

Title (en)  
Folding apparatus in a rotary printing machine.

Title (de)  
Falzapparat an Rollenrotationsdruckmaschinen.

Title (fr)  
Dispositif de pliage dans une rotative d'impression.

Publication  
**EP 0151412 A2 19850814 (DE)**

Application  
**EP 85100430 A 19850117**

Priority  
DE 3404170 A 19840207

Abstract (en)  
[origin: US4564183A] A folding apparatus for a web-fed rotary printing machine having a train of successive cylinders including a slot-type collecting cylinder, a blade cylinder with two cutting blades disposed on the periphery thereof for cutting full format lengths off a web and with cam-controlled folding blades offset 90 DEG from the cutting blades, a folding-jaw cylinder with two controlled folding jaws disposed at the periphery thereof and a cam-controlled folding blade offset by 45 DEG downstream from the folding jaws, and a second cross-folding cylinder having two gripper rows cooperating with the folding jaws of the folding-jaw cylinder and having two controlled folding jaws offset downstream from the gripper rows and cooperating with the folding blades of the folding jaw cylinder includes three needle rows for collecting being disposed with equal mutual spacing around the periphery of the slot-type collecting cylinder, the periphery of the collecting cylinder being able to accept three half format lengths of the web; two additional removable cutting blades located on the blade cylinder at an offset of 90 DEG from the cutting blades already fixed thereon and being disposed together with the folding blades of the blade cylinder on a common support pivotable into a respective working position, the folding-jaw cylinder carrying controllable folding-blade spindles selectively with respective mutually opposing folding blades on a leading side thereof and removable needle rows on a trailing side thereof, the folding-jaw cylinder and a control cam carried thereby being pivotable into working position in accordance with the folded product to be produced; and the second cross-folding cylinder carrying two controlled folding-jaw spindles for selectively carrying a gripper row and a folding-jaw half, depending upon the folded product to be produced whereby, selectively, by turning the body of the second cross-folding cylinder and a control cam mounted thereon, a respective folding jaw is bringable into operative connection with a respective folding blade of the folding-jaw cylinder, and the gripper row of the second cross-folding cylinder is bringable into operative connection with a respective needle row of the folding-jaw cylinder.

Abstract (de)  
Die Erfindung bezieht sich auf einen Falzapparat an Rollenrotationsdruckmaschinen mit einem Nuten-Sammelzylinder, einem Messerzylinder, einem Falzklappenzyylinder und einem Querfalzzylinder, bei dem neben der normalen Produktion ohne Kosten und aufwendige Umstellarbeiten auch zweimal vier Seiten gesammelt, mit halber Formatlänge und längsgefaltet ausgelegt werden können, so daß keine zusätzlichen Aggregate erforderlich sind, die die Bedienung erschweren und erhebliche Zusatzkosten verursachen.

IPC 1-7  
**B41F 13/56**

IPC 8 full level  
**B41F 13/62** (2006.01); **B65H 45/16** (2006.01); **B65H 45/28** (2006.01)

CPC (source: EP US)  
**B65H 45/168** (2013.01 - EP US)

Cited by  
EP0302489A3; US6125728A; EP0734988A3

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

DOCDB simple family (publication)  
**EP 0151412 A2 19850814; EP 0151412 A3 19870729; EP 0151412 B1 19900411**; CA 1248981 A 19890117; DE 3404170 A1 19850808; DE 3404170 C2 19931111; JP H0323473 B2 19910329; JP S60183468 A 19850918; US 4564183 A 19860114

DOCDB simple family (application)  
**EP 85100430 A 19850117**; CA 472546 A 19850122; DE 3404170 A 19840207; JP 1938885 A 19850205; US 69903285 A 19850207