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54 **Image forming apparatus having cleaning means.**

57 The present invention relates to an image forming apparatus having cleaning means (2) which frictionally contacts magnetic particles on a magnet roller (4) with an image bearing member in order to remove foreign matters adhered to the image bearing member, thereby preventing the deterioration of the image quality. According to the present invention, by slowly rotating the magnet roller (4) so that a portion thereof opposed to the image bearing member is moved in the same direction as a moving direction of the image bearing member, thus preventing the toner from overflowing and scattering out of the cleaning means (2). Further, when the non-magnetic toner is used, by providing a toner cavity on the magnet roller (4), the scattering of the non-magnetic toner can be prevented, whereby the parts in the apparatus is prevented from being contaminated by the toner.

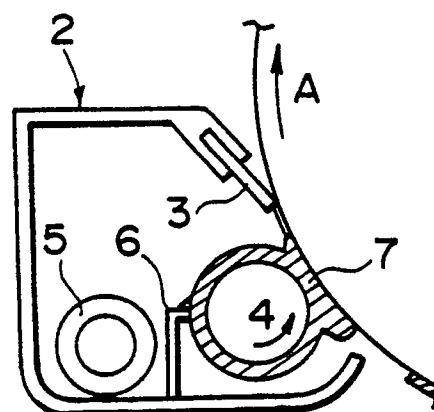


FIG. 3



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.5)
Y	DE-A-3151219 (CANON K.K.) * page 9, line 22 - page 10, line 14 * * page 11, line 13 - page 12, line 22; figures 1, 2B *	22-23, 25-30 32-36	G03G21/00
A	---	1-8, 14, 19, 21	
Y	PATENT ABSTRACTS OF JAPAN vol. 7, no. 245 (P-233)(1390) 29 October 1983, & JP-A-58 130373 (FUJI XEROX K.K.) 03 August 1983, * the whole document *	22-23, 25-30, 32-36	
A	---	1-4, 6, 8, 10-12, 17-19	
A	US-A-3918808 (TERUO NARITA) * column 5, line 49 - column 6, line 8 * * column 7, lines 16 - 65; figure 4 *	1-6, 8, 22-23 25, 27, 30, 32-33	TECHNICAL FIELDS SEARCHED (Int. Cl.5)
A	US-A-4739370 (NOBUTOSHI YOSHIDA ET AL.) * column 5, line 66 - column 7, line 31 * * column 8, line 66 - column 9, line 3; figures 6-7 *	1-9, 14, 22-25 27-28, 30-32, 36	G03G
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 11 OCTOBER 1990	Examiner TREPP E.A.
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			