

Title (en)  
METHOD AND DEVICE FOR THE MERGING OF DIFFERENT PAPER WEBS

Title (de)  
VERFAHREN UND VORRICHTUNG ZUM ZUSAMMENFÜHREN UNTERSCHIEDLICHER PAPIERBAHNEN

Title (fr)  
PROCEDE ET DISPOSITIF POUR REUNIR DES BANDES DE PAPIER DIFFERENTES

Publication  
**EP 1282575 B1 20060802 (DE)**

Application  
**EP 01940494 A 20010517**

Priority  
• CH 10172000 A 20000519  
• EP 0105649 W 20010517

Abstract (en)  
[origin: WO0189971A1] The invention relates to a method and device for the merging and finishing of at least two paper webs (1, 2, 3, 4), controlled in the longitudinal register, which are distinctly different in quality and in finishing steps to be undertaken. The device comprises at least two web-specific processing regions (13A, 13B, 13C), a merging unit (21), a common processing region (22), controlled in the longitudinal register and means for the control of the longitudinal register (14), essentially comprising one longitudinal register sensor per paper web. Markings are placed on the paper web with periodic separations. Longitudinal register sensors (14) recognise said markings and transmit signals to the control unit, which determines possible variations and controls the means for regulation of the longitudinal register in such a way that variations in the longitudinal register are compensated. The device further comprises means for setting the web tension of the individual paper webs, with at least two tension-adjusting devices (19A-D, 20A-D) in the course of the paper webs and, on at least one paper web, at least three adjusters, with which the web tension may be adjusted independently of each other in at least two partial regions, defined by the above. The partial regions preferably essentially correspond to the web-specific and the common processing regions. The web tension in the web-specific processing regions can thus be optimally adjusted to match the paper quality and the finishing process requirements.

IPC 8 full level  
**B65H 23/188** (2006.01); **B32B 37/20** (2006.01)

CPC (source: EP US)  
**B65H 23/1886** (2013.01 - EP US); **B65H 2701/1864** (2013.01 - EP US)

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**WO 0189971 A1 20011129**; AT E334924 T1 20060815; AU 7404801 A 20011203; CA 2409270 A1 20021119; DE 50110622 D1 20060914; EP 1282575 A1 20030212; EP 1282575 B1 20060802; ES 2269417 T3 20070401; HK 1049650 A1 20030523; JP 2003534174 A 20031118; PL 357824 A1 20040726; RU 2265570 C2 20051210; US 2004026056 A1 20040212

DOCDB simple family (application)  
**EP 0105649 W 20010517**; AT 01940494 T 20010517; AU 7404801 A 20010517; CA 2409270 A 20010517; DE 50110622 T 20010517; EP 01940494 A 20010517; ES 01940494 T 20010517; HK 03101502 A 20030228; JP 2001586168 A 20010517; PL 35782401 A 20010517; RU 2002134182 A 20010517; US 27656003 A 20030905