

Title (en)

Image forming device with online image quality evaluation and associated method

Title (de)

Bilderzeugungsvorrichtung mit Online-Bewertung der Bildqualität und zugehörigem Verfahren

Title (fr)

Dispositif de formation d'images avec évaluation de la qualité d'image en ligne et méthode associée

Publication

EP 1178362 B1 20060524 (DE)

Application

EP 01117708 A 20010727

Priority

US 62939400 A 20000801

Abstract (en)

[origin: EP1178362A2] An electrophotographic (EP) image-forming device and related method are provided for on-line quantitative assessment of the image information and development process. The EP image-forming device has a primary charger (118), an exposure device (120), a toning station (125), a transfer charger (130), a fusion station (140), and a cleaner (150) operatively disposed about the photoconductor. A transmission densitometer (165, 170) is positioned adjacent to the photoconductor. The densitometer determines the photoconductor density and the combination photoconductor and toner density for each step area on the image frame. The density readings are stored in memory. The photoconductor densities are subtracted from the combined densities to provide measured toner densities, which are then averaged for each step area. The average measured toner densities or voltage readings are compared to the aim toner densities or voltage readings for each step in the step tablet to quantitatively assess the image quality of the image-forming process. Preferably, every image frame on the photoconductor is assessed successively.

IPC 8 full level

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