

Title (en)
PROCESS CARTRIDGE AND IMAGE FORMING APPARATUS

Title (de)
PROZESSKARTUSCHE UND BILDERZEUGUNGSVORRICHTUNG

Title (fr)
CARTOUCHE DE TRAITEMENT ET APPAREIL DE FORMATION D'IMAGES

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Application
EP 19207356 A 20131213

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Abstract (en)

A process cartridge comprises a photosensitive drum; a rotatable developing roller for developing an electrostatic latent image formed on the photosensitive drum; a rotatable toner supplying roller, provided in contact with the developing roller, for supplying toner to the developing roller; a toner chamber for containing toner; a developing chamber in which the toner supplying roller is positioned; a feeding member provided in the toner chamber and rotatable to feed the toner from the toner chamber to the developing chamber; a coupling operatively connected to the toner supply roller and configured to receive a driving force for rotating the toner supplying roller, the developing roller, and the feeding member; a first gear operatively connected to the toner supply roller and configured to transmit the driving force received by the coupling to the developing roller; and a second gear operatively connected to the developing roller and configured to transmit the driving force from the first gear to the developing roller, wherein the process cartridge is configured such that, when the coupling receives the driving force and the process cartridge is oriented with the developing roller positioned above the toner chamber, a rotational direction of the developing roller is opposite to a rotational direction of the toner supplying roller, a part of a surface of the toner supplying roller rotates from a first position at which the part of the surface of the toner supply roller contacts a surface of the developing roller to a second position where the part of the surface of the toner supplying roller moves out of contact with the surface of the developing roller, with the first position being above the second position, the feeding member feeds toner upward from the toner chamber to the developing chamber, and a speed of the surface of the toner supplying roller is greater than a speed of the surface of the developing roller.

IPC 8 full level
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CPC (source: EP RU US)
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