

Title (en)

WINDING-UP PROCESS AND MACHINE FOR WINDING UP PAPER OR CARDBOARD WEBS

Title (de)

VERFAHREN UND WICKELMASCHINE ZUM AUFWICKELN VON PAPIER- ODER KARTONBAHNEN

Title (fr)

PROCEDE ET MACHINE D'ENROULEMENT POUR L'ENROULEMENT DE BANDES DE PAPIER OU DE CARTON

Publication

**EP 0925245 B1 20011128 (DE)**

Application

**EP 97944802 A 19970828**

Priority

- DE 29615385 U 19960904
- DE 19731060 A 19970719
- EP 9704680 W 19970828
- EP 9700146 W 19970115

Abstract (en)

[origin: US6234419B1] A process and a winding machine for winding up paper or cardboard utilizes a support roller with a compressible outer layer of at least 5 mm in thickness and a modulus of compression of less than 10 MPa and the contact pressure controlled so that the width of the nip has a minimum value which is a function of the speed with which the web is wound up.

IPC 1-7

**B65H 18/00**; **B65H 27/00**; **B65H 18/08**; **B65H 18/26**

IPC 8 full level

**B65H 18/10** (2006.01); **B65H 18/00** (2006.01); **B65H 18/08** (2006.01); **B65H 18/16** (2006.01); **B65H 18/20** (2006.01); **B65H 18/26** (2006.01); **B65H 27/00** (2006.01); **B65H 75/18** (2006.01); **D01G 27/02** (2006.01)

CPC (source: EP US)

**B65H 18/16** (2013.01 - EP US); **B65H 18/20** (2013.01 - EP US); **B65H 27/00** (2013.01 - EP US); **B65H 75/18** (2013.01 - EP US); **D01G 27/02** (2013.01 - EP US); **B65H 2301/4148** (2013.01 - EP US); **B65H 2301/414863** (2013.01 - EP US); **B65H 2401/10** (2013.01 - EP US); **B65H 2404/1316** (2013.01 - EP US); **B65H 2404/1441** (2013.01 - EP US); **B65H 2404/181** (2013.01 - EP US); **B65H 2404/185** (2013.01 - EP US); **B65H 2404/4214** (2013.01 - EP US); **B65H 2404/521** (2013.01 - EP US)

Designated contracting state (EPC)

AT DE ES FI FR GB IT NL SE

DOCDB simple family (publication)

**US 6234419 B1 20010522**; AT E209600 T1 20011215; AU 4618997 A 19980326; CA 2264804 A1 19980312; CA 2264804 C 20030422; DE 59705579 D1 20020110; EP 0925245 A1 19990630; EP 0925245 B1 20011128; ES 2169435 T3 20020701; JP 2000502312 A 20000229; JP 3219776 B2 20011015; WO 9809901 A1 19980312

DOCDB simple family (application)

**US 25426599 A 19990519**; AT 97944802 T 19970828; AU 4618997 A 19970828; CA 2264804 A 19970828; DE 59705579 T 19970828; EP 9704680 W 19970828; EP 97944802 A 19970828; ES 97944802 T 19970828; JP 51220098 A 19970828