

Title (en)
PUMP-LESS TONER DISPENSER

Title (de)
PUMPENLOSER TONERSPENDER

Title (fr)
DISTRIBUTEUR DE TONER SANS POMPE

Publication
EP 2417038 A4 20141001 (EN)

Application
EP 10762356 A 20100407

Priority

- US 2010030209 W 20100407
- US 41990809 A 20090407
- US 41990609 A 20090407

Abstract (en)
[origin: WO2010118113A1] Methods, systems, and apparatus, including computer programs encoded on a computer storage medium, for dispensing toners. In one aspect, a toner dispensing system includes a toner container; a cap and valve assembly coupled to the toner container, the cap and valve assembly including: a movable valve assembly, the movable valve assembly having a first position and a second position, a toner path, and an air inlet path, where in a first valve assembly position the toner path and the air inlet path are closed, and in a second valve assembly position the toner path and the air inlet path are open; an air assembly including a first air supply coupled to the air path of the cap and valve assembly and a second regulated air supply coupled to the toner container; and a control assembly for controlling the second air supply.

IPC 8 full level
B01F 13/10 (2006.01); **B65D 83/00** (2006.01); **G03G 15/10** (2006.01); **G03G 15/08** (2006.01)

CPC (source: EP KR)
B01F 33/84 (2022.01 - EP KR); **B01F 33/8442** (2022.01 - EP KR); **B65B 1/44** (2013.01 - KR); **B65D 83/06** (2013.01 - KR); **B65D 83/0811** (2013.01 - KR); **G03G 15/0879** (2013.01 - KR)

Citation (search report)

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- [IY] US 2007187409 A1 20070816 - WILFORD MICHAEL [US], et al
- [YA] US 5938080 A 19990817 - HAASER JAMES D [US], et al
- [A] JP H10167388 A 19980623 - FUJI ELECTRIC CO LTD
- See references of WO 2010118113A1

Designated contracting state (EPC)
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