

Title (en)

Stretcher for thermal treatment of sheet-like materials in the width.

Title (de)

Spannmaschine zur Wärmebehandlung von breitgeführten Warenbahnen.

Title (fr)

Rame pour le traitement thermique de matières en bandes en largeur.

Publication

EP 0292657 A2 19881130 (DE)

Application

EP 88103817 A 19880310

Priority

DE 3717774 A 19870526

Abstract (en)

[origin: EP0292657B1] 1. Tensioning machine for the heat treatment of lengths of material which are guided widthways, in particular lengths of textile material, containing a) a material inlet zone (3), a plurality of heat treatment zones (4 to 6) and a material outlet zone (7), all the zones being arranged in succession in the longitudinal direction of the tensioning machine (1), b) two tensioning chains (8, 9) which run continuously in the longitudinal direction of the tensioning machine through all the zones and are an oblique distance apart and on chain links (10) which are flexibly connected to one another bearing holding elements (11) for gripping the two long edges of the lengths of material (2) to be treated, c) chain guide rails (12, 13) to support and guide the advancing and returning strands of the two tensioning chains, d) cooling air blowing arrangements (14, 15) which are associated with long sections of the chain guide rails at least in the region of the returning strand of the tensioning chain, characterised in that e) the cooling air blowing arrangements (14, 15) which are only arranged approximately on the length of the long sections of the chain guide rails (12, 13) which run inside the heat treatment zones (4, 5, 6), are constructed in such a way that these long sections of the chain guide rails are each enclosed at least in their outer regions (e.g. 13a) constructed for the returning strands of the tensioning chain in a sheet metal channel (16, 17) serving as a cooling air guide channel, and these channels also extend in the transverse direction at least above the chain guide rails (12, 13) and thus have an open connection to the interior of the pertaining heat treatment zones so that used cooling air is introduced into the heat treatment zones through the inner regions (e.g. 13b) of the chain guide rails (12, 13) associated with the advancing strands of the tensioning chain (e.g. 9a).

Abstract (de)

Die Spannmaschine dient zur Wärmebehandlung von breitgeführten Warenbahnen, insbesondere textilen Warenbahnen. Zwei Spannketten (8, 9) transportieren die Warenbahnen in üblicher Weise durch ein Einlaßfeld (3), mehrere Wärmebehandlungsfelder (4, 5, 6) und ein Auslaßfeld (7), wobei die vor- und rücklaufenden Spannkettentrums in Kettenführungsschienen abgestützt und geführt werden. Um die Spannketten sehr wirkungsvoll kühlen und dadurch die verwendeten Hochtemperaturfette in ihrer Lebensdauer erheblich verlängern zu können, sind den innerhalb der Wärmebehandlungsfelder verlaufenden Längsabschnitten der Kettenführungsschienen Kühlluft-Aufblaseeinrichtungen zugeordnet, von denen die verbrauchte Kühlluft als vorgewärmte Frischluft in die Wärmebehandlungsfelder einführbar sind.

IPC 1-7

D06C 3/02

IPC 8 full level

D06C 3/02 (2006.01); **F26B 13/02** (2006.01)

CPC (source: EP US)

D06C 3/02 (2013.01 - EP US)

Designated contracting state (EPC)

AT DE FR GB IT

DOCDB simple family (publication)

EP 0292657 A2 19881130; **EP 0292657 A3 19890222**; **EP 0292657 B1 19900523**; AT E53079 T1 19900615; DE 3717774 A1 19881208; DE 3860171 D1 19900628; US 4899427 A 19900213

DOCDB simple family (application)

EP 88103817 A 19880310; AT 88103817 T 19880310; DE 3717774 A 19870526; DE 3860171 T 19880310; US 17098488 A 19880321