

Title (en)

Toner supply roll and production method therefore

Title (de)

Tonerzuführrolle und deren Herstellungsverfahren

Title (fr)

Rouleau de fourniture de toner et son procédé de fabrication

Publication

EP 1091262 A3 20040114 (EN)

Application

EP 00121843 A 20001006

Priority

JP 28795599 A 19991008

Abstract (en)

[origin: EP1091262A2] A toner supply roll comprises a shaft (1) and a soft polyurethane sponge layer (2) provided on an outer circumferential surface of the shaft, wherein not less than 90% of cell walls defining boundaries between respective adjacent cells have openings. The soft polyurethane sponge layer of the toner supply roll is of an open-cell foam structure in which the cells are three-dimensionally connected to one another via the openings in the cell walls, so that air contained in the sponge layer smoothly flows out when the sponge layer is depressed. Therefore, the sponge layer has a lower hardness than a soft polyurethane sponge layer of a closed-cells foam structure. Since not less than 90% of the cell walls defining the boundaries between the respective adjacent cells have openings, toner fluidity can properly be maintained. Therefore, the toner supply roll can minimise degradation of the toner during prolonged use and stably maintain toner scrapability and toner supplying capability, thereby ensuring formation of high quality images for an extended period of time. <IMAGE>

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F16C 13/00 (2006.01); **G03G 15/08** (2006.01)

CPC (source: EP)

G03G 15/0818 (2013.01); **G03G 2215/0863** (2013.01)

Citation (search report)

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