

Title (en)
Autoclave.

Title (de)
Autoklav.

Title (fr)
Autoclave.

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Application
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Abstract (en)
Apparatus consisting of one single horizontal autoclave (1) simply rested on the floor without requiring masonry work for its installation. The autoclave (1) is designed to accommodate one or more material-holders which can be introduced and extracted by means of trolleys and which have rectangular base. Said material-holders (2) can support means such as vertical rods (6) arranged along straight rows with minimum dead spaces, in the case of yarn cheeses. When working with tops, tows, beams, staple or other type of textile material, the support means are different from the rods and they are of suitable shapes but still arranged as indicated above for the yarn cheeses. Autoclave (1) is of circular section and is provided inside with two side partitions (5) for holding the dye liquor which can overflow from the top by means of appropriate overflow fittings, in the event of thermal expansion or excess liquor. Normally, the space not occupied by the liquor whether at the sides or at the top, is filled with compressed air so as to accomplish static pressurization of the apparatus. The apparatus in accordance with the invention makes it possible to have an appreciably lower bath ratio (that is, the ratio between the weight of the liquor contained and the weight of the goods to be treated) compared to those possible with the usual apparatus already known in the art, with consequent considerable savings of heating and electrical power as well as, therefore, lowering of running costs. In addition to the autoclave (1) which forms the essential part of the apparatus, the apparatus is also of course completed with a motor-driven pump (3) and relative diverting valve (7) for circulating the process liquor and a heat exchanger (4) for heating and cooling said liquor, these latter devices being already known in the art and indispensable for apparatus of such kind.

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CPC (source: EP)
D06B 5/16 (2013.01)

Citation (search report)
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