

Title (en)

METHOD OF, AND APPARATUS FOR, REDUCING THE LIQUID CONTENT OF AIR-PERMEABLE MATERIAL IN TUBULAR FORM

Publication

EP 0014787 B1 19840125 (EN)

Application

EP 79300253 A 19790220

Priority

EP 79300253 A 19790220

Abstract (en)

[origin: EP0014787A1] A method of reducing the liquid content of air-permeable material in tubular form, especially for reducing the moisture content of tubular fabric, involves moving the tube of material longitudinally through a device for applying suction to the outer surface of the tube either in a single area which extends all round the tube or in a plurality of areas which together extend substantially all round the tube. Means for carrying the method into effect may comprise a pair of hollow members 17, 18 defining a frame to surround the tube 10 of material from which liquid is to be removed. Each of the hollow members 17, 18 has apertures 7 in its inwardly-facing wall or walls each of which communicates with the hollow interior of the respective hollow member. Means is provided for creating a sub-atmospheric pressure in each of the members 17, 18, for example tubes 19 connected to the members and connectible to a source of vacuum (not shown). Preferably, the apertures 7 are in the form of elongate slots having a length considerably greater than their width, and the axis of each slot is inclined at an angle of from 5 to 10 degrees to the direction of advance, indicated by the arrow B, of the tubular fabric. The position of the hollow member 18 between the limbs 17a, 17b, of the member 17 is adjustable in order to vary the cross-sectional area of the window opening of the frame defined by the hollow members. The suction extraction means may be combined with hot air drying apparatus disposed downstream of the suction applying means and/or with squeeze rollers disposed upstream of the suction applying means.

IPC 1-7

F26B 13/30

IPC 8 full level

D06C 5/00 (2006.01); **F26B 13/30** (2006.01)

CPC (source: EP)

D06C 5/00 (2013.01); **F26B 13/30** (2013.01)

Cited by

DE102004022452A1; DE102004022452B4; DE102004040956B3; EP0136889A3; GB2148472A; DE10112045A1; DE19828206A1; DE19828206C2; US6550113B2; WO9937845A1; WO2009074144A1

Designated contracting state (EPC)

CH DE FR IT

DOCDB simple family (publication)

EP 0014787 A1 19800903; **EP 0014787 B1 19840125**; DE 2966566 D1 19840301

DOCDB simple family (application)

EP 79300253 A 19790220; DE 2966566 T 19790220