

Title (en)

DEVICE ENABLING THE CLEAN REPLACEMENT OF A TONER CONTAINER IN A TONER TRANSFER SYSTEM OF A NON-MECHANICAL PRINTER OR COPIER

Publication

EP 0308431 B1 19900307 (DE)

Application

EP 87906162 A 19870925

Priority

DE 3633593 A 19861002

Abstract (en)

[origin: WO8802505A1] In a transfer system (19) located in a printer, a suction spout communicating via a pipe with the development unit is arranged in a vertically movable manner inside a protective conduit (28) impervious to the toner. The transfer system comprises at its lower end an adapter serving for connection of the toner container (10). During replacement, the new container (10) is made to pivot via a support system (32) onto the adapter and connected with the latter. A cutting system (31) associated with the adapter then pierces a sealing film of said toner container (10). For emptying, the suction spout is immersed vertically in the toner container (10), the bottom of which has a funnel-shaped configuration serving as a toner storage area.

IPC 1-7

G03G 15/08

IPC 8 full level

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

CPC (source: EP US)

G03G 15/087 (2013.01 - EP US); G03G 15/0879 (2013.01 - EP US); G03G 2215/0678 (2013.01 - EP US); G03G 2215/069 (2013.01 - EP US); Y10S 222/01 (2013.01 - EP US)

Cited by

DE19642570A1; DE19642570B4; US7054591B1; US6229975B1

Designated contracting state (EPC)

DE FR GB IT NL SE

DOCDB simple family (publication)

WO 8802505 A1 19880407; DE 3633593 A1 19880407; DE 3761863 D1 19900412; EP 0308431 A1 19890329; EP 0308431 B1 19900307; JP H02500056 A 19900111; US 5074342 A 19911224

DOCDB simple family (application)

DE 8700442 W 19870925; DE 3633593 A 19861002; DE 3761863 T 19870925; EP 87906162 A 19870925; JP 50572787 A 19870925; US 34788189 A 19890403