

Title (en)

METHOD AND APPARATUS FOR PRODUCTION OF CARBURIZED FIBRES

Title (de)

VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG VON KARBURIERTEN FASERN

Title (fr)

PROCEDE ET DISPOSITIF DE PRODUCTION DE FIBRES CARBUREES

Publication

EP 1030942 A1 20000830 (EN)

Application

EP 98960119 A 19981218

Priority

- PL 9800048 W 19981218
- PL 32854798 A 19980912

Abstract (en)

[origin: WO0015895A1] The method for production of carburized fibres in the thermal bonding process of powdered active carbon with thermoplastic fibres relies on the fact that the fibres are mechanically guided in the form of a cable (1) and spread with an active carbon, next in the stretch state they are introduced into suitable high temperature operation which plastifies fibres and causes melting of the carbon into their structure. Next they are taken out of the area of high temperature operation and introduced into the crimping process. The cable of fibres with crimped active carbon taken out from the area of high temperature operation, before the crimping process, is additionally heated up and next mechanically burnished for durability increment of the bonding between the carbon and the fibre structure. The apparatus equipped with a chamber (4) for active carbon spreading with a feeder (5) and the heater (7), has the set of shafts (6) widening the fibres cable (1), which is situated between the chamber and the heater, behind which there is a head (10) used for fibres crimping together with the set of squeezing-receiving shafts (9). The apparatus has additional heater (8) situated behind the heater.

IPC 1-7

D06M 23/08; **D06M 11/74**

IPC 8 full level

D06M 11/74 (2006.01); **D06M 23/08** (2006.01)

CPC (source: EP)

D06M 11/74 (2013.01); **D06M 23/08** (2013.01)

Citation (search report)

See references of WO 0015895A1

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI

DOCDB simple family (publication)

WO 0015895 A1 20000323; EP 1030942 A1 20000830; PL 187338 B1 20040630; PL 328547 A1 19990719

DOCDB simple family (application)

PL 9800048 W 19981218; EP 98960119 A 19981218; PL 32854798 A 19980912