

Title (en)

DEVICE AND METHOD FOR WATER SPRAY QUENCHING

Title (de)

VORRICHTUNG UND VERFAHREN FÜR WASSERSPRÜH-ABSCHRECKUNG

Title (fr)

DISPOSITIF ET PROCÉDÉ DE TREMPÉ PAR PULVÉRISATION D'EAU

Publication

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Application

EP 21755366 A 20210707

Priority

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Abstract (en)

[origin: WO2022008599A1] The invention relates to a device for water spray quenching, comprising – a quenching chamber, designed and set up to receive metallic workpieces, with a batch volume V₀ of 0.045 to 3.5 m³; and – at least one atomiser, which is configured to atomise water in air or nitrogen and is fluidically connected to the quenching chamber; wherein the at least one atomiser and the device are designed and set up to generate a spray mist with a water content of 2.5 to 40 vol.% and a Sauter mean diameter of 20 to 2000 µm and also a spray mist flow through the batch volume V₀ of 0.05 to 25 m³/s.

IPC 8 full level

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