

Title (en)
DEVICE FOR COOLING STEEL STRANDS

Publication
EP 0062209 B1 19841128 (DE)

Application
EP 82102333 A 19820320

Priority
DE 3112673 A 19810331

Abstract (en)
[origin: JPS57177867A] PURPOSE:To abolish a spray water cooling method and to permit uniform cooling without generating thermal strains, etc. by performing the secondary cooling in continuous casting only with the rolls disposed densely with the internally cooled rolls. CONSTITUTION:A cast strand 6 is supported by supporting rolls 4 which are disposed in plurality by leaving slight intervals in a secondary cooling zone. The discharge ports for a cooling medium of said rolls 4 are connected to the heat radiating parts 27 of a cooler 26 via rotary joints 28. The supply ports for the cooling medium are connected to the low temp. parts 29 of the cooler 26 via rotary joints 25 and pumps 30. This cooler 26 is cooled by a cooling medium 31 of gas or liquid flowing into a jacket 32 by a countercurrent system in order to cool the cast strand 6. Here, the cooler 26 constitutes the 1st cooler between the parts 27 and the cooling medium flowed into the jacket 32, and constitutes the 2nd cooler between the parts 29 and the medium 31.

IPC 1-7
B22D 11/124; **B22D 11/12**; **B22D 11/16**

IPC 8 full level
B22D 11/12 (2006.01); **B22D 11/124** (2006.01); **B22D 11/128** (2006.01); **B22D 11/16** (2006.01); **B22D 11/22** (2006.01)

CPC (source: EP US)
B22D 11/124 (2013.01 - EP US); **B22D 11/1287** (2013.01 - EP US); **B22D 11/225** (2013.01 - EP US)

Cited by
CN1093836C

Designated contracting state (EPC)
AT FR GB IT

DOCDB simple family (publication)
EP 0062209 A1 19821013; **EP 0062209 B1 19841128**; AT E10450 T1 19841215; DE 3112673 A1 19821028; DE 3112673 C2 19830105; JP S57177867 A 19821101; US 4452298 A 19840605

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