

Title (en)

DEVELOPING DEVICE FOR USE IN IMAGE FORMING APPARATUS

Publication

**EP 0578190 A3 19970903 (EN)**

Application

**EP 93110760 A 19930706**

Priority

JP 18116792 A 19920708

Abstract (en)

[origin: EP0578190A2] A developing device of an image forming machine, by which an electrostatic latent image formed on an image carrier is developed with toner. The developing device includes at least one exhaust hole formed in a portion of the housing of the developing device, and an air filter, provided in the air exhaust hole, to prevent the leakage of developer. <IMAGE>

IPC 1-7

**G03G 15/08**; **G03G 15/09**

IPC 8 full level

**G03G 15/08** (2006.01); **G03G 15/09** (2006.01)

CPC (source: EP)

**G03G 15/0898** (2013.01); **G03G 15/0942** (2013.01)

Citation (search report)

- [X] US 4583112 A 19860415 - MORANO RICHARD A [US], et al
- [A] US 4666282 A 19870519 - ROWE PAUL J [US]
- [X] US 5057868 A 19911015 - SEKINO HITOSHI [JP], et al
- [X] PATENT ABSTRACTS OF JAPAN vol. 010, no. 344 (P - 518) 20 November 1986 (1986-11-20)
- [X] PATENT ABSTRACTS OF JAPAN vol. 009, no. 177 (P - 375) 23 July 1985 (1985-07-23)
- [X] PATENT ABSTRACTS OF JAPAN vol. 012, no. 046 (P - 665) 12 February 1988 (1988-02-12)
- [A] PATENT ABSTRACTS OF JAPAN vol. 016, no. 193 (P - 1349) 11 May 1992 (1992-05-11)
- [A] "TONER SEAL FOR PRINTER", IBM TECHNICAL DISCLOSURE BULLETIN, vol. 33, no. 3B, 1 August 1990 (1990-08-01), pages 29 - 30, XP000124246
- [X] EDWIN J. DAVIS: "EXTENDED DEVELOPER HOUSING SHOE SEAL", XEROX DISCLOSURE JOURNAL, vol. 9, no. 2, STAMFORD, CONNECTICUT, USA, pages 141, XP002033968
- [A] PATENT ABSTRACTS OF JAPAN vol. 010, no. 322 (P - 511) 31 October 1986 (1986-10-31)
- [A] PATENT ABSTRACTS OF JAPAN vol. 008, no. 042 (P - 256) 23 February 1984 (1984-02-23)
- [A] PATENT ABSTRACTS OF JAPAN vol. 010, no. 220 (P - 482) 31 July 1986 (1986-07-31)
- [E] PATENT ABSTRACTS OF JAPAN vol. 018, no. 256 (P - 1738) 16 May 1994 (1994-05-16)
- [E] PATENT ABSTRACTS OF JAPAN vol. 018, no. 256 (P - 1738) 16 May 1994 (1994-05-16)

Cited by

AU2004202645B1; EP0893743A1

Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

**EP 0578190 A2 19940112**; **EP 0578190 A3 19970903**; JP 3094255 B2 20001003; JP H0627795 A 19940204

DOCDB simple family (application)

**EP 93110760 A 19930706**; JP 18116792 A 19920708