

Title (en)

METHOD AND DEVICE FOR CALENDERING PAPER, COMPRISING A HEATABLE ROLL

Title (de)

VERFAHREN UND VORRICHTUNG ZUM KALANDRIEREN VON PAPIER MIT EINER BEHEIZTEN WALZE

Title (fr)

PROCEDE DE CALANDRAGE DE PAPIER ET DISPOSITIF CORRESPONDANT COMPRENANT UN ROULEAU CHAUFFABLE

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Application

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Priority

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Abstract (en)

[origin: WO0161107A1] A method and a device for calendering paper in a calender which comprises at least one calender unit (10; 110) in which a first calendering nip (N1; N3) is formed between a heatable calender roll (16; 116) and an extended-nip roll (12; 112), which nip is an extended nip, through which a paper web (W) is guided to run in order to calender the paper on at least one side. In the calender unit (10; 110), a second calendering nip (N2; N4) is formed with the heatable calender roll (16; 116) and a third calender roll (17; 117), which nip is a roll nip, and the paper web (W) is guided to run through said roll nip (N2; N4) such that, in both calendering nips (N1, N3; N2, N4), the same side of the paper web (W) is in contact with the heatable calender roll (16; 116).

IPC 8 full level

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CPC (source: EP)

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Citation (opposition)

Opponent :

- DE 4322876 A1 19931118 - VOITH GMBH J M [DE]
- DE 19715345 A1 19981001 - VOITH SULZER PAPIERMASCH GMBH [DE]
- US 4332191 A 19820601 - KANKAANPAA MATTI
- EP 0732446 A1 19960918 - VOITH SULZER FINISHING GMBH [DE]
- TUOMISTO M.: "VALMETs Visionen fuer das Kalandrieren", WOCHENBLATT FUER PAPIERFABRIKATION, no. 4, 1999, pages 248 - 253
- WIKSTROEM M. ET AL: "Calendering of coated paper and board in an extended soft nip", NORDIC PULP AND PAPER RESEARCH JOURNAL, vol. 12, no. 4, 1997, pages 289 - 298
- MARLEAUX H.-P.: "Von Matt bis Hochglanz-Praxiserfahrung mit On-/Off-line-Softkalandern fuer gestrichene Papiere", WOCHENBLATT FUER PAPIERFABRIKATION, PTS-STREICHEREI SYMPOSIUM, 1993, pages 154 - 159
- TANI M.: "OptiDwell - Der Breitnippkalandrer", VALMET INFORMIERT PAPIERHERSTELLER, 1999, pages 18 - 21
- TURTINEN P.; TANI M.: "Valmet Corp. Calenders "OptiDwell - The new bulk preserving calendering method", PITA ANNUAL CONFERENCE, SESSION 2, PAPER 5, 1998, pages 55 - 59
- KUOSA H.: "Calendering concepts for printing grades", VALMET PM DAYS 96, 1996, pages 105 - 112
- "OPTIGLOSS for high-gloss grades", VALMET PAPER MACHINERY

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