

CPC**COOPERATIVE PATENT CLASSIFICATION****D21G****CALENDERS; ACCESSORIES FOR PAPER-MAKING MACHINES**

(winders or rewinders for finished products, means for adjustment of wrinkles or lateral extensions [B65H](#))

D21G 1/00

Calenders (if restricted to the treatment of particular materials see the relevant class, e.g. [B29C 43/24](#), [D06](#)); **Smoothing apparatus**

D21G 1/0006

. {Driving arrangements}

D21G 1/0013

.. {for controlled deflection rolls}

D21G 1/002

. {Opening or closing mechanisms; Regulating the pressure}

D21G 1/0026

.. {Arrangements for maintaining uniform nip conditions}

D21G 1/0033

... {by offsetting the roll axes horizontally}

D21G 1/004

.. {Regulating the pressure}

D21G 1/0046

... {depending on the measured properties of the calendered web}

D21G 1/0053

... {using magnetic forces}

D21G 1/006

. { with extended nips}

D21G 1/0066

. { using a special calendering belt}

D21G 1/0073

. {Accessories for calenders}

D21G 1/008

.. {Vibration-preventing or -eliminating devices}

D21G 1/0086

.. {Web feeding or guiding devices}

D21G 1/0093

.. {Web conditioning devices}

D21G 1/02

. Rolls; Their bearings (in general [F16C 13/00](#))

D21G 1/0206

.. {Controlled deflection rolls}

D21G 1/0213

... {with deflection compensation means acting between the roller shell and its supporting member}

D21G 1/022

.... {the means using fluid pressure}

D21G 1/0226

.. {Bearings}

D21G 1/0233

.. {Soft rolls}

D21G 1/024

... {formed from a plurality of compacted disc elements or from a spirally-wound band}

D21G 1/0246

.. {Hard rolls}

D21G 1/0253

.. {Heating or cooling the rolls; Regulating the temperature}

D21G 1/026

... {using the hydraulic fluid in controlled deflection rolls}

D21G 1/0266

... {using a heat-transfer fluid ([D21G 1/026](#) takes precedence)}

D21G 1/0273

.... {on the exterior surface of the rolls}

D21G 1/028

... {using electrical means}

- D21G 1/0286 . . . {Regulating the axial or circumferential temperature profile of the roll}
- D21G 1/0293 . . {Provisions or constructions to facilitate the removal of the rolls}

D21G 3/00 Doctors

- D21G 3/005 . {Doctor knives}
- D21G 3/02 . for calenders
- D21G 3/04 . for drying cylinders

D21G 5/00 Safety devices

- D21G 5/005 . {for calenders}

D21G 7/00 Damping devices

D21G 9/00 Other accessories for paper-making machines

- D21G 9/0009 . {Paper-making control systems}
- D21G 9/0018 . . { controlling the stock preparation}
- D21G 9/0027 . . { controlling the forming section}
- D21G 9/0036 . . { controlling the press or drying section}
- D21G 9/0045 . . { controlling the calendering or finishing}
- D21G 9/0054 . . { details of algorithms or programs}
- D21G 9/0063 . {Devices for threading a web tail through a paper-making machine}
- D21G 9/0072 . . { using at least one rope}
- D21G 9/0081 . {Apparatus for removing samples from travelling web material}
- D21G 9/009 . {Apparatus for glaze-coating paper webs}