

Title (en)
DEVICE FOR COOLING A CAST STRAND DURING CONTINUOUS CASTING

Publication
EP 0062606 B1 19850206 (DE)

Application
EP 82810127 A 19820319

Priority
CH 224581 A 19810402

Abstract (en)
[origin: US4572280A] The cooling of a continuously cast ingot as it emerges from the mold, during casting, is carried out by applying coolant directly to the ingot around its circumference. In order to reduce the extent of doming, which occurs to the ingot base when cooling is too strong, the coolant is applied, at least at the start of the drop, to zones via streams of coolant. The process can be realized in practice particularly simply with an electromagnetic continuous casting mold which has a cooling device featuring a nozzle, with a ring shaped opening for liquid coolant, directed at the surface of the ingot. A deflecting sheet with turret shaped tongues separated by openings is provided projecting into the path of the coolant emerging from the ring shaped gap. The deflecting sheet is positioned parallel to the main ingot axis and can be moved parallel to that axis.

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B22D 11/124

IPC 8 full level
B22D 11/04 (2006.01); **B22D 11/01** (2006.01); **B22D 11/049** (2006.01); **B22D 11/124** (2006.01)

CPC (source: EP US)
B22D 11/015 (2013.01 - EP US); **B22D 11/049** (2013.01 - EP US); **B22D 11/124** (2013.01 - EP US)

Cited by
EP0337769A3; EP0119981A1; EP0533133A1; US5452756A; EP0592360A1; CH688129A5; WO9425202A1

Designated contracting state (EPC)
CH DE FR GB IT LI NL SE

DOCDB simple family (publication)
EP 0062606 A1 19821013; **EP 0062606 B1 19850206**; CA 1207511 A 19860715; DE 3262189 D1 19850321; JP H0436772 B2 19920617; JP S57177854 A 19821101; NO 157770 B 19880208; NO 157770 C 19880518; NO 821082 L 19821004; US 4572280 A 19860225; ZA 821828 B 19830223

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EP 82810127 A 19820319; CA 399647 A 19820329; DE 3262189 T 19820319; JP 5522182 A 19820402; NO 821082 A 19820331; US 60848784 A 19840509; ZA 821828 A 19820318