

Title (en)

Method for the binding of comb-like shaped wire binding elements

Title (de)

Verfahren zum Biegen von Drahtkammbindeelementen

Title (fr)

Procédé pour le pliage d'éléments de reliure en fil en forme de peigne

Publication

**EP 1378371 B1 20110615 (DE)**

Application

**EP 03008891 A 20030430**

Priority

DE 10223481 A 20020527

Abstract (en)

[origin: US2004052615A1] The invention relates to a methods and devices for bending wire binding elements that are used in a wire comb binding. According to various aspects of the invention, methods and devices are provided for bending wire binding elements that are adapted in particular to varying thicknesses of stacks of sheet-form printing materials, preferably without retooling.

IPC 8 full level

**B42B 5/10** (2006.01); **B42F 13/16** (2006.01); **B21F 45/16** (2006.01); **B42B 5/08** (2006.01); **B65H 37/04** (2006.01)

CPC (source: EP US)

**B21F 45/16** (2013.01 - EP US); **B42B 5/10** (2013.01 - EP US); **B42B 5/103** (2013.01 - EP US)

Cited by

US9862221B2; US10569590B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

**US 2004052615 A1 20040318**; AT E512804 T1 20110715; CN 1461706 A 20031217; DE 10223481 A1 20031211; EP 1378371 A1 20040107; EP 1378371 B1 20110615; JP 2004001525 A 20040108

DOCDB simple family (application)

**US 44352103 A 20030522**; AT 03008891 T 20030430; CN 03138286 A 20030526; DE 10223481 A 20020527; EP 03008891 A 20030430; JP 2003149662 A 20030527