

Title (en)

Spray nozzle device, in particular for spraying a cast strand

Title (de)

Sprühdüseineinrichtung insbesondere zum Besprühen eines Gießstrangs

Title (fr)

Installation de pulvérisation, en particulier pour la pulvérisation d'un flux de coulée

Publication

EP 2698210 B1 20200101 (DE)

Application

EP 12005888 A 20120815

Priority

EP 12005888 A 20120815

Abstract (en)

[origin: EP2698210A1] Spray nozzle device comprises a mixing chamber (2) which acts as a diffuser and has a mixing body (1). The mixing chamber is provided with an air inlet (3), a water inlet (4), and a nozzle outlet (5) oriented approximately in alignment with the air inlet through which an air or water mixture exits. The air inlet comprises a region projecting in the mixing chamber, and at least one air outlet hole, which is perpendicular to the longitudinal axis of the mixing chamber. The water enters near the tip through at least one water outlet hole, which is oriented perpendicular to the longitudinal axis.

IPC 8 full level

B05B 7/04 (2006.01); **B05B 15/65** (2018.01); **B22D 11/124** (2006.01)

CPC (source: CN EP KR US)

B05B 7/0483 (2013.01 - CN EP KR US); **B05B 15/65** (2018.01 - KR); **B22D 11/124** (2013.01 - CN EP KR US); **B22D 11/1246** (2013.01 - EP US); **B22D 30/00** (2013.01 - EP US); **B05B 15/65** (2018.01 - CN EP US)

Cited by

EP4292716A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 2698210 A1 20140219; **EP 2698210 B1 20200101**; BR 112015003028 A2 20170704; CN 104520012 A 20150415; CN 104520012 B 20210330; KR 20150042208 A 20150420; RU 2015107120 A 20161010; US 10286446 B2 20190514; US 2015231694 A1 20150820; WO 2014026992 A2 20140220; WO 2014026992 A3 20140410

DOCDB simple family (application)

EP 12005888 A 20120815; BR 112015003028 A 20130813; CN 201380042934 A 20130813; EP 2013066923 W 20130813; KR 20157003906 A 20130813; RU 2015107120 A 20130813; US 201314620275 A 20130813