

Title (en)

Device for measuring the thickness of printed products in a shingled formation.

Title (de)

Dickenmessung an Druckprodukten in einem Schuppenstrom.

Title (fr)

Dispositif pour mesurer l'épaisseur de produits imprimés en formation d'écailles de poisson.

Publication

**EP 0479717 B1 19950322 (DE)**

Application

**EP 91810672 A 19910822**

Priority

CH 323190 A 19901005

Abstract (en)

[origin: EP0479717A1] In a shingled formation, in particular in a compact shingled formation (S.4) of flat objects, for example printed products, the thickness of each individual element is measured between a deflectable measuring part and a reference part, in that, in a cycled movement for each measurement, the reference part grips below the part of the shingle forming the surface of the shingled formation. In the preferred embodiment of the device, the reference part is constructed as an impeller wheel (22) which is arranged at the side of the shingled formation (S.4) in such a way that its vanes (22.1/2/3/4) are pushed between the shingle lying at the surface and the rest of the shingled formation when the impeller wheel (22) is rotated about its axle (23). The deflectable measuring part is constructed as a scanning roll (21) which is pressed by a spring force into an adjustable zero position. The deflection of the scanning roll (21) is measured and called up in cycles. The cycle of the movement of the reference part and the cycle of the call-up of the measured value are synchronised and coordinated with the speed of the shingled formation and the mutual spacing of the elements of the shingled formation. <IMAGE>

IPC 1-7

**B65H 7/02**

IPC 8 full level

**B41F 33/14** (2006.01); **B65H 7/02** (2006.01); **B65H 7/12** (2006.01); **G01B 5/06** (2006.01); **G01B 21/08** (2006.01)

CPC (source: EP US)

**B65H 7/02** (2013.01 - EP US); **B65H 2511/13** (2013.01 - EP US); **B65H 2511/20** (2013.01 - EP US); **B65H 2511/22** (2013.01 - EP US); **B65H 2553/61** (2013.01 - EP US)

C-Set (source: EP US)

1. **B65H 2511/13** + **B65H 2220/03**
2. **B65H 2511/20** + **B65H 2220/01** + **B65H 2220/11**
3. **B65H 2511/22** + **B65H 2220/01**

Cited by

EP1661833A1

Designated contracting state (EPC)

AT CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)

**EP 0479717 A1 19920408**; **EP 0479717 B1 19950322**; AT E120153 T1 19950415; AU 650898 B2 19940707; AU 8275191 A 19920409; CA 2051244 A1 19920406; DE 59104989 D1 19950427; ES 2073152 T3 19950801; FI 101902 B1 19980915; FI 101902 B 19980915; FI 914479 A0 19910924; FI 914479 A 19920406; JP 3100195 B2 20001016; JP H04297818 A 19921021; RU 2069305 C1 19961120; US 5154279 A 19921013

DOCDB simple family (application)

**EP 91810672 A 19910822**; AT 91810672 T 19910822; AU 8275191 A 19910827; CA 2051244 A 19910912; DE 59104989 T 19910822; ES 91810672 T 19910822; FI 914479 A 19910924; JP 25772391 A 19911004; SU 5001767 A 19911004; US 75402191 A 19910903