

Title (en)
Mixing machine for dyes and creams

Title (de)
Mischmaschine für Farbstoffe und Cremes

Title (fr)
Machine de mélange pour teintures et crèmes

Publication
EP 1093842 B1 20030507 (EN)

Application
EP 99500191 A 19991019

Priority
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Abstract (en)
[origin: EP1093842A1] The machine is foreseen for mixing dyes or creams for hair, or other cosmetic products or beauty products, including a pair of rotating drums (6-6'), both of which are equipped with a number of beakers (7) located on their periphery and vertically aligned, each one of which receives a cartridge containing a base product to be mixed. Furthermore, each drum has in its centre a shaft (11), conveniently motorised, that displaces vertically and in controlled fashion a nut (10) that, by means of a radial arm (12), acts on a cone (8) expelling the product through a lower nozzle (22), helped by a valve opening mechanism. A pincer (13) moves the recipient (12) receiver of the mixture towards one or other drum (6-6'), and a computer establishes the dose that should be administered from each one of the products contained in the beakers (12) to the recipient (12), where they are then stirred with the collaboration of a mixer (16). <IMAGE>

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Cited by
WO2009117797A1; US2018361334A1; CN110154628A; CN103432956A; FR2894701A1; EP2343692A1; CN103198570A; EP1639986A1; IT201800009326A1; CN104822288A; CN111315472A; EP2268387A4; JP2016026183A; CN112999956A; EP2165752A1; FR2998193A1; EP2783744A1; FR3031464A1; JPWO2019082886A1; CN111479487A; US10952562B2; CN107635431A; FR3057743A1; JP2020501847A; WO2006052863A1; WO2020176829A1; WO2019082886A1; WO03026458A3; WO2007110764A3; WO2021144293A1; CN108602032A; JP2019509768A; EP3383223A4; WO2020075208A1; WO2014080093A1; WO02083282A1; US11918964B2; WO2021170302A1; FR3107643A1; US11412835B2; US11654406B2; FR3094186A1; CN113573610A; JP2022525807A; JP2019533615A; FR3106054A1; EP3970846A1; US7963303B2; US9177339B2; US9524605B2; US9522112B2; US10596534B2; US11839676B2; JP2007319382A; JP2007319383A; US7410615B2; US8158083B2; US10328400B2; US9839278B2; US10182638B2; US10607269B2; US10893740B2; US11315159B2; WO2005044041A3; WO2020193530A1; WO2009114330A3; WO2004050226A1; WO2014037967A1; WO2019092081A1; WO03083349A1; WO2016200975A1; WO2018073541A1; US8393363B2; US8567455B2; US9623388B2; US9877569B2; US9919278B2; US10716386B2; US11375801B2; US8640432B2; US9567118B2; US10399715B2; US11246395B2; US9691213B2; US9984526B2; US10897979B1; US11344103B2; US11925251B2

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