

Title (en)
Device for treating a web

Title (de)
Vorrichtung zur Behandlung einer Materialbahn

Title (fr)
Dispositif pour le traitement d'une bande

Publication
EP 1026315 A3 20010307 (DE)

Application
EP 99125855 A 19991224

Priority
DE 19904373 A 19990203

Abstract (en)
[origin: EP1026315A2] The assembly to process a web, and especially of paper, has a rotating heated cylinder (1) where the web (2) passes round it pressed against the cylinder mantle by a continuous belt (5) of an elastic material, and especially rubber. A guide roller (8) for the belt (5) is on a fixed carrier (11) which swings between a tensioning setting for the belt (5) and a retracted position. An additional belt tensioner roller (18) is outside the belt (5), on a second fixed carrier (16) which swings between a retracted position and a setting where it presses externally against the belt (5) between the belt guide roller (8) and a neighboring belt guide roller (6). The belt guide rollers (6-8) are on a common carrier (11). The tensioning roller (18) is at a linkage on a cross beam (16) at the frame. The tensioning roller (18) also acts as a belt movement path control roller. The tensioning roller (18) is on a swing arm (17), which moves between the retracted setting and the belt tensioning position. The roller (18) swings on the arm (17), and especially round an axis (VII), to control the belt tension. The tensioning roller (18) faces the swing guide roller (8) on the side of the belt (5) away from the cylinder (1). Of the belt guide rollers (6-8), two rollers (6,7) are at the same level at a gap over the cylinder (1), and the third roller (8) is a swing roller at a lower level near the cylinder (1). The moving roller (8) is at the side towards the cylinder (1) in the tensioning setting, and near the fixed carrier (11) in the retracted position. A cylinder (13) is within the belt (5) loop with a belt press rod (14) which, in operation, presses the belt (5) against the cylinder (1), supported at the first carrier (11). At least one coolant spray tube (21) has jets to spray a coolant fluid on the belt (5), to one side and over the belt (5). The belt (5) moves at a speed so that at the contact line between the belt (5) and the cylinder (1) the speed difference is 10-30% to the web movement speed.

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D21F 7/00; **D21H 25/00**

IPC 8 full level
D21F 7/00 (2006.01); **D21H 25/00** (2006.01)

CPC (source: EP US)
D21F 7/001 (2013.01 - EP US); **D21H 25/005** (2013.01 - EP US)

Citation (search report)
• [A] GB 875903 A 19610823 - CLUPAK INC
• [A] FR 2145879 A5 19730223 - NEYRPIC

Cited by
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EP 1026315 A2 20000809; **EP 1026315 A3 20010307**; **EP 1026315 B1 20040804**; AT E272742 T1 20040815; DE 19904373 A1 20000810; DE 59910126 D1 20040909; US 6365003 B1 20020402

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