

Title (en)

Integrated toner cartridge with toner agitator and sensing device

Title (de)

Integrierte Tonerkartusche mit Tonerschüttler und Sensorvorrichtung

Title (fr)

Cartouche d'encre intégrée avec agitateur d'encre et dispositif de détection

Publication

**EP 2196865 A2 20100616 (EN)**

Application

**EP 10158326 A 20050401**

Priority

- EP 05735117 A 20050401
- US 52132604 P 20040401

Abstract (en)

A toner cartridge with a uni-body construction reduces the cost of production as well as reducing the chance of failure during use. The toner cartridge includes a waste bin having a leading end that can be sculpted to mate with the cartridge-receiving cavities of a large number of printers. Additional improvements include an improved toner beater and sensing apparatus, the elimination of a pivotal motion between the elements of the cartridge, an enhanced method of determining the amount of toner remaining in the toner chamber, and an improved means of agitating the toner within the toner chamber.

IPC 8 full level

**G03G 21/18** (2006.01); **G03G 15/08** (2006.01)

CPC (source: EP)

**G03G 15/0856** (2013.01); **G03G 15/0862** (2013.01); **G03G 15/0889** (2013.01); **G03G 21/12** (2013.01); **G03G 21/181** (2013.01); **G03G 21/1821** (2013.01); **G03G 2215/085** (2013.01); **G03G 2215/0888** (2013.01)

Cited by

WO2013184102A1; US9329525B2; US9804526B2; US10088774B2; US10241441B2

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**WO 2005098550 A1 20051020**; BR PI0508061 A 20070717; CA 2561070 A1 20051020; CA 2561070 C 20100316; CA 2681904 A1 20051020; CA 2681904 C 20130625; EP 1730601 A2 20061213; EP 1730601 A4 20100217; EP 2196865 A2 20100616; EP 2196865 A3 20100901; WO 2005098549 A2 20051020; WO 2005098549 A3 20081113

DOCDB simple family (application)

**US 2005011177 W 20050401**; BR PI0508061 A 20050401; CA 2561070 A 20050401; CA 2681904 A 20050401; EP 05735117 A 20050401; EP 10158326 A 20050401; US 2005011160 W 20050401