

Title (en)
WEB-SEVERING DEVICE FOR A WEB-FED ROTARY PRINTING PRESS

Publication
EP 0187642 A3 19880420 (DE)

Application
EP 86100049 A 19860103

Priority
DE 3500719 A 19850111

Abstract (en)
[origin: US4676159A] To eliminate space requirements of an additional separating device to cut a torn web of paper in a rotary printing machine, a paper cutter is integrated into the circumference of a guide or transport roller (1) in the form of a knife (12) smoothly merging with the circumference (2) of the roller (1), but pivotable outwardly of the circumference (compare FIGS. 2 and 3) if a "torn paper" condition is sensed. In normal operation, a cam (6) rotates with the roller (1) being carried along, for example by friction, by a stub shaft (4). Upon sensing a "torn paper" condition, an electromagnet (20) pulls a latch (17) in engagement with a ratchet stop (16) on the cam, inhibiting rotation of the cam with the roller (1) and causing a cam follower (8) to rise on a land (7) of the cam, thereby pivoting the knife out of circumferential position with respect to the roller and severing the paper web (5).

IPC 1-7
B41F 13/60

IPC 8 full level
B26D 1/02 (2006.01); **B41F 13/02** (2006.01); **B41F 13/60** (2006.01); **B41F 33/00** (2006.01); **B65H 35/08** (2006.01)

CPC (source: EP US)
B41F 13/02 (2013.01 - EP US)

Citation (search report)
[A] PATENT ABSTRACTS OF JAPAN, Band 8, Nr. 274 (M-345)[1711], 14. Dezember 1984; & JP-A-59 143 855 (KOUYOU JIDOUKI K.K.) 17-08-1984

Cited by
AU2000253737B2; CN111268500A; CN113425188A; WO0202344A1

Designated contracting state (EPC)
CH FR GB IT LI SE

DOCDB simple family (publication)
EP 0187642 A2 19860716; EP 0187642 A3 19880420; EP 0187642 B1 19901212; DE 3500719 A1 19860717; DE 3500719 C2 19861106; JP S61162460 A 19860723; US 4676159 A 19870630

DOCDB simple family (application)
EP 86100049 A 19860103; DE 3500719 A 19850111; JP 232786 A 19860110; US 81362185 A 19851226