

## Title (en)

DOUBLE-JET COOLING DEVICE FOR SEMICONTINUOUS VERTICAL CASTING MOULD

## Title (de)

DOPPELDÜSEN-KÜHLVORRICHTUNG FÜR EINE SEMIKONTINUIERLICHE VERTIKALE GUSSFORM

## Title (fr)

DISPOSITIF DE REFROIDISSEMENT A DOUBLE JET POUR MOULE DE COULEE SEMI-CONTINUE VERTICALE

## Publication

**EP 2802427 B1 20161012 (FR)**

## Application

**EP 13706576 A 20130108**

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## Abstract (en)

[origin: WO2013104846A1] The subject of the invention is a direct cooling device for a mould for the semicontinuous vertical casting of slabs for rolling or ingots for extruding (3) that are progressively quenched with a double jet (jets 4 and 5), the first one at substantially 32° and the second substantially 22°, simultaneously, each jet delivering substantially the same flow rate and flow velocity from a single chamber (2) of liquid. Another subject of the invention is a method implementing said device, with or without a graphite insert (1) on the working faces and in combination with various configurations of false bottom.

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## Citation (opposition)

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## Designated contracting state (EPC)

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## DOCDB simple family (publication)

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ES 2610582 T3 20170428; HK 1201783 A1 20150911; HU E032686 T2 20171030; JP 2015503452 A 20150202; JP 6093374 B2 20170308; SI 2802427 T1 20170228; US 2014374052 A1 20141225; US 9630244 B2 20170425; WO 2013104846 A1 20130718

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