

Title (en)

Apparatus for the continuous heat treatment, e.g. drying, of webs or ribbons of textile material.

Title (de)

Vorrichtung zum kontinuierlichen Wärmebehandeln wie Trocknen von bahn- oder bandförmigem Textilgut.

Title (fr)

Dispositif pour le traitement en continu par la chaleur, par exemple le séchage, de matière textile en bande ou ruban.

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Application

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Priority

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Abstract (en)

1. Apparatus for the continuous thermal treatment, such as drying, of web-like or strip-like textile material (11), having a housing (1) and two rows of rollers (9, 10) which are disposed therein and around which rollers the textile material (11) is conducted through the apparatus in a meander-like manner to form material loops, and having a longitudinal wall (2), which divides a ventilator chamber (3) in the apparatus, a ventilator (6) which circulates the treatment medium being disposed on the ventilator chamber side of the longitudinal wall, and a suction chamber (4) which extends over the entire length of a treatment compartment being associated with the ventilator suction pipe (7) on the other side of the longitudinal wall, wherein suction boxes (13) are disposed in the treatment chamber (5), which communicates with the suction chamber (4) and is provided with the two rows of rollers (9, 10), the suction boxes extending over the width of the treatment chamber (5) at one end of the individual material loops and being partially open at the side facing the rollers (9, 10), and each end-face aperture facing the suction chamber (4) coincides with an aperture in a separation wall (8) which extends over the whole length and height of the housing (1) and forms the suction chamber (4) with upper and lower boundary walls, together with the longitudinal wall (2), characterised in that substantially the whole height between the upper and lower rows of rollers (9, 10) and each region between an upwardly and downwardly travelling end section of a material loop is provided with an air conduction box (12) which occupies the substantial internal width between the end section and is provided, on the one hand, with outlet apertures (22) and, on the other hand, with suction apertures (24), the air conduction box being longitudinally divided over the working width, approximately in the middle of the height, into the suction box (13) and into a pressure box (18).

Abstract (de)

Die Erfindung umfaßt eine Hotflue bekannter Konstruktion. Die Luftzu- und Abführung erfolgt jetzt nur durch zwischen den Laufscllaufen angeordnete Luftführungskästen, die etwa in der Mitte der Höhe durch eine Wandung in einen Saugkasten und einen Druckkasten unterteilt sind. Der Luftführungskasten erstreckt sich jeweils über die Höhe zwischen der oberen und der unteren Reihe der Umlenkwalzen und nimmt auch den größten Teil der lichten Breite zwischen den auf- und ablaufenden Trüms der Warenbahn ein. Aufgrund dieser optimalen Abmaße des Luftführungskastens wird bei hoher Luftströmung eine reine Parallelströmung entlang der Warenbahnlängsrichtung erzielt.

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