

Title (en)

DEVICE FOR TREATING TEXTILES WITH A PHYSICAL PLASMA

Title (de)

VORRICHTUNG ZUM BEHANDELN VON TEXTILIEN MIT EINEM PHYSIKALISCHEN PLASMA

Title (fr)

DISPOSITIF DE TRAITEMENT DE TEXTILES AU MOYEN D'UN PLASMA PHYSIQUE

Publication

EP 3959946 A2 20220302 (DE)

Application

EP 20721171 A 20200416

Priority

- DE 102019110814 A 20190426
- EP 2020060744 W 20200416

Abstract (en)

[origin: WO2020216675A2] The invention relates to a device (1) for treating textiles (18) with a physical plasma (17), comprising two roller-type electrodes (2, 3) which are rotatably mounted about a respective roller axis (4, 5) and each of which has an electrically conductive core (6, 7) and a roller casing (8, 9) that surrounds the core (6, 7) and is made of a dielectricum, the roller casings (8, 9) of the electrodes lying opposite each other, and comprising an alternating high-voltage generator (12), the two outputs (13, 14) of which are connected to the electrically conductive cores (6, 7) of the two electrodes (2, 3) during the operation of the device (1) and which is designed to produce an alternating high voltage between the two electrodes (2, 3). According to the invention, the roller casing (8, 9) of at least one of the two electrodes (2, 3) is at least 2 mm thick and is made of an elastically deformable dielectric material (10), and the two electrodes (2, 3) are freely accessible in order to directly introduce the textiles (18) between the two electrodes (2, 3) during the operation of the device (1).

IPC 8 full level

H05H 1/24 (2006.01); **D06F 61/02** (2006.01); **D06M 10/02** (2006.01)

CPC (source: EP US)

D06F 61/02 (2013.01 - EP); **D06M 10/02** (2013.01 - EP); **H05H 1/2406** (2013.01 - US); **H05H 1/2431** (2021.05 - EP); **H05H 2242/24** (2021.05 - EP); **H05H 2245/36** (2021.05 - EP); **H05H 2245/40** (2021.05 - EP)

Citation (search report)

See references of WO 2020216675A2

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

DOCDB simple family (publication)

WO 2020216675 A2 20201029; **WO 2020216675 A3 20201217**; DE 102019110814 A1 20201029; EP 3959946 A2 20220302

DOCDB simple family (application)

EP 2020060744 W 20200416; DE 102019110814 A 20190426; EP 20721171 A 20200416