

Title (en)
Heat setting of fabrics

Title (de)
Thermische Fixierung von Textilbahnen

Title (fr)
Fixage thermique des étoffes textiles

Publication
EP 0974693 A1 20000126 (EN)

Application
EP 99305504 A 19990712

Priority
GB 9815965 A 19980723

Abstract (en)
A woven or spiral link papermaking fabric (1) is passed through an oven (11) wherein at least one side is subjected to microwave radiation from a microwave radiation emitting device (13) which is powered by a magnetron (14) which is adapted to operate at a frequency of from 100MHz to 300GHz with impedance mismatch and frequency offset between the magnetron (14) and emitting device (13) being controlled to prevent a thermal runaway. The fabric may be of microwave absorbent fibres or yarns or of fibres or yarns including a microwave absorbent additive such as titania.
<IMAGE>

IPC 1-7
D06C 7/02; **D21F 1/00**

IPC 8 full level
D06C 7/02 (2006.01); **D21F 1/00** (2006.01)

CPC (source: EP)
D06C 7/02 (2013.01); **D06M 10/003** (2013.01); **D21F 1/00** (2013.01)

Citation (applicant)
• US 5312523 A 19940517 - ERIKSEN GUNNAR [NO], et al
• US 4504345 A 19850312 - HAINES ROBERT C [GB], et al
• US 4495714 A 19850129 - ERIKSEN GUENNAR [NO]
• US 5546643 A 19960820 - HAWES JOHN M [US], et al

Citation (search report)
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• [DA] US 4495714 A 19850129 - ERIKSEN GUENNAR [NO]
• [X] DATABASE WPI Section Ch Week 8619, Derwent World Patents Index; Class F07, AN 1986-123340, XP002119161
• [X] PATENT ABSTRACTS OF JAPAN vol. 13, no. 504 (C - 653) 13 November 1989 (1989-11-13)

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