

Title (en)

DRAW ROLLER FOR STRIPLIKE MATERIALS, ESPECIALLY PAPER OR CARDBOARD STRIPS, PLASTIC OR METAL FOILS

Title (de)

ZUGWALZE FÜR BAHNFÖRMIGE MATERIALIEN, INSBESONDERE FÜR PAPIER- ODER KARTONBAHNEN, KUNSTSTOFF- ODER METALLFOLIEN

Title (fr)

CYLINDRE DE TRACTION DESTINE A DES MATERIAUX EN BANDES, NOTAMMENT DES BANDES DE PAPIER OU DE CARTON, DES FILMS EN PLASTIQUE OU METAL

Publication

EP 1121317 A1 20010808 (DE)

Application

EP 99948837 A 19990923

Priority

- DE 19847799 A 19981016
- EP 9907075 W 19990923

Abstract (en)

[origin: US6585139B1] Draw rollers for striplike materials (especially paper or cardboard strips, plastic or metal foils), having a sheath (1) that can rotate around a fixed inner component, whereby said sheath is provided with air holes along the entire surface thereof, are already known per se. A vacuum chamber (8) is arranged in the winding area of the strip. Said vacuum chamber (8) can be subjected to an underpressure. According to the invention, another vacuum chamber (8) is arranged inside the sheath (1) in the running direction of said strip (2) directly in front of the vacuum chamber (8), whereby the underpressure in the second vacuum chamber is greater than the underpressure in the first vacuum chamber (8) and is independent thereof. The upstream second vacuum chamber (8) enables the separating layer of air adhering to the strip (2) to be suctioned in a targeted manner, whereby the contact surface of the strip (2)/roller remains large enough to transmit high drawing forces.

IPC 1-7

B65H 20/12; **F16C 13/00**

IPC 8 full level

B65H 20/12 (2006.01); **F16C 13/00** (2006.01)

CPC (source: EP US)

B65H 20/12 (2013.01 - EP US)

Citation (search report)

See references of WO 0023366A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

US 6585139 B1 20030701; AT E221847 T1 20020815; CA 2343908 A1 20000427; DE 19847799 A1 20000420; DE 59902294 D1 20020912; EP 1121317 A1 20010808; EP 1121317 B1 20020807; ES 2182572 T3 20030301; JP 2002527320 A 20020827; NO 20011651 D0 20010402; NO 20011651 L 20010402; WO 0023366 A1 20000427

DOCDB simple family (application)

US 80733601 A 20010411; AT 99948837 T 19990923; CA 2343908 A 19990923; DE 19847799 A 19981016; DE 59902294 T 19990923; EP 9907075 W 19990923; EP 99948837 A 19990923; ES 99948837 T 19990923; JP 2000577105 A 19990923; NO 20011651 A 20010402