

Title (en)

Toner supplying unit and image forming apparatus

Title (de)

Tonerzufuhreinheit und Vorrichtung zur Bilderzeugung

Title (fr)

Unité d'injection de toner et appareil de formation d'image

Publication

EP 2626748 A3 20170412 (EN)

Application

EP 13153574 A 20130201

Priority

JP 2012024082 A 20120207

Abstract (en)

[origin: EP2626748A2] In the present invention, a toner supplying unit (130) includes a powder pump (131) and houses therein toner transferred by the powder pump (131). The powder pump (131) includes a stator (132) having a through hole (106) formed of a groove extending helically and a rotor (135) having a helical groove formed on the outer circumferential surface thereof such that a gap (G) for transferring the toner is formed between the helical groove and the inner circumferential surface of the through hole (106), and transfers the toner entering the gap (G) by rotating the rotor (135) and moving the gap (G). To the toner, inorganic fine particles with a volume-average particle diameter of equal to or larger than 30 nm are externally added.

IPC 8 full level

G03G 15/08 (2006.01)

CPC (source: EP)

G03G 15/0879 (2013.01)

Citation (search report)

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- [X] JP 2011039249 A 20110224 - RICOH CO LTD
- [X] US 2009142686 A1 20090604 - KOJIMA SATOSHI [JP], et al
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Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2626748 A2 20130814; EP 2626748 A3 20170412; CN 103246189 A 20130814; JP 2013174630 A 20130905

DOCDB simple family (application)

EP 13153574 A 20130201; CN 201310048744 A 20130206; JP 2012024082 A 20120207