

Title (en)

Image forming apparatus and cleaning device therefor

Title (de)

Bilderzeugungsgerät und zugehörige Reinigungsvorrichtung

Title (fr)

Appareil de formation d'images et dispositif de nettoyage associé

Publication

EP 1288738 A3 20030528 (EN)

Application

EP 02019723 A 20020903

Priority

JP 2001268095 A 20010904

Abstract (en)

[origin: EP1288738A2] A cleaning device of the present invention includes a brush roller having a brush held in contact with the surface of a body to be cleaned. The brush contacts the surface of the body to be cleaned due to the weight of the brush roller and rotates by following the movement of the above surface. A flicker is held in contact with the brush in order to remove toner deposited on the brush. A casing forms a chamber therein for storing the toner removed by the flicker. The brush roller maintains an expected cleaning ability even when impurities deposited on the brush absorb moisture in a high-humidity environment and cannot be easily removed or when a great amount of toner deposits on the brush at a time. <IMAGE>

IPC 1-7

G03G 21/00; **G03G 15/02**

IPC 8 full level

G03G 15/00 (2006.01); **G03G 15/02** (2006.01); **G03G 21/00** (2006.01); **G03G 21/10** (2006.01)

CPC (source: EP)

G03G 15/0225 (2013.01); **G03G 21/0035** (2013.01); **G03G 2215/1657** (2013.01); **G03G 2215/1661** (2013.01); **G03G 2221/1693** (2013.01); **G03G 2221/18** (2013.01); **G03G 2221/183** (2013.01)

Citation (search report)

- [Y] US 5842081 A 19981124 - KANAME YOICHI [JP], et al
- [PX] EP 1229399 A1 20020807 - RICOH KK [JP]
- [Y] PATENT ABSTRACTS OF JAPAN vol. 009, no. 090 (P - 350) 19 April 1985 (1985-04-19)
- [A] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 14 31 December 1998 (1998-12-31)
- [A] PATENT ABSTRACTS OF JAPAN vol. 005, no. 201 (P - 094) 19 December 1981 (1981-12-19)
- [A] PATENT ABSTRACTS OF JAPAN vol. 005, no. 191 (P - 092) 5 December 1981 (1981-12-05)
- [A] PATENT ABSTRACTS OF JAPAN vol. 1996, no. 08 30 August 1996 (1996-08-30)

Cited by

CN100347617C; EP1494088A3; US7068960B2; US6961534B2; US7860428B2; US8027611B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

EP 1288738 A2 20030305; **EP 1288738 A3 20030528**; **EP 1288738 B1 20111102**; JP 2003076240 A 20030314; JP 4931303 B2 20120516

DOCDB simple family (application)

EP 02019723 A 20020903; JP 2001268095 A 20010904