

Title (en)

Developing device

Title (de)

Entwicklungsgerät

Title (fr)

Dispositif de développement

Publication

**EP 0777158 A1 19970604 (EN)**

Application

**EP 96308364 A 19961119**

Priority

JP 30962395 A 19951129

Abstract (en)

A developing device is equipped with a toner detecting means capable of correctly detecting whether an adequate amount of a magnetic toner is present or not. The toner detecting means comprises a permeability detector (82) having a permeability detection surface (86) exposed to a predetermined region, a periodically flowing means (88) for periodically flowing the toner present in the predetermined region to the permeability detection surface (86) of the permeability detector, and a determination means (98) for analyzing an output signal from the permeability detector.  
<IMAGE>

IPC 1-7

**G03G 15/08**

IPC 8 full level

**G01N 27/72** (2006.01); **G03G 15/08** (2006.01)

CPC (source: EP KR)

**G03G 15/0856** (2013.01 - EP KR); **G03G 15/086** (2013.01 - EP); **G03G 15/0877** (2013.01 - KR); **G03G 15/0893** (2013.01 - EP); **G03G 21/0058** (2013.01 - KR); **G03G 2215/083** (2013.01 - EP); **G03G 2215/0888** (2013.01 - KR); **G03G 2221/0089** (2013.01 - KR)

Citation (applicant)

JP H0756384 A 19950303 - MITA INDUSTRIAL CO LTD

Citation (search report)

- [XA] US 5317369 A 19940531 - NAKANISHI KEIICHI [JP]
- [A] EP 0486253 A2 19920520 - FUJITSU LTD [JP]
- [A] EP 0506423 A2 19920930 - FUJITSU LTD [JP]
- [A] EP 0672962 A2 19950920 - MITA INDUSTRIAL CO LTD [JP]
- [A] PATENT ABSTRACTS OF JAPAN vol. 013, no. 167 (P - 861) 20 April 1989 (1989-04-20)
- [A] PATENT ABSTRACTS OF JAPAN vol. 016, no. 489 (P - 1433) 9 October 1992 (1992-10-09)

Cited by

EP4172696A4; EP0964313A3

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**EP 0777158 A1 19970604**; CN 1158440 A 19970903; JP H09152766 A 19970610; KR 970028903 A 19970624

DOCDB simple family (application)

**EP 96308364 A 19961119**; CN 96120756 A 19961128; JP 30962395 A 19951129; KR 19960056465 A 19961122