

## Title (en)

Calender for treating a paper web

## Title (de)

Kalender für die Behandlung einer Papierbahn

## Title (fr)

Calandre pour le traitement d'une bande de papier

## Publication

**EP 0732443 B2 20040526 (DE)**

## Application

**EP 96103275 A 19960304**

## Priority

DE 19508352 A 19950309

## Abstract (en)

[origin: EP0732443A1] A calender for processing a paper web comprises a stack of alternately hard and soft rolls, with working nips formed between the pairs of rolls. The arrangement is such that one side of the paper and then the other comes into contact with the hard rolls. Either the stack comprises six to eight rolls (2-9) and includes two adjacent soft rolls (4, 5) which form a change-over nip (12), or two similar stacks having four or five rolls each are employed. The soft rolls have a plastic jacket whose recovery characteristics ensure that, if, e.g. a particle with a thickness of up to 1mm passes through the nip, the resultant permanent deformation in the roll has a depth of not more than 5% of the thickness of the particle. Pref. the plastic jacket, which consists of a fibre-reinforced epoxy resin, is designed for a nip pressure in excess of 42 N/mm<sup>2</sup>, and the permanent deformation after passing a 1mm particle is less than 0.04 mm. The uppermost and/or the lowest rolls can be controllably flexed, and at least one of the rolls adjoining a working nip can be heated to more than 100 degrees C.

## IPC 1-7

**D21G 1/00**; **D21G 1/02**

## IPC 8 full level

**D21G 1/00** (2006.01); **D21G 1/02** (2006.01)

## CPC (source: EP US)

**D21G 1/00** (2013.01 - EP US); **D21G 1/0233** (2013.01 - EP US)

## Citation (opposition)

## Opponent :

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## Designated contracting state (EPC)

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