

Title (en)
ELECTROMAGNETIC STIRRING APPARATUS

Publication
EP 0058048 B1 19850213 (EN)

Application
EP 82300550 A 19820203

Priority
US 23158981 A 19810205

Abstract (en)
[origin: EP0058048A1] Winding 16 of electromagnetic stirring apparatus surround a longitudinal chamber and are so connected and energised in use as to create a magnetic field rotating about the axis of the chamber. The windings 16 are arranged around a magnetic core 15 with portions extending outside of the core and portions extending inside the core, the windings being arranged in pairs cyclically, disposed about the chamber 10. The windings of a pair are located opposite each other across the chamber with the extents of the windings inside the core carrying simultaneous current in the opposite sense on opposite sides of the chamber. The core 15 and the winding 16 preferably have a long extent parallel to the axis of the chamber and a short extent radial thereto. The core 15 preferably extends in a complete magnetic circuit around the chamber. The chamber 10 may be a mould for continuous casting of steel, the steel being stirred in the molten state as it passes longitudinally along the mould.

IPC 1-7
B22D 11/10; **B22D 27/02**; **H05B 6/34**

IPC 8 full level
B01F 13/08 (2006.01); **B22D 11/10** (2006.01); **B22D 11/115** (2006.01); **H05B 6/34** (2006.01)

CPC (source: EP)
B22D 11/115 (2013.01); **H05B 6/34** (2013.01); **H05B 2213/02** (2013.01)

Citation (examination)
EP 0036302 A1 19810923 - CO STEEL INT [CA]

Cited by
DE3608711A1; FR2578767A1

Designated contracting state (EPC)
DE FR GB IT SE

DOCDB simple family (publication)
EP 0058048 A1 19820818; **EP 0058048 B1 19850213**; CA 1169226 A 19840619; DE 3262243 D1 19850328; JP S57146457 A 19820909

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EP 82300550 A 19820203; CA 394922 A 19820126; DE 3262243 T 19820203; JP 1504982 A 19820203