

Title (en)

APPARATUS FOR THE CONTINUOUS HEAT TREATMENT, E.G. DRYING, OF WEBS OR RIBBONS OF TEXTILE MATERIAL

Publication

EP 0130579 B1 19880706 (DE)

Application

EP 84107497 A 19840628

Priority

- DE 3323827 A 19830701
- DE 3327064 A 19830727

Abstract (en)

[origin: EP0130579A2] 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).

IPC 1-7

F26B 13/10; **F26B 13/08**; **D06C 7/00**

IPC 8 full level

D06C 7/00 (2006.01); **F26B 13/08** (2006.01); **F26B 13/10** (2006.01); **F26B 21/04** (2006.01)

CPC (source: EP)

F26B 13/08 (2013.01); **F26B 13/10** (2013.01); **F26B 21/04** (2013.01)

Cited by

CN105659044A; CN115540554A; KR101252141B1; CN113623988A; CN110360824A; EP3165861A1; WO2011079867A1; JP2013516590A

Designated contracting state (EPC)

BE DE FR GB IT NL

DOCDB simple family (publication)

EP 0130579 A2 19850109; **EP 0130579 A3 19851113**; **EP 0130579 B1 19880706**; DE 3472586 D1 19880811

DOCDB simple family (application)

EP 84107497 A 19840628; DE 3472586 T 19840628