

Title (en)

METHOD FOR DEPOSITING A COATING ON A WIRE IN A MICROWAVE FIELD

Title (de)

VERFAHREN ZUR ABSCHIEDUNG EINER BESCHICHTUNG AUF EINEM DRAHT IN EINEM MIKROWELLENFELD

Title (fr)

PROCEDE DE DEPOT D'UN REVETEMENT SUR UN FIL SOUS CHAMP MICRO-ONDES

Publication

**EP 4200265 A1 20230628 (FR)**

Application

**EP 21759114 A 20210811**

Priority

- FR 2008605 A 20200821
- FR 2021051460 W 20210811

Abstract (en)

[origin: WO2022038324A1] The invention relates to a method for treating a carbon or ceramic wire (150) comprising at least forming a coating on the wire in a reaction zone (115) of a reactor (220) by heating a segment (156) of the wire in the presence of a gas phase in a microwave field, characterised in that the gas phase comprises a mixture of a diluent gas (200a; 200b) and a coating precursor in the vapour state, and in that the gas phase is formed at least by introducing the diluent gas into the reactor and mixing the introduced diluent gas with the coating precursor (140) in the reactor before the reaction zone.

IPC 8 full level

**C04B 35/628** (2006.01); **C04B 35/573** (2006.01); **C04B 35/80** (2006.01); **C23C 16/04** (2006.01); **C23C 16/32** (2006.01); **C23C 16/34** (2006.01); **C23C 16/448** (2006.01); **C23C 16/455** (2006.01); **C23C 16/46** (2006.01); **C23C 16/54** (2006.01); **C23C 16/56** (2006.01)

CPC (source: EP US)

**C04B 35/573** (2013.01 - EP); **C04B 35/62863** (2013.01 - EP US); **C04B 35/62868** (2013.01 - EP US); **C04B 35/62871** (2013.01 - EP); **C04B 35/62884** (2013.01 - EP US); **C04B 35/80** (2013.01 - EP US); **C23C 16/045** (2013.01 - EP US); **C23C 16/325** (2013.01 - EP US); **C23C 16/342** (2013.01 - EP US); **C23C 16/345** (2013.01 - EP US); **C23C 16/4481** (2013.01 - EP); **C23C 16/4482** (2013.01 - EP US); **C23C 16/4488** (2013.01 - EP); **C23C 16/45519** (2013.01 - EP); **C23C 16/46** (2013.01 - EP); **C23C 16/511** (2013.01 - US); **C23C 16/545** (2013.01 - EP US); **C23C 16/56** (2013.01 - EP US); **C04B 2235/3826** (2013.01 - US); **C04B 2235/386** (2013.01 - US); **C04B 2235/5244** (2013.01 - EP); **C04B 2235/5248** (2013.01 - EP US); **C04B 2235/5252** (2013.01 - US); **C04B 2235/614** (2013.01 - US)

Citation (search report)

See references of WO 2022038324A1

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**WO 2022038324 A1 20220224**; CN 115968361 A 20230414; EP 4200265 A1 20230628; FR 3113496 A1 20220225; US 11858859 B2 20240102; US 2023242453 A1 20230803

DOCDB simple family (application)

**FR 2021051460 W 20210811**; CN 202180051656 A 20210811; EP 21759114 A 20210811; FR 2008605 A 20200821; US 202118042174 A 20210811