

Title (en)

Roll drive end and method for mounting a drive device to a drive shaft

Title (de)

Walzenantriebsende und Verfahren zur Montage einer Antriebsvorrichtung an einem Antriebszapfen

Title (fr)

L'extrémité d'entraînement de rouleau et procédé de montage d'un dispositif d'entraînement sur un arbre d'entraînement

Publication

EP 1873306 A2 20080102 (DE)

Application

EP 07107592 A 20070507

Priority

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Abstract (en)

The roller drive end for production and/or treatment of paper- or cardboard web, comprises roll shell (1), drive journal (2) that is attached at the roll shell for propelling the same, a drive device, and a drive flange (7) for torque proof connection of the drive journal. The drive journal is connected with the drive device in a drive connection and is adjustable. The drive flange is intended in the drive device. The drive flange is pressed-on and/or shrunk-on on the drive journal. The drive device is pivotably mounted on a torque support (12) using the drive flange. The roller drive end for production and/or treatment of paper- or cardboard web, comprises roll shell (1), drive journal (2) that is attached at the roll shell for propelling the same, a drive device, and a drive flange (7) for torque proof connection of the drive journal. The drive journal is connected with the drive device in a drive connection and is adjustable. The drive flange is intended in the drive device. The drive flange is pressed-on and/or shrunk-on on the drive journal. The drive device is pivotably mounted on a torque support (12) using the drive flange. A drive power-transferring, friction-conclusive connection between the joining areas of the driving flange and the drive journal is formed by a tight fit. A stator (10) is secured against twist and is free of supporting- and/or bearing position. The drive flange is connected at the drive journal via the tight fit. In the region of the axially outer side of the drive journal an intermediate flange is screwed on the front side of the drive flange. The rotor is screwed on the front side of the intermediate flange. The drive journal is rotatably mounted on a roller bearing, tapered roller bearing, pendulum roller bearing or toroidal roller bearing. The drive flange starts at the axially outer front side of the drive journal in direction of the bearing and encloses radially within a circumferential direction, so that the drive journal is indirectly pivoted via the drive flange in the bearing. The drive flange locks conclusively on the axially internal side of the bearing or conclusively with the bearing. An independent claim is included for a method for the assembly of drive device.

Abstract (de)

Die Erfindung betrifft ein Antriebsende einer Walze zur Herstellung und/oder Behandlung einer Materialbahn, insbesondere Papier- oder Kartonbahn, - mit einem Walzenmantel (1); - mit einem Antriebszapfen (2), der an dem Walzenmantel (1) zum Antreiben desselben angeschlossen ist; wobei - der Antriebszapfen (2) in einer Triebverbindung mit einer Antriebsvorrichtung (3) steht oder in eine solche schaltbar ist; und - ein Antriebsflansch (7) zum drehfesten Verbinden des Antriebszapfens (2) und der Antriebsvorrichtung (3) vorgesehen ist. Die Erfindung ist dadurch gekennzeichnet, dass der Antriebsflansch (7) derart auf den Antriebszapfen (2) aufgepresst und/oder aufgeschraubt ist, dass eine antriebsleistungsübertragende, reibschlüssige Verbindung zwischen den Fügeflächen des Antriebsflansches (7) und des Antriebszapfens (2) durch eine Presspassung ausgebildet ist.

IPC 8 full level

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CPC (source: EP US)

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