

Title (en)

Device to curl ply-material, especially paper

Title (de)

Vorrichtung zur Krümmung von Lagenmaterial, insbesondere Papier

Title (fr)

Dispositif pour gondoler du matériau en couche, spécialement du papier

Publication

**EP 0876978 A3 19990818 (DE)**

Application

**EP 98105172 A 19980321**

Priority

DE 19713207 A 19970328

Abstract (en)

[origin: JPH10273258A] PROBLEM TO BE SOLVED: To introduce widely ranging stress to a material with ease. SOLUTION: A plurality of gaps 20, each of which is specified by a deflection roller 17 and a static curved face 16, are arranged for leveling a web of paper 3. A winding angle on the curved face 16 is deflected, and for passing the web 3 through a device 1 without bending the web 3, the deflection roller 17 can be operated by means of a positioning device 30 so as to be moved to the deflection position. In this way, high speed operation can be accomplished with a reliable function and simple structure.

IPC 1-7

**B65H 23/34**

IPC 8 full level

**B65H 23/34** (2006.01); **D21G 9/00** (2006.01)

CPC (source: EP KR US)

**B65H 23/34** (2013.01 - EP KR US); **B65H 2601/52** (2013.01 - KR)

Citation (search report)

- [XY] DE 19506465 A1 19960829 - BOEWE SYSTEC AG [DE]
- [XY] WO 9421546 A1 19940929 - KOMORI CHAMBON [FR], et al
- [X] EP 0374827 A1 19900627 - ALCATEL BUSINESS SYSTEMS [FR]
- [A] CH 623285 A5 19810529 - BOBST FILS SA J [CH]
- [X] DE 2646281 A1 19770428 - OXY DRY CORP
- [A] DE 29600403 U1 19960307 - HEIDELBERGER DRUCKMASCH AG [DE]
- [A] US 4013284 A 19770322 - DEMETRE S GORDON
- [A] DE 3833804 A1 19890608 - STEFFEN & BERGMANN KONSTRUKTIO [DE]
- [A] US 5154688 A 19921013 - BOYD BRENT A [US]

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**DE 19713207 A1 19981001**; DE 59810124 D1 20031218; EP 0876978 A2 19981111; EP 0876978 A3 19990818; EP 0876978 B1 20031112; ES 2210609 T3 20040701; JP H10273258 A 19981013; KR 19980080811 A 19981125; US 6302678 B1 20011016

DOCDB simple family (application)

**DE 19713207 A 19970328**; DE 59810124 T 19980321; EP 98105172 A 19980321; ES 98105172 T 19980321; JP 9059598 A 19980320; KR 19980010821 A 19980327; US 4973198 A 19980327