

Title (en)

Rotating-drum machine for dyeing textile articles

Title (de)

Maschine mit rotierender Trommel zum Färben von Textilartikeln

Title (fr)

Machine à tambour rotatif pour la teinture des articles textiles

Publication

EP 1577432 A2 20050921 (EN)

Application

EP 04077374 A 20040823

Priority

- IT PD20040034 A 20040211
- IT PD20040035 A 20040211

Abstract (en)

Rotating-drum dyeing machine (1) for treating textile articles (M), provided with a support frame (2) which supports a tank (3) and with a rotating drum (6) for receiving textile articles (M) to be treated, which is contained inside the tank (3) and is provided with a plurality of through-holes (11) formed on the side wall (7) for allowing the passage of a treatment fluid. Treatment means (50) for acting on the articles (M) with the treatment fluid are envisaged, said means (50) comprising one or more nozzles (51) which are operationally provided on the rear wall (9) and/or front wall (8) of the drum (6) and are able to produce a jet of fluid (60) extending along the longitudinal length of the drum (6) so as to reach the garments (M) distributed along the side wall (7). A source (80) of pressurised gaseous fluid is also provided, said source (80) being connected to the nozzle (51) in order to introduce a jet (60) composed of a treatment fluid in the liquid state and a fluid in the gaseous state. The nozzle (51) is supplied by means of a circulating system (14) connected to the tank (3) via a storage bath (12) arranged in a position remote from the rotating drum (6). In this way the storage bath (12) is not affected by the turbulence resulting from rotation of the drum (6) and is able to supply the nozzle (51) with a suitable flow. The bath ratio of the machine (1) is thus very low.

IPC 1-7

D06B 3/30; **D06B 5/26**

IPC 8 full level

D06B 3/30 (2006.01); **D06B 5/26** (2006.01)

CPC (source: EP)

D06B 1/02 (2013.01); **D06B 5/26** (2013.01); **D06B 3/30** (2013.01)

Citation (examination)

JP H09783 A 19970107 - SHARP KK

Citation (third parties)

Third party :

- JP H09783 A 19970107 - SHARP KK
- JP H09783 K1

Cited by

IT202100007826A1; CN115161926A; CN116219664A; EP3812497A1; CN112760868A; IT201900019436A1; WO2022039986A1

Designated contracting state (EPC)

ES IT TR

DOCDB simple family (publication)

EP 1577432 A2 20050921; **EP 1577432 A3 20061011**

DOCDB simple family (application)

EP 04077374 A 20040823