

Title (en)

Toner storage unit, residual toner collect unit, toner container with these units and image forming apparatus with such toner container.

Title (de)

Tonerspeichereinheit, Resttonersammeleinheit, Tonercontainer mit diesen Einheiten und Bilderzeugungsgerät mit einem solchen Tonercontainer.

Title (fr)

Unité de stockage de toner, unité de collection de toner résiduel, récipient de toner comprenant ces unités et appareil de formation d'image utilisant un tel récipient.

Publication

EP 0670530 A3 19961002 (EN)

Application

EP 95103060 A 19950303

Priority

JP 5822294 A 19940303

Abstract (en)

[origin: EP0670530A2] A toner container comprises a toner storage section for providing a developer unit with a supply of toner, and a residual toner collect section integrally formed with the toner storage section and adapted to collect residual toner after an image has been developed. The present invention is intended to facilitate positioning, loading and unloading of the toner container, and also enable the toner to be smoothly supplied without being scattered from the toner container. The toner storage section includes a longitudinally extending rotary shaft and a resiliently deformable blade mounted to the rotary shaft. The toner storage section has a bottom, a first side wall, and the other or second side wall. A portion of the blade at a location corresponding to the first side wall is curved larger than a portion of the blade at a location corresponding to the second side wall. Alternatively, a portion of the blade at a location corresponding to the second side wall is curved gradually larger toward a portion of the blade at a location corresponding to the bottom. The toner storage section has an inclined side wall, and the residual toner collect section has an inclined side wall. The side walls of the toner storage section and the residual toner collect section are substantially parallel to the direction in which the toner container is loaded and unloaded. <IMAGE>

IPC 1-7

G03G 15/08; **G03G 21/12**

IPC 8 full level

G03G 15/08 (2006.01); **G03G 21/10** (2006.01); **G03G 21/12** (2006.01)

CPC (source: EP)

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