

Title (en)

Process for controlling the radial separation between two rotary tools and device for carrying out the process

Title (de)

Verfahren und Vorrichtung zur Einstellung des radialen Abstands zwischen zwei rotierenden Werkzeugen

Title (fr)

Procédé pour régler l'intervalle radial entre deux outils rotatifs et station de traitement pour la mise en oeuvre du procédé

Publication

EP 0764505 A1 19970326 (FR)

Application

EP 96114941 A 19960918

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CH 268395 A 19950922

Abstract (en)

Method of precisely controlling the radial spacing between two rolls (2,4) of a treatment station for sheet or bands of material such as paper, cardboard or plastic, where the rolls ends are fitted with running bands (13,14,15,16) consists of: (i) firstly bringing the bands into contact to define a 1st distance between the rolls; (ii) assuring that internal by means of adjustable spacers (10,11) acting between the upper part of the lower (5,5a) half shells and the lower part of the upper (3,3a) half shells supporting the roll bearings; (iii) exerting an elastic deformation strain on the roll bands (13,14,15,16) through traction bars (17) on the half shells (3,3a, 5,5a) to force them together to assure a 2nd spacing between the rolls. Then, during working, the heat transfer in the length of each roll (2,4) in acting on the temp. of the bearings (80,81,82,83), is controlled so as to compensate the dimensional variations of the roll dia.. The bearings are individually fed with lubricating and cooling fluid from a fluid temp. control unit. Pref. the tensioning units consist of a traction bar (17) of which one end is threaded (18) and engages in the machined upper face of the lower half shell (5). The other threaded end (21) has a nut (23) to press a sleeve (24) against a pad (25) on the upper half shell.

Abstract (fr)

La station de traitement rotatif d'une matière en bande ou en feuille comprend des outils cylindriques (2, 4), comportant des bandes de roulement (13, 14, 15, 16), dont les paliers sont montés dans des demi coquilles supérieures (3, 3a) et inférieures (5, 5a). Les demi coquilles supérieures (3, 3a) et les demi coquilles inférieures (5, 5a) sont reliées entre elles au moyen de tirants (8, 8a, 9, 9a) et de cales réglables (10, 10a, 11, 11a). Les paliers sont individuellement contrôlés et alimentés en fluide de lubrification par un dispositif de conditionnement thermique dudit fluide. <IMAGE>

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B26D 7/10 (2013.01); **B26D 7/2628** (2013.01); **B26D 7/265** (2013.01)

Citation (search report)

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