

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 A3 20050608 (DE)

Application

EP 03022796 A 20031011

Priority

DE 10254587 A 20021122

Abstract (en)

[origin: EP1422332A2] 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.

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D06B 23/10; **D06B 23/26**

IPC 8 full level

D06B 23/10 (2006.01); **D06B 23/26** (2006.01)

CPC (source: EP)

D06B 23/10 (2013.01); **D06B 23/26** (2013.01); **D06B 3/18** (2013.01)

Citation (search report)

- [A] GB 1447856 A 19760902 - DUCKWORTH C
- [A] US 5374006 A 19941220 - MHEIDLE MICKAEL [FR]
- [A] US 4829791 A 19890516 - TISCHBEIN CLAUS [DE]
- [A] DE 3137596 A1 19820609 - SANDO IRON WORKS CO [JP]
- [A] CH 359423 A 19620115 - BENZ ERNST [CH]
- [A] US 4449476 A 19840522 - VOSWINCKEL GERHARD [DE], et al
- [A] DE 2628986 A1 19770428 - SANDOZ AG
- [A] CH 558212 A 19750131 - ARTOS IND FORSCH
- [A] DE 1078527 B 19600331 - HAAS FRIEDRICH MASCHF
- [A] DATABASE WPI Section Ch Week 198751, Derwent World Patents Index; Class F06, AN 1987-359908, XP002323388

Cited by

CN103556418A; CN104278466A; CN103498313A; CN113174719A; WO2006027362A3

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