

Title (en)  
TONER DELIVERY SYSTEM FOR A SHAKE-FREE TONER CARTRIDGE

Title (de)  
TONERZUFÜHRSYSTEM FÜR EINE SCHÜTTELFREIE TONERKARTUSCHE

Title (fr)  
SYSTÈME DE DISTRIBUTION DE TONER POUR UNE CARTOUCHE DE TONER SANS AGITATION

Publication  
**EP 2798407 A4 20150812 (EN)**

Application  
**EP 12861301 A 20121204**

Priority  

- US 201113340853 A 20111230
- US 201113340866 A 20111230
- US 2012067716 W 20121204

Abstract (en)  
[origin: WO2013101407A1] A toner delivery system for a shake-free toner cartridge comprises a toner paddle assembly having a plurality of scrapers. A main scraper scrapes toner adhering to interior surfaces and directs toner from a first region of the toner reservoir into the opening in a first portion of the front of the housing. A secondary scraper positioned adjacent with the main scraper scrapes and directs toner from a second region of the toner reservoir into the first region. A side scraper scrapes toner adhering to interior surfaces of respective side walls of the housing.

IPC 8 full level  
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CPC (source: EP)  
**G03G 15/0875** (2013.01); **G03G 15/0877** (2013.01); **G03G 21/1676** (2013.01)

Citation (search report)  

- [XY] US 2009274491 A1 20091105 - SATO SHOUGO [JP]
- [XY] US 6456810 B1 20020924 - DEGUCHI HIDEAKI [JP], et al
- [Y] US 2009087226 A1 20090402 - YAMAZAKI RYUYA [JP], et al
- [IY] US 6385422 B1 20020507 - ISHIGURO YASUYUKI [JP], et al
- See references of WO 2013101407A1

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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DOCDB simple family (application)  
**US 2012067716 W 20121204**; CA 2854370 A 20121204; CN 201280065271 A 20121204; EP 12861301 A 20121204; HK 15104221 A 20150504