

Title (en)  
INK RIBBON CARTRIDGE WITH REFILLABLE SPOOLS

Publication  
**EP 0279243 B1 19920819 (DE)**

Application  
**EP 88101215 A 19880128**

Priority  
• DE 3705058 A 19870218  
• DE 3742860 A 19871217

Abstract (en)  
[origin: US4854755A] A reloadable ribbon cassette system for typewriters or office machines of similar construction employs a housing which receives an exchangeable supply spool for the ribbon and an exchangeable take-up spool core. To facilitate the reloading process, the take-up spool core is mounted in the housing on a bearing pin which extends upward from a contact surface. The take-up spool core has a bearing bore into which the bearing pin extends and a bearing surface which rests on the contact surface. The contact surface is disposed closely below a receiving bore in the take-up spool core which accommodates a fastening element attached to the end of the ribbon.

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**B41J 32/00**; **B41J 31/10**

IPC 8 full level  
**B41J 31/10** (2006.01); **B41J 32/00** (2006.01); **B41J 33/00** (2006.01)

CPC (source: EP US)  
**B41J 31/10** (2013.01 - EP US); **B41J 32/00** (2013.01 - EP US); **B41J 33/00** (2013.01 - EP US); **B41J 33/006** (2013.01 - EP US)

Designated contracting state (EPC)  
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**US 4854755 A 19890808**; CA 1297340 C 19920317; EP 0279243 A2 19880824; EP 0279243 A3 19890809; EP 0279243 B1 19920819

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**US 15720088 A 19880218**; CA 559055 A 19880217; EP 88101215 A 19880128