

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}