

Title (en)
Device, method and arrangement for pressing two parallel-axis, mutually drawable rollers in a device for producing and/or treating a web of material

Title (de)
Vorrichtung, Verfahren und Anordnung zum Andrücken zweier aneinander annäherbarer achsparalleler Walzen in einer Einrichtung zur Herstellung oder/und Behandlung einer Materialbahn

Title (fr)
Dispositif, procédé et système destinés à comprimer deux cylindres d'axes parallèles pouvant être rapprochés l'un de l'autre dans une installation de fabrication et/ou de traitement d'une bande de matériau

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Application
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Abstract (en)
[origin: WO02095126A2] The invention relates to a device for mutually pressing two rollers (14, 16) against each other in a painting facility. Said device comprises force generating means (26) and sensor means (36) for detecting the pressure force between the rollers (14, 16). According to the invention, the sensor means (36) are arranged outside the bodies of the two rollers (14, 16). The invention also relates to a method for adjusting the pressure of the rollers (14, 16) against each other, wherein at least one of the rollers (14, 16) has a radially elastic roller cover (128, 130). According to the invention, a distance-force characteristic is determined for the roller pair (14, 16). In order to achieve a desired pressing force of the rollers (14, 16) against each other when the device is operating, a corresponding set value of axial distance (e) is determined from the distance-force characteristic and regulated in the roller pair (14, 16).

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Citation (search report)

- [X] US 2691326 A 19541012 - MCARN THEODORE A
- [X] US 4191341 A 19800304 - LOOSER GOTTLIEB [CH]
- [X] US 5611500 A 19970318 - SMITH PHILIP W [US]
- [X] US 2729003 A 19560103 - SAMUEL COHN, et al
- [A] EP 0502237 A1 19920909 - SUDO NORITO [JP], et al
- [A] DE 3627463 A1 19880218 - SMG STAHLKONTOR MASCHINENBAU G [DE]
- [A] US 5462594 A 19951031 - RANTANEN RAUNO [FI]
- [A] US 5562027 A 19961008 - MOORE ROBERT H [US]
- [DA] EP 0978589 A2 20000209 - VOITH SULZER PAPIERTECH PATENT [DE]

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