

Title (en)

METHOD AND APPARATUS TO CONTINUOUSLY SEPARATE CUT PIECES FROM FLEXIBLE MATERIAL

Title (de)

VERFAHREN UND VORRICHTUNG ZUM KONTINUIERLICHEN TRENNEN VON GESCHNITTENEN STÜCKEN VON FLEXIBLEM MATERIAL

Title (fr)

PROCEDE ET DISPOSITIF PERMETTANT DE SEPARER EN CONTINU DES PIECES DECOUPEES DANS UNE MATIERE FLEXIBLE

Publication

EP 1883596 A4 20100407 (EN)

Application

EP 06744625 A 20060502

Priority

- IB 2006001106 W 20060502
- US 67724405 P 20050503

Abstract (en)

[origin: WO2006117646A1] A fully addressable vacuum/ positive pressure roller may select and remove pattern pieces that have been severed or cut from a web or sheet of flexible material even though the pattern pieces are still embedded within the web, both being supported on a common surface. Vacuum rollers may be disposed along the path of an advancing web with the rollers being oriented such that each roller's axis of rotation is both orthogonal to the advance direction of the web and orthogonal to the surface normal of the web so that the web travels around at least a portion of the arc of each roller. The vacuum roller for conveying the web or sheet type material includes an external surface having a plurality of apertures there through. A plurality of addressable valves are in corresponding fluid communication with the plurality of apertures. By controlling the state of each of the plurality of valves, the user may selectively address each valve independently in order to achieve a desired state of each of the valves at all times and/ or positions during operation.

IPC 8 full level

B26D 5/00 (2006.01); **B26D 7/18** (2006.01); **B65H 37/00** (2006.01); **B65H 43/00** (2006.01)

CPC (source: EP US)

B26D 5/00 (2013.01 - EP US); **B26D 5/007** (2013.01 - EP US); **B26D 7/1854** (2013.01 - EP US); **B26D 7/1863** (2013.01 - EP US); **B65H 20/12** (2013.01 - EP US); **B65H 27/00** (2013.01 - EP US); **B65H 35/0006** (2013.01 - EP US); **B26D 7/018** (2013.01 - EP US); **B65H 2301/5115** (2013.01 - EP US); **B65H 2406/33** (2013.01 - EP US); **B65H 2406/361** (2013.01 - EP US); **B65H 2406/362** (2013.01 - EP US); **B65H 2406/363** (2013.01 - EP US); **B65H 2406/365** (2013.01 - EP US); **B65H 2511/10** (2013.01 - EP US); **B65H 2511/20** (2013.01 - EP US)

Citation (search report)

- [X] DE 19854844 A1 19990701 - HEIDELBERGER DRUCKMASCH AG [DE]
- [A] DE 4409195 A1 19940922 - MITSUBISHI ELECTRIC CORP [JP]
- See references of WO 2006117646A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 2006117646 A1 20061109; CA 2605810 A1 20061109; EP 1883596 A1 20080206; EP 1883596 A4 20100407; US 2006261120 A1 20061123

DOCDB simple family (application)

IB 2006001106 W 20060502; CA 2605810 A 20060502; EP 06744625 A 20060502; US 38116406 A 20060502