

Title (en)

Apparatus for the heat treatment of a textile web

Title (de)

Vorrichtung zur Wärmebehandlung einer textilen Warenbahn

Title (fr)

Dispositif pour le traitement thermique d'une bande de textile

Publication

EP 0933607 A1 19990804 (DE)

Application

EP 99100941 A 19990120

Priority

DE 19803676 A 19980130

Abstract (en)

The heating stage of a stenter, to dry the stretched fabrics, has hollow tubular carriers (18) for the guide rails (4a) and fabric movement systems (3a) over at least part of their length. Their interiors also form a feed channel (18a) for the gas guide units (19) carried by it for the fabric edge heating system (17). The gas guide units (19), for the fabric edge heating system (17), extends maximum 15-20% of the treatment length of the assembly. The gas guide units (19), are generally only in the initial treatment field, in the direction (2) of fabric travel. At least one flexible gas supply line (23) is at each gas feed channel (18a) at the hollow carrier (18), linked to the gas supply point at the pressure side of a recirculating fan. The pressure side of each recirculating fan is connected to the jet boxes by pressure lines. The flexible gas supply line (23) leads from the pressure side of the fan or as a branch from the pressure line, and is preferably fitted with a control flap (24) to set the air vol. flow. The flexible gas supply line (23) is connected to at least one jet box under the fabric (WB), at the wall away from the fabric edge, or at the end section of the jet box near the hollow carrier (18), and at the initial section of the jet box in the housing. The flexible gas line can also be connected to the inlet lock of the recirculation system for the lower jet box. Each gas guide unit is a flat gas distributor box (19), along the direction (2) of fabric travel between the guide rail (4a) towards the longitudinal edges (5a) of the fabric and the jet box. The rear side (19a) of the distributor (19), away from the fabric edge, has an open flow connection with the gas feed channel (18a) at the hollow carrier (18) over its whole length. The blower openings (22) of the distributor box (19) are continuous or interrupted jet slits, or separate jets in at least one row. A fabric edge treatment unit (17) is at each fabric transport system (3a), with a gas distribution box (19) over and/or under the fabric movement plane, as a dedicated fabric edge drying system (17).

Abstract (de)

Die Erfindung betrifft eine Wärmebehandlungsvorrichtung (1) einer textilen Warenbahnen (WB), die in breitgespanntem Zustand mittels endlos umlaufender Transportorgane (3a,3b) durch die Vorrichtung transportiert wird, wobei auf die Warenbahn Behandlungsgas von oberhalb und/oder unterhalb angeordneten Gaszuführkästen (8,9) aufgeblasen und auf die Warenbahn-Längskanten gesondert zugeführtes Behandlungsgas über Gasleitelemente (19) von Kantenbehandlungseinrichtungen (17) eingeblasen wird. Eine besonders einfache und raumsparende Ausführung und Anordnung dieser Kantenbehandlungseinrichtungen (17) ergibt sich dadurch, daß Träger (18) für die Führungsschienen (4a,4b) der Transportorgane wenigstens zum Teil als rohrförmige Hohlträger (18) ausgeführt sind und gleichzeitig Gaszuführkanäle für die ebenfalls von ihnen getragenen Gasleitelemente (19) bilden. <IMAGE>

IPC 1-7

F26B 13/10

IPC 8 full level

F26B 13/00 (2006.01); **F26B 13/12** (2006.01)

CPC (source: EP)

F26B 13/007 (2013.01); **F26B 13/12** (2013.01)

Citation (search report)

- [DA] DE 19525545 C1 19960926 - BABCOCK TEXTILMASCH [DE]
- [DA] DE 3706615 A1 19880908 - BABCOCK TEXTILMASCH [DE]
- [DA] DE 8111908 U1 19810924

Cited by

CN111551006A; WO2014195926A1

Designated contracting state (EPC)

AT CH DE ES FR GB IT LI

DOCDB simple family (publication)

EP 0933607 A1 19990804; DE 19803676 A1 19990805

DOCDB simple family (application)

EP 99100941 A 19990120; DE 19803676 A 19980130