

Title (en)

TONER FILLING SYSTEM COMPRISING A CARTRIDGE WITH MOVABLE CLOSURE

Publication

**EP 0054967 A3 19820825 (DE)**

Application

**EP 81110707 A 19811223**

Priority

US 21996280 A 19801224

Abstract (en)

[origin: US4371015A] System for loading toner into a laser copier or other machine. The toner is packaged in a cartridge having a discharge opening closed by a displaceable diaphragm. A filler neck is mounted on the machine in fluid communication with the toner hopper for receiving the cartridge, and a pin within the filler neck engages the diaphragm to dislodge the same from the discharge opening when the cartridge is inserted into the neck.

IPC 1-7

**G03G 15/08**; B65D 49/00

IPC 8 full level

**G03G 15/08** (2006.01)

CPC (source: EP US)

**G03G 15/0865** (2013.01 - EP US); **G03G 15/087** (2013.01 - EP US); **G03G 2215/0673** (2013.01 - EP US); **G03G 2215/0678** (2013.01 - EP US)

Citation (search report)

- [Y] DE 2226651 A1 19721228 - XEROX CORP
- [X] US 4060105 A 19771129 - FELDEISEN RONALD F, et al
- [Y] US 3941270 A 19760302 - SPIELMAN BURTON A

Cited by

EP0261643A3; EP0106569A3; WO8500902A1

Designated contracting state (EPC)

CH DE FR GB IT

DOCDB simple family (publication)

**EP 0054967 A2 19820630**; **EP 0054967 A3 19820825**; CA 1178431 A 19841127; DE 3150209 A1 19820722; FR 2496915 A1 19820625; GB 2089689 A 19820630; IT 8125770 A0 19811222; JP S57164768 A 19821009; US 4371015 A 19830201

DOCDB simple family (application)

**EP 81110707 A 19811223**; CA 393057 A 19811223; DE 3150209 A 19811218; FR 8124102 A 19811223; GB 8138859 A 19811223; IT 2577081 A 19811222; JP 20898481 A 19811223; US 21996280 A 19801224