi Kanagawa-Ken(JP)

72 Inventor: Sugimoto, Toshiki
c/o Dai Nippon Insatsu Shoshi Ryo 47, Nando-Cho
Shinjuku-Ku Tokyo-To(JP)

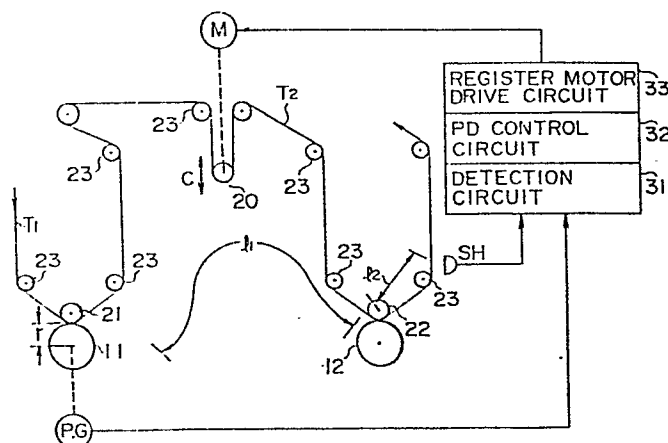
74 Representative: Barnard, Eric Edward
BROOKES & MARTIN High Holborn House 52/54 High
Holborn
London WC1V 6SE(GB)

54 Registration control method and device for rotary press.

57 A registration error is detected by reading register marks printed on a printing medium in the preceding unit and the succeeding unit of a multi-color rotary press and in response to a detected registration error, gains K_P and K_D in PD control are optimized based on 1) a pass length between the plate cylinders (11,12), 2) pass length between a plate cylinder and

a position at which a register mark is detected, 3) the radius of a plate cylinder and 4) either of the displacement velocity of a compensator roller (20) or the printing speed so that the position of the shaft of the compensator roller (20) which is interposed between the adjacent units is displaced, whereby register marks are registered with respect to each other.

FIG. 1





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)
A	DE-B-2 615 371 (SIEMENS) * Whole document *	1-4	B 41 F 13/02

A	US-A-4 264 957 (PAUTZKE) * Figure 3; claim 1 *	1-4	

			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			B 41 F
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 02-03-1987	Examiner EVANS A. J.
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	