

Title (en)
Image forming apparatus and cleaning unit

Title (de)
Bilderzeugungsvorrichtung und Reinigungseinheit

Title (fr)
Appareil de formation d'images et unité de nettoyage

Publication
EP 2141551 A3 20140423 (EN)

Application
EP 09251719 A 20090703

Priority
• JP 2008176034 A 20080704
• JP 2009119828 A 20090518

Abstract (en)
[origin: EP2141551A2] A fixing unit (31) fixes a toner image transferred onto a recording sheet. A plurality of cleaning units (7) is provided for a plurality of areas on an outer surface of the fixing unit (31) divided in a direction perpendicular to a rotating axis, respectively, and independently removes unwanted substances adhered to the fixing unit (31) by making contact with the fixing unit (31). An image-data-amount calculating unit (5, 520) divides a recording sheet into a plurality of sections, and calculates image data amount of the toner image transferred onto the recording sheet for each of the sections. A drive control unit (6) brings a cleaning unit (7) corresponding to an area of the fixing unit (31) used to fix the toner image into contact with the fixing unit (31) based on the image data amount calculated by the image-data-amount calculating unit (5).

IPC 8 full level
G03G 15/20 (2006.01)

CPC (source: EP)
G03G 15/2025 (2013.01)

Citation (search report)
• [A] US 3649992 A 19720321 - THETTU RAGHULINGA REDDY
• [A] JP H08286546 A 19961101 - RICOH KK
• [A] JP 2007322987 A 20071213 - SHARP KK
• [A] US 4768062 A 19880830 - TANZAWA MISAO [JP], et al

Cited by
CN107148598A; US9158253B2; US10409203B2; US11897255B2

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

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
EP 2141551 A2 20100106; EP 2141551 A3 20140423; JP 2010033018 A 20100212; JP 5326797 B2 20131030

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EP 09251719 A 20090703; JP 2009119828 A 20090518