

Title (en)
APPARATUS FOR MEASURING THE LEVEL OF THE MOLTEN METAL IN A VESSEL, ESPECIALLY IN A CONTINUOUS-CASTING MOULD

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EP 0192043 B1 19890322 (FR)

Application
EP 86100498 A 19860116

Priority
LU 85754 A 19850201

Abstract (en)
[origin: EP0192043A1] 1. Apparatus for measuring the level of molten metal (M) in a vessel, especially a continuous casting mould (K), by sensing the secondary electromagnetic fields emanating from the liquid metal, the apparatus comprising a primary coil (P, P2, P4) creating a time varying electromagnetic field, two secondary measurement coils (S, S2, S'2; S4, S'4) extending along substantially the entire height of the primary coil and positioned on the opposed sides of the primary coil and means for delivering the difference of the signals sensed by the secondary measurement coils, characterized in that at least one of the coils (P; P2; P4; S, S'; S2, S'2; S4, S'4) is subdivided into at least two superimposed stages (40, 41, 42, 43, 44) having different magnetic properties and in that at least on stage of the secondary measurement coils (S, S2, S4) includes at its ends connections for relaying the calibrating signals.

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CPC (source: EP)
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Cited by
US5232043A; US5103893A; GB2229274A; GB2229274B; WO2007085481A1; US8018227B2

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