

Title (en)
PUMP-LESS TONER DISPENSER

Title (de)
PUMPENLOSER TONERSPENDER

Title (fr)
DISTRIBUTEUR DE TONER SANS POMPE

Publication
EP 2417038 B1 20190116 (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
B65D 83/00 (2006.01); **B01F 13/10** (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 (examination)

- US 2003081969 A1 20030501 - MURAMATSU SATOSHI [JP], et al
- US 7219693 B2 20070522 - ALEX PETER [CA], et al

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

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