

Title (en)

Steam chamber, particularly in a steaming device for textile fabrics

Title (de)

Dampfraum, insbesondere in einem Dämpfer für textile Warenbahnen

Title (fr)

Chambre de vaporisation, notamment dans un dispositif pour le vaporisation des étoffes textiles

Publication

EP 1020556 A2 20000719 (DE)

Application

EP 99123405 A 19991124

Priority

DE 19900748 A 19990112

Abstract (en)

The assembly to steam fabric piecegoods has a system to determine the saturation level of the steam for use in the enclosed steaming zone (16). The steam saturation rate is established by the volume of fluid condensed from the steam in a given time span at a solid surface with a surface temperature below the evaporation point. A measurement unit (10) is calibrated before the steamer is operated, with the various steam saturation rates. An Independent claim is included for a textile fabric steamer with a measurement unit (10) to determine the saturation rate of the steam used for the steaming process in the steaming zone (16). Preferred Features: A solid body is in the steaming zone (16), with a surface temperature maintained below the steam evaporation point, for the steam to condense into droplets. The solid body is maintained at a constant temperature by a fluid carried in a pipe system (17) of a material with good thermal conductivity. The condensed droplets are caught by a funnel (30) with a catch cross section (19) matching the outline (27) of the unit. The pipes (17) within the outline are as coils, or in a serpentine structure and the like. The funnel (30) opens into a condensation collection channel (28), leading out through the wall (15) of the steaming zone (16) into a measurement station (29) where the volume of caught condensed fluid is measured.

Abstract (de)

Bei einem Dämpfer (100) für die Behandlung textiler Warenbahnen (1) wird der Sättigungsgrad des in dem Dampfraum (16) vorhandenen Dampfes bestimmt, indem die in einer Zeiteinheit an einem in dem Dampfraum (16) angebrachten, auf einer konstanten unterhalb der Verdampfungstemperatur gelegenen Temperatur gehaltenen Festkörper (20) kondensierende Flüssigkeitsmenge gemessen wird (Fig. 2). <IMAGE>

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