

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}