

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)

- [X] US 2006029433 A1 20060209 - SAITO TAKUYA [JP], et al
- [X] JP 2011039249 A 20110224 - RICOH CO LTD
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Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (publication)

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

DOCDB simple family (application)

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