

Title (en)

Method and device for dyeing textile materials

Title (de)

Verfahren und Vorrichtung zum Färben von textilen Materialien

Title (fr)

Procédé et dispositif pour la teinture des matières textiles

Publication

EP 1164214 A2 20011219 (DE)

Application

EP 01111716 A 20010514

Priority

DE 10029780 A 20000616

Abstract (en)

To dye textile materials the dyestuff is applied in a dyeing autoclave (7), where a portion of the dyestuff is pumped from the autoclave through a circuit (5) with an additional vessel (2) where it dwells for reaction chemicals to be added. The chemicals are added in dosages on entering the outflow (3) from the vessel, so that they are carried out by the dyestuff outflow. In the dyeing process of textile materials, the solid reaction chemicals are dissolved by the reaction with the dyestuff. The volume contained in the additional vessel is 1-10% of the volume held in the dyeing autoclave. The dyeing autoclave is held at a static pressure of at least 1 bar. An Independent claim is included for the container for dosing chemicals into the dyestuff flow with a feed channel, where its upper end can be accessed outside the vessel. The lower end of the feed channel is at the outflow opening (3) from the vessel. Preferred Features: The gap between the lower end of the feed channel and the vessel outflow is 1-10 mm and preferably about 25% of the outflow diameter, and it is adjustable. The outflow diameter is smaller than the diameter of the feed channel, at 15-25 mm and preferably 20 mm. At least one beating plate is fitted at the lower end of the feed channel, and the lower end of the channel is covered by a sieve mesh. The feed channel is vertically upright within the additional vessel, or it is pitched at an angle. The additional vessel has a diameter of at least 1.5 times the diameter of the feed channel. Spray rings are at the upper edge of the additional vessel and/or the feed channel, with openings towards the vessel walls or to the feed channel.

Abstract (de)

Verfahren und Vorrichtung zum Färben von textilen Materialien, wobei der Färbereaktion in einem Färbekessel (7) über eine Bypass-Leitung (5) Reaktionschemikalien, wie insbesondere Salz zur Linearisierung der Färbereaktion, zugeführt werden. Die Zugabe der Chemikalien findet dabei in einem Zusatzbehälter (2) statt, welcher in dem Bypass (5) angeordnet ist. Erfindungsgemäß befindet sich mittig in diesem Zusatzbehälter (2) ein Zufuhrkanal (1), dessen unteres Ende im Einzugsbereich des Abflusses (3) des Zusatzbehälters (2) liegt, so daß alle in den Zufuhrkanal (1) eingegebenen Chemikalien unmittelbar den Zusatzbehälter (2) über den Abfluß (3) verlassen und dem Färbekessel (7) zugeführt werden. <IMAGE>

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