

Title (en)

Process for locating the concentration of elements in a cast strand and device for carrying out said process

Title (de)

Verfahren zur Lokalisierung von Elementkonzentrationen in einem Gussstrang und Anordnung zur Durchführung des Verfahrens

Title (fr)

Procédé de localisation de la concentration d'éléments dans une barre coulée et dispositif pour la mise en oeuvre de ce procédé

Publication

EP 0988908 B1 20040407 (DE)

Application

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Priority

DE 19843290 A 19980922

Abstract (en)

[origin: US6411379B1] In order to localize element concentrations in the edge areas of a horizontally manufactured continuous casting of alloyed non-ferrous metals, a longitudinal section is removed from the continuous casting. At least one strip of surface layer is then removed transversely by a metal removal unit from the longitudinal section forming a test specimen having a defined thickness. A point-by-point spectroanalysis of the metal composition is then carried out in linear sequence with the aid of a spectral-analysis head in the longitudinal direction of the strip. The element concentration determined in this manner is displayed numerically and/or graphically with the aid of a computer. The metal-removal unit and the spectral-analysis head are placed under the influence of a metal-removal and analysis control unit which is coupled to the computer via a programmable controller and via a spectrometer, respectively.

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US 6411379 B1 20020625; AT E263645 T1 20040415; CN 1191899 C 20050309; CN 1248502 A 20000329; DE 19843290 A1 20000323; DE 59909095 D1 20040513; DK 0988908 T3 20040809; EP 0988908 A1 20000329; EP 0988908 B1 20040407; ES 2218920 T3 20041116; HK 1025279 A1 20001110; HU 223998 B1 20050428; HU 9903204 D0 19991129; HU P9903204 A2 20011228; HU P9903204 A3 20020228; KR 100681803 B1 20070215; KR 20000023337 A 20000425; PL 190825 B1 20060228; PL 335540 A1 20000327; PT 988908 E 20040831; TW 424020 B 20010301

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