

Title (en)

Calender for web materials like paper

Title (de)

Kalender für bahnförmige Materialien wie Papier

Title (fr)

Calandre pour des matériaux en bande comme le papier

Publication

EP 1026316 A2 20000809 (DE)

Application

EP 00100896 A 20000118

Priority

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Abstract (en)

The calender assembly to process web materials, such as of paper, has at least one center roller (7,9,11) for a roller separation in relation to an adjacent roller, which can be moved laterally and at right angles to the plane (13) of the roller stack (4). The lower roller (12) can be lowered in the stack (4) along the roller plane (13), for roller separation, and the lowest center roller (11) can be moved laterally. The bottom roller (12) has a controlled bending action, and the lowering movement is restricted to the mantle stroke limit. The plane (13) of the calender rollers is pitched at an angle to the horizontal, and at least one of the center rollers (7,9,11) with a lateral movement is shifted at a downwards angle out of the roller plane (13), through the action of a hydrocylinder (32-34). The bearing mountings (16,22,28) of at least one center roller (7,9,11) with a lateral shift movement are carried by levers (18,23,29), on pivot axes (20,24,30) at the columns (1). The hydrocylinders (32-34) move the bearing mountings in relation to the levers or the levers in relation to the pivot axes (20,24,30) or the pivot axes in relation to the columns. The bearing mountings are moved through swivel joints at the levers. At least one movable center roller (9,11) is a hard roller. The upper roller (5) is a controlled bending roller with a mantle stroke movement and a carrier (14) fixed to the columns. The uppermost center roller (6) is in a fixed mounting at the columns. At least one center roller (7-11) is carried by levers (18,23,26,29), which pivot on axes (20,21,24,27,30) at the columns (1), with limit stops to prevent a lowering movement of the center rollers (7-11). The bottom center roller (11) and the lower roller (12) have a lateral shifting movement to form a single working nip where the other roller nips are open.

Abstract (de)

Ein Kalender für bahnförmige Materialien, wie Papier, besitzt einen Ständer (1) und einen Walzenstapel (4), der eine Unterwalze (12), eine Oberwalze (5) und mindestens eine dazwischen angeordnete Mittelwalze (6 bis 11) aufweist. Mindestens eine Mittelwalze (9, 11) ist zwecks Walzentrennung relativ zur Nachbarwalze in einer etwa senkrecht zur Stapelebene (13) verlaufenden Querrichtung verlagerbar. Auf diese Weise ergibt sich eine rasche Walzentrennung, weil der größte Teil der Trennvorgänge gleichzeitig erfolgt. Außerdem erhält man für eine gegebene Anzahl von Walzen im Stapel eine geringe Bauhöhe. <IMAGE>

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