

Title (en)

Process for continuous casting of metals using a hot top, and method used therefor

Title (de)

Stranggiessverfahren mit Kokillen-Aufsatz und Kokille zur Anwendung

Title (fr)

Procédé de coulée continue en charge des métaux et lingotière pour sa mise en oeuvre

Publication

EP 0620062 B1 19980603 (FR)

Application

EP 94470007 A 19940328

Priority

FR 9303871 A 19930330

Abstract (en)

[origin: EP0620062A1] The (ingot) mould according to the invention is provided with a thermo-insulating hot top (2) made from rigid refractory material implanted on the tube element made from chilled copper (1) and means (8, 18, 12, 12, 13, 10) are provided for injecting, through the wall, a pressurised gas which emerges in the casting space 3 in the form of annular jets (streams) which cut through any solidification skin (crust) already formed by the cast metal (4) in contact with the refractory hot top (2). The invention makes it possible to distance the meniscus (7) from the solidification front of the cast metal in the copper element by eliminating the risks of incipient solidification between the two. <IMAGE>

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IPC 8 full level

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Cited by

KR100734793B1; US6102100A; FR2787359A1; EP1120180A1; FR2764533A1; CN1086613C; FR2747059A1; EP0743114A1; FR2734186A1; US5682942A; FR2766394A1; US6311762B1; FR2765126A1; US6016940A; FR2747062A1; US6050324A; US2011100582A1; US9561539B2; FR2747063A1; US6109335A; EP1097762A1; FR2800654A1; FR2747060A1; US6318449B1; WO2013021221A2; US6354363B1; WO9856521A1; WO0037197A1; WO9904918A1; US6419004B1; US6260605B1; WO9737793A1; WO9737794A1; WO9737795A1; WO9737792A1; KR100449675B1

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