

Title (en)

COOLING DEVICE FOR A SPRAYING NOZZLE OR SPRAYING NOZZLE ASSEMBLY WITH A COOLING DEVICE FOR THERMAL SPRAYING

Title (de)

KÜHLVORRICHTUNG FÜR EINE SPRITZDÜSE BZW. SPRITZDÜSENANORDNUNG MIT EINER KÜHLVORRICHTUNG FÜR DAS THERMISCHE SPRITZEN

Title (fr)

DISPOSITIF DE REFROIDISSEMENT POUR GICLEUR OU ARRANGEMENT DE GICLEUR MUNI D'UN DISPOSITIF DE REFROIDISSEMENT POUR LA PULVÉRISATION THERMIQUE

Publication

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Application

**EP 15707933 A 20150303**

Priority

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- EP 2015054404 W 20150303

Abstract (en)

[origin: WO2015139948A1] The invention relates to a cooling device for a spraying nozzle (12), in particular for cold gas spraying, and to a spraying nozzle assembly equipped with such a cooling device. The spraying nozzle (12) is surrounded by an enclosure (13) forming the cooling device, wherein it is provided according to the invention that a cooling line (19) within the enclosure forms a closed system which can be supplied with a cooling medium by way of an inlet (20) and an outlet (21). The cooling medium therefore advantageously does not come into contact with the spraying nozzle (12), which is inserted into a receiving opening in the enclosure by means of a loose fit (17). The closure may also advantageously taper conically towards the mouth (18) of the spraying nozzle (12), and therefore coatings can also be applied to difficultly accessible components by means of the spraying nozzle assembly (11) according to the invention.

IPC 8 full level

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CPC (source: EP US)

**B05B 7/1486** (2013.01 - EP US); **B05B 7/16** (2013.01 - EP US)

Citation (search report)

See references of WO 2015139948A1

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Designated extension state (EPC)

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DOCDB simple family (publication)

**WO 2015139948 A1 20150924**; CA 2943226 A1 20150924; CA 2943226 C 20221213; CN 106061621 A 20161026; CN 106061621 B 20190719; DE 102014205343 A1 20150924; DK 3102335 T3 20190826; EP 3102335 A1 20161214; EP 3102335 B1 20190612; US 10166558 B2 20190101; US 2017100732 A1 20170413

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