

Title (en)

Roller for conveying a web or sheet of paper in paper converting machine and conveying method thus obtained

Title (de)

Walze zum Fördern einer Papierbahn oder eines Papierblattes in einer Papierverarbeitungsmaschine und dabei erzieltetes Transportverfahren

Title (fr)

Rouleau pour convoyer une bande ou une feuille de papier dans une machine de conversion de papier et méthode obtenue de convoyage

Publication

EP 1449799 A1 20040825 (EN)

Application

EP 03425091 A 20030218

Priority

EP 03425091 A 20030218

Abstract (en)

The roller (1) is used for conveying a web or sheet of paper (20) in paper converting machines, for example, a rewinding, a winding, an interfolding machine. It comprises a first outer cylindrical tubular body (2) equipped with a plurality of radial holes (3), arranged according to substantially longitudinal rows, capable of rotating with respect to a second inner fixed body (4) coaxial to it and connected to a suction system. The second body (4) has tubular cylindrical geometry like the first body (2) and has a plurality of apertures (5) and two radial boards (7) arranged at opposite sides with respect to the apertures (5). The inner surface of the first cylindrical tubular body (2), together with the radial boards (7) and to the external surface of the second tubular body (4), define a suction chamber (6) that brings selectively in communication selected rows of holes (3) of the first cylindrical tubular body (2) with the apertures (5) of the second tubular body (4) and then with the suction system of the machine during the relative rotation of the two bodies. Therefore, a web or sheet of paper (20) adheres to the external surface of the first body (2) only in the portion P1P2 of surface set between the rows of holes (3') that communicates with the suction chamber (figure 4). <IMAGE>

IPC 1-7

B65H 27/00

IPC 8 full level

B65H 27/00 (2006.01)

CPC (source: EP US)

B65H 27/00 (2013.01 - EP US); **B65H 45/24** (2013.01 - EP US); **B65H 45/28** (2013.01 - EP US); **B65H 2406/3614** (2013.01 - EP US)

Citation (search report)

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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 SE SI SK TR

DOCDB simple family (publication)

EP 1449799 A1 20040825; AT E532732 T1 20111115; ES 2376577 T3 20120315; ES 2376577 T5 20190214; US 2004159999 A1 20040819

DOCDB simple family (application)

EP 03425091 A 20030218; AT 04003595 T 20040218; ES 04003595 T 20040218; US 77994004 A 20040217