



(11) Publication number : **0 485 271 A3**

(12)

EUROPEAN PATENT APPLICATION

(21) Application number : **91402953.3**

(51) Int. Cl.⁵ : **G03G 15/00**

(22) Date of filing : **05.11.91**

(30) Priority : **06.11.90 JP 301779/90**
19.03.91 JP 54446/91

(43) Date of publication of application :
13.05.92 Bulletin 92/20

(84) Designated Contracting States :
DE FR GB IT

(88) Date of deferred publication of search report :
09.09.92 Bulletin 92/37

(71) Applicant : **CANON KABUSHIKI KAISHA**
30-2, 3-chome, Shimomaruko, Ohta-ku
Tokyo (JP)

(72) Inventor : **Nomura, Yoshiya**
CANON KABUSHIKI KAISHA, 30-2, 3-chome,
Shimomaruko
Ohta-ku, Tokyo (JP)
 Inventor : **Tsuda, Tadayuki**
CANON KABUSHIKI KAISHA, 30-2, 3-chome,
Shimomaruko
Ohta-ku, Tokyo (JP)

Inventor : **Sasaki, Shinichi**
CANON KABUSHIKI KAISHA, 30-2, 3-chome,
Shimomaruko
Ohta-ku, Tokyo (JP)
 Inventor : **Ikemoto, Isao**
CANON KABUSHIKI KAISHA, 30-2, 3-chome,
Shimomaruko
Ohta-ku, Tokyo (JP)
 Inventor : **Watanabe, Kazushi**
CANON KABUSHIKI KAISHA, 30-2, 3-chome,
Shimomaruko
Ohta-ku, Tokyo (JP)
 Inventor : **Shirai, Hiroyuki**
CANON KABUSHIKI KAISHA, 30-2, 3-chome,
Shimomaruko
Ohta-ku, Tokyo (JP)
 Inventor : **Karakama, Toshiyuki**
CANON KABUSHIKI KAISHA, 30-2, 3-chome,
Shimomaruko
Ohta-ku, Tokyo (JP)

(74) Representative : **Santarelli, Marc**
Cabinet Rinuy et Santarelli 14, avenue de la
Grande Armée
F-75017 Paris (FR)

(54) **Process cartridge and image forming apparatus usable therewith.**

(57) A process cartridge (14) detachably mountable to an image forming apparatus includes an image bearing member (10a); process device (11,12) actable on the image bearing member (10); a first frame (14b) containing the image bearing member (10) and the process device (11,12); and a second frame (14a) engageable with and disengageable from the first frame (14b) and containing a developer container (110).

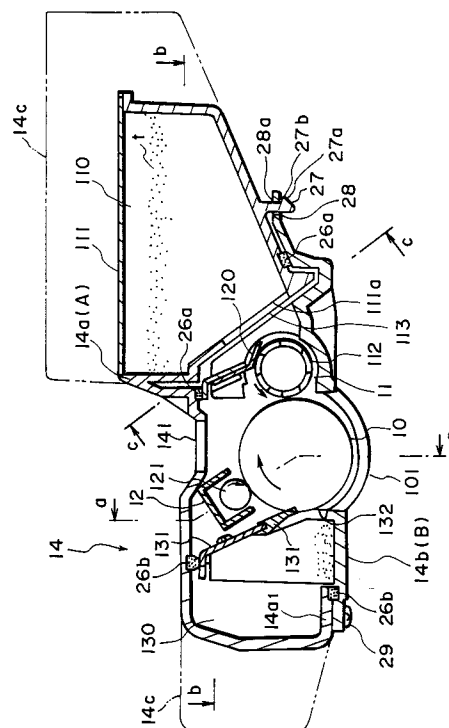


FIG. 1



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number

EP 91 40 2953
Page 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.5)
X Y A	GB-A-2 074 095 (KONISHIROKU PHOTO) * claims; figures 3-5 * ---	1-9 12 10, 11	G03G15/00
X A	PATENT ABSTRACTS OF JAPAN vol. 14, no. 430 (P-1106)14 September 1990 & JP-A-2 168 277 (SHINDENGEN ELECTRIC) 28 June 1990 * abstract * ---	1-9, 12 10, 11	
X A	DE-A-4 003 695 (MINOLTA CAMERA K.K.) * the whole document * ---	1-9 10-12	
X A	PATENT ABSTRACTS OF JAPAN vol. 14, no. 345 (P-1083)26 July 1990 & JP-A-2 123 376 (KONIKA) 10 May 1990 * abstract * ---	1-9, 11 10, 12	TECHNICAL FIELDS SEARCHED (Int. Cl.5)
X A	PATENT ABSTRACTS OF JAPAN vol. 14, no. 422 (P-1104)12 September 1990 & JP-A-2 163 769 (KONICA) 25 June 1990 * abstract * ---	1-9, 11 10, 12	G03G
X A	FR-A-2 611 930 (RICOH) * page 22, line 12 - page 23, line 23; figure 12 * ---	10 1-9, 11, 12	
Y A	DE-U-8 907 136 (KEILBACH) * page 1, paragraph 2 -paragraph 3 * ---	12 1-11	
		-/--	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 08 JULY 1992	Examiner LEISNER C.O.
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			

EPO FORM 1503 03.92 (P0401)



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number

EP 91 40 2953
Page 2

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)
A	EP-A-0 276 910 (CANON) * the whole document *	1-12	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 08 JULY 1992	Examiner LEISNER C.O.
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			

EPO FORM 1503 03.82 (P0401)