

## Title (en)

Variable folding system with linear drives, in particular for printers

## Title (de)

Variables Falzsystem mit Linearantrieben insbesondere für Druckmaschinen

## Title (fr)

Système de pliage variable avec entraînements linéaires, en particulier pour presses

## Publication

**EP 2532492 A1 20121212 (DE)**

## Application

**EP 12181070 A 20100608**

## Priority

- EP 10726047 A 20100608
- DE 102009026828 A 20090608

## Abstract (en)

The method involves separating material sections (11) from a printed object web (1) i.e. paper web, using cutting units e.g. cutting tool carrier (5) and cutting knife (7), and removing the material sections from the cutting units. Driving elements (4, 6) are engaged with the web during actuation of the cutting units. The driving elements are displaced together with an object strip over a displacement course by a controllable linear drive after cutting process. The displacement course is adjusted and/or varied by the linear drive based on a section format pre-defined for the material sections. Independent claims are also included for the following: (1) a device for separating a material section from a strip-like printed object web (2) a device for creasing a material section.

## Abstract (de)

Verfahren zum Falzen eines Materialabschnitts (11), beispielsweise bedruckter Papierbogen, wobei ein Falzorgan (18) im Bereich einer Sollfalzlinie gegen den Materialabschnitt (11) gedrückt wird, dadurch gekennzeichnet, dass im Zuge des Drückens des Falzmittels (18) der ganz oder teilweise gefaltete Materialabschnitt (12) mit einem Greifer (20) oder sonstigen Mitnehmer in Eingriff gebracht wird, der dann mittels eines steuerbaren Linearantriebs (9) mit einstellbarem und/oder variierbarem Bewegungshub vom Falzorgan (18) entfernt und einer Auslage (22) oder sonstigen Transport- oder Bearbeitungsstation zur Verfügung gestellt wird.

## IPC 8 full level

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## CPC (source: EP US)

**B26D 1/085** (2013.01 - EP US); **B26D 5/00** (2013.01 - US); **B26D 5/20** (2013.01 - EP US); **B26D 5/34** (2013.01 - EP US); **B26D 7/015** (2013.01 - EP US); **B26D 7/18** (2013.01 - EP US); **B26D 7/20** (2013.01 - EP US); **B65H 20/22** (2013.01 - EP US); **B65H 29/10** (2013.01 - EP US); **B65H 35/04** (2013.01 - EP US); **B65H 45/06** (2013.01 - US); **B65H 45/12** (2013.01 - EP US); **B65H 45/18** (2013.01 - EP US); **B65H 45/28** (2013.01 - EP US); **B26D 2007/0043** (2013.01 - EP US); **B65H 2511/11** (2013.01 - EP US); **B65H 2511/222** (2013.01 - EP US); **B65H 2555/13** (2013.01 - EP US); **Y10T 83/0448** (2015.04 - EP US); **Y10T 83/202** (2015.04 - EP US)

## Citation (applicant)

- EP 0335190 A2 19891004 - ROLAND MAN DRUCKMASCH [DE]
- DE 2917616 C2 19891012
- DE 19843872 A1 20000330 - SAECHSISCHES INST FUER DIE DRU [DE]
- DE 102008012812 A1 20081113 - MITSUBISHI HEAVY IND LTD [JP]
- DE 10055582 A1 20010607 - HEIDELBERGER DRUCKMASCH AG [DE]
- DE 20000554 U1 20000427 - CWW GERKO AKUSTIK GMBH & CO KG [DE]
- DE 840551 C 19520603 - SAPAL PLIEUSES AUTOMATIQUES
- DE 10133213 A1 20030130 - BIECK RAINER [DE], et al
- "Handbuch Printmedien", 2000, SPRINGER VERLAG, pages: 298 - 300

## Citation (search report)

- [A] GB 191411336 A 19141123 - ANNAND ROBERT CUMMING
- [A] GB 191209020 A 19130220 - LAKE WILLIAM EDWARD [GB]
- [AD] EP 0335190 B1 19930818
- [AD] DE 2917616 C2 19891012
- [AD] DE 19843872 A1 20000330 - SAECHSISCHES INST FUER DIE DRU [DE]
- [A] EP 1785353 A1 20070516 - ELBA SPA [IT]

## Cited by

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## DOCDB simple family (application)

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