

Title (en)
ENERGY-SAVING DYEING MACHINE

Title (de)
ENERGIESPARENDE FÄRBEMASCHINE

Title (fr)
MACHINE DE TEINTURE À ÉCONOMIE D'ÉNERGIE

Publication
EP 3216906 A1 20170913 (EN)

Application
EP 16159750 A 20160310

Priority
EP 16159750 A 20160310

Abstract (en)
An energy-saving dyeing machine includes a body (10), a liquid dyes supply device (20), a liquid dyes heating device (30) having a direct-heating heat exchanger (31), and a cooling unit (70) connecting to the direct-heating heat exchanger (31) by a series connection. When heating up the liquid dyes (L), the liquid dyes (L) enters the direct-heating heat exchanger (31) from the liquid dyes supply device (20) via a supply tube (25), saving several heating procedures and unnecessary energy wastes. Additionally, an outer wall (15) is surrounding the body (10) to form a surrounding space (16) for the heated exhaust gas (G) from the direct-heating heat exchanger (31) to enter and reheat the liquid dyes (L) in the body (10) again, making a better use of the heat energy.

IPC 8 full level
D06B 3/28 (2006.01); **D06B 23/14** (2006.01); **D06B 23/22** (2006.01)

CPC (source: EP)
D06B 3/28 (2013.01); **D06B 23/22** (2013.01)

Citation (search report)

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CN110685085A

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

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