

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 A2 20000809 (DE)

Application
EP 99125855 A 19991224

Priority
DE 19904373 A 19990203

Abstract (en)
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.

Abstract (de)
Vorrichtung zur Behandlung einer Materialbahn (2), insbesondere einer Papierbahn, mit einem vorzugsweise beheizbaren, um seine Längsachse (II) rotierbaren Zylinder (1), über welchen die Materialbahn (2) geführt ist, einem im Betrieb an dem Zylinder (1) anliegenden und gleichsinnig mit diesem um eine zur Zylinderachse (II) parallele Achse umlaufenden, endlosen Band (5) aus elastischem Material, insbesondere Gummi, welches mindestens drei Bandleitwalzen (6, 7, 8) umschließt und von diesen geführt ist, von denen mindestens eine Bandleitwalze (8) zur Aufspannung des Bandes (5) beweglich gelagert ist, wobei zur Erleichterung des Bandwechsels eine der innerhalb des Bandes (5) vorgesehenen Bandleitwalzen (8) an einem festen Träger (11) zwischen einer das Band (5) aufspannenden und einer zurückgezogenen Stellung schwenkbar angelenkt ist und wobei außerhalb des Bandes (5) zusätzlich eine Spannwalze (18) vorgesehen ist, die an einem zweiten festen Träger (16) zwischen einer zurückgezogenen Stellung und einer das Band (5) zwischen der schwenkbaren Bandleitwalze (8) und einer dieser benachbarten Bandleitwalze (6) von außen belastenden Stellung schwenkbar angelenkt ist. <IMAGE>

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