

**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 }