Title (en)

Press roller

Title (de)

Presswalze

Title (fr)

Rouleau compresseur

Publication

EP 1882775 A1 20080130 (DE)

Application

EP 07107697 A 20070508

Priority

DE 102006034043 A 20060724

Abstract (en)

Following the wiper component (2) in the direction of rotation, a cooling lubricant is applied to the inside of the roller casing (1). Spacing between the wiper and lubricant application, is preferably 0.2 - 10 mm. A drain line (4) connected to the wiper, leads lubricant out and away from the pressure roller. This line (4) is connected to a source of reduced pressure. Both the lubricant drain line (4) and lubricant supply line (5) are connected to the wiper. Wiper(s) extend along more than 50%, 75%, or 90% of the roller casing length. Minimum clearance between the wiper and the roller casing internal surface, is less than 1 mm. They may make contact. The wiper is fastened to a carrier, to be pressed against the inside of the roller casing. The wiper (2) has an overflow leading a fraction of the lubricant into the internal section of the roller casing following the wiper. It alternatively has no overflow. Drained lubricant is re-processed, especially by filtration (6) and cooling (7); it is then recycled to the roller. The quantity and/or temperature of the lubricant supplied (8), is controlled as a function of the temperature of the drained lubricant.

Abstract (de)

Die Erfindung betrifft eine Presswalze einer Maschine zur Herstellung und/oder Veredlung einer Papier-, Karton-, Tissue- oder einer anderen Faserstoffbahn mit einem rotierenden, zylindrischen Walzenmantel (1), welcher sich auf zumindest einem Stützelement eines stationären Trägers (9) abstützt, wobei die mit der Innenseite des Walzenmantels (1) in Kontakt kommende Lauffläche des Stützelementes mit einem flüssigen Schmiermittel geschmiert wird und das Schmiermittel von der Innenseite des Walzenmantels (1) mit Hilfe wenigstens eines Abstreifelementes (2) abgestreift wird. Dabei soll die Schmierung dadurch verbessert werden, dass in Rotationsrichtung nach dem Abstreifelement (2) kühleres Schmiermittel auf die Innenseite des Walzenmantels (1) aufgebracht wird.

IPC 8 full level

D21G 1/02 (2006.01); **D21F 3/02** (2006.01)

CPC (source: EP)

D21G 1/0213 (2013.01); **D21G 1/022** (2013.01)

Citation (search report)

- [X] DE 19703966 A1 19980806 - VOITH SULZER PAPIERMASCH GMBH [DE]
- [X] EP 1561959 A1 20050810 - MITSUBISHI HEAVY IND LTD [JP]
- [X] DE 19903843 C1 20000706 - VOITH SULZER PAPIERTECH PATENT [DE]

Designated contracting state (EPC)

AT DE FI IT

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1882775 A1 20080130; **EP 1882775 B1 20110817**; AT 520823 T 20110915; DE 102006034043 A1 20080131

DOCDB simple family (application)

EP 07107697 A 20070508; AT 07107697 T 20070508; DE 102006034043 A 20060724