(1) Publication number:

0 311 020 A3

(12)

EUROPEAN PATENT APPLICATION

(21) Application number: 88116411.5

(51) Int. Cl.5: G03G 15/09

22 Date of filing: 04.10.88

30 Priority: 05.10.87 JP 249759/87

Date of publication of application: 12.04.89 Bulletin 89/15

Designated Contracting States:
DE ES FR GB IT

Date of deferred publication of the search report:28.11.90 Bulletin 90/48

71 Applicant: FUJITSU LIMITED

1015, Kamikodanaka Nakahara-ku Kawasaki-shi Kanagawa 211(JP)

- Inventor: Nishio, Yukio c/o FUJITSU LIMITED Patent Department 1015 Kamikodanaka Nakahara-ku Kawasaki-shi Kanagawa 211(JP)
- Representative: Sunderland, James Harry et al HASELTINE LAKE & CO Hazlitt House 28 Southampton Buildings Chancery Lane London WC2A 1AT(GB)
- Angular positioning of magnets in a developer roller used in electrophotographic apparatus or the
- An extended portion of an axie (9) supporting magnets (10a) in a developer roller (4) is provided with a gear (27) and a lever plate (28). A magnetic sensor (91), such as a Hall element, is arranged in place of a photosensitive drum (1) where there is the narrowest gap between the developer roller (4) and the photosensitive drum (1). The sensor (91) detects the magnetic field of the magnets (10a) while the magnets are rotated by an external drive (93, 94) via the gear (27). At an angular position of the magnets

(10a) where a peak of magnetic field of a particular magnet pole (N_1) facing the drum (1) is detected, the lever plate (28) is fixed to a frame (25), which rotatably supports the axle (9), of a developer unit including the developer roller (4) by, for example, fastening a screw (30) on the frame. Accordingly, the angular position of the magnets (10a) can be adjusted easily and accurately enough to achieve quality printing.

EP 0 311 020 A3

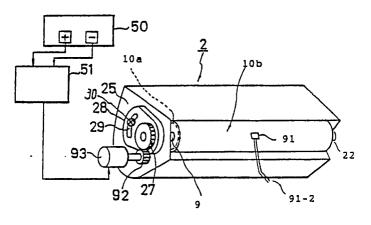


FIG.8

EUROPEAN SEARCH REPORT

EP 88 11 6411

Category	Citation of document with in of relevant pas		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
	JP-A-62 196 688 (SH/ * Figures 1-4 * & P/ JAPAN, vol. 12, no.	ATENT ABSTRACTS OF	1-4	G 03 G 15/09
A	13th February 1988		7-10	
Y	JP-A-62 196 687 (SHA * Figures 1-10 * & JAPAN, vol. 12, no. 13th February 1988	PATENT ABSTRACTS OF	1,2,5,7	
Y	PATENT ABSTRACTS OF 98, 31st August 197 JP-A-52 32 337 (K.I	JAPAN, vol. 1, no. 7, page 2949 E 77; & .P. K.K.) 11-03-1977	1,2,5,7	
A	US-A-4 279 942 (SW. * Column 3, lines 4	APCEINSKI) 5-59; figure 2 *	1-3,7,8	
A	EP-A-0 182 930 (MAX BAERMANN GmbH) * Abstract; figures 1,2 *		1,2,7	
	ADSCIACE, Tigales	1,2		TECHNICAL FIELDS SEARCHED (Int. Cl.4)
				G 03 G 15/09
	The present search report has b	een drawn up for all claims		
Place of search THE HAGUE		Date of completion of the search	l l	Examiner J P.M.
X: par Y: par	CATEGORY OF CITED DOCUME rticularly relevant if taken alone rticularly relevant if combined with an cument of the same category chnological background	NTS T: theory or pi E: earlier pate after the fil other D: document of L: document of	rinciple underlying the nt document, but publ ing date cited in the application ited for other reasons	invention ished on, or

EPO FORM 1503 03.82 (P0401)