

Title (en)

Laboratory padding machine and method for determining the result of dyeing a fabric in a dye bath

Title (de)

Laborfoulard sowie Verfahren zur Ermittlung des Farbausfalls einer mittels einer Färbeflotte gefärbten Warenbahn

Title (fr)

Foulard de laboratoire et procédé pour déterminer le résultat de teinture d'un tissu dans un bain de teinture

Publication

EP 1422332 A2 20040526 (DE)

Application

EP 03022796 A 20031011

Priority

DE 10254587 A 20021122

Abstract (en)

A fabric test sample (B) is fed from an unwinding station (9) through a dye bath (33) and squeeze rollers (26, 27) to a wind-up (10). Injectors (34, 35) top up the bath with dye liquor during the dyeing process according to the volume of dye liquor in the bath (33) as determined by sensors, e.g. by a liquid column. The injectors are actuated by pneumatic pistons and the fabric tension and squeeze roller pressure is adjustable. An Independent claim is also included for the process of dye uptake testing in which the sample is fed continuously through the bath while keeping the liquor volume in the bath constant. The sample is then wound up and the shade compared with the desired color. The processing conditions are set to simulate those encountered on the production machine. The sample is sufficiently long to take up at least one and a half times the bath volume and it has non-absorbent end strips, e.g. of polymer film. After winding up, the sample is sealed from atmospheric influences while any reactions take place.

Abstract (de)

Die Erfindung betrifft einen Laborfoulard zur Durchführung von Färbeversuchen an einer laufenden Warenbahn, mit einem Foulardvolumen (33) für die Färbeflotte, mit einer Abwickelstation (9), mit einer Aufwickelstation (10), und mit Mitteln zum Führen der Warenbahn durch das Foulardvolumen (33), wobei eine Nachdosiereinrichtung (39) vorgesehen ist, mittels welcher Färbeflotte während des Durchlaufens der Bahn (B) durch das Foulardvolumen (33) nachfüllbar ist, sowie ein Verfahren zur Durchführung mittels Laborfoulards. <IMAGE>

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CPC (source: EP)

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Cited by

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