Title (en)

Method for sizing a sheet of yarns and sizing device

Title (de)

Verfahren zum Schlichten einer Fadenschar und Schlichtevorrichtung

Title (fr)

Procédé pour l'encollage d'une nappe de fils et dispositif d'encollage

Publication

EP 1041185 A3 20010411 (DE)

Application

EP 00102005 A 20000202

Priority

DE 19914285 A 19990330

Abstract (en)

[origin: EP1041185A2] To size a band of yarns, they are saturated with a wetting agent in an initial stage at a temp. of 65-95 degrees C and mangl to remove surplus liquid. In a second stage they are soaked with a size at a temp. of 65-95 degrees C using a contact surface (41) heated indirectly to a temp. of 100-160 degrees C. The temp. of the wetting agent in the first stage is set 5-10 degrees C higher than the size temp. in the second stage. An Independent claim is included for a sizing assembly where the cooling of the band of yarns (1) between the two process stages is limited to max. 10 degrees C. Preferred Features: The residual moisture level at the first stage is 25-60%. The size trough (23) an indirect heating with a flat contact surface (41) forming all or part of the base (24) of the size trough (23). The indirect heating is a steam pressure hot plate (38). A compact structure reduces to a min. the length of the free stretch (48) in the yar path between the final roller (14) of the wetting stage (9) and the first roller (25) of the sizing stage (10). The free path stretch (48) has a cover (49) with a heater (50). The wetting (9) and sizing (10) stages are within a common housing (53).

IPC 1-7

D06B 1/14; D06B 3/18

IPC 8 full level

D06B 1/14 (2006.01); **D06B 3/18** (2006.01); **D06B 23/22** (2006.01)

CPC (source: EP US)

D06B 1/145 (2013.01 - EP US); **D06B 3/18** (2013.01 - EP US); **D06B 23/22** (2013.01 - EP US)

Citation (search report)

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- [YA] DE 3716165 A1 19871203 - IRA L GRIFFIN SONS INC [US]
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Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 1041185 A2 20001004; **EP 1041185 A3 20010411**; **EP 1041185 B1 20040526**; DE 19914285 A1 20001005; DE 19914285 B4 20040415; DE 50006551 D1 20040701; ES 2222119 T3 20050201; US 6395041 B1 20020528

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