

Title (en)

Method and apparatus for electric current supply of pots for electrolytic production of metals, particularly aluminium.

Title (de)

Verfahren und Vorrichtung zur Stromzufuhr für Ofen zur elektrolytischen Metallherstellung, insbesondere von Aluminium.

Title (fr)

Procédé et dispositif pour l'alimentation en courant électrique de cuves pour la production électrolytique de métaux, spécialement d'aluminium.

Publication

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Application

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Priority

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- IT 1915582 A 19820118

Abstract (en)

Method and relevant apparatus for the electric current supply to pots for the electrolytic production of metals, particularly aluminum, arranged in side-by-side or end-to-end relationship and electrically connected in series, consisting in carrying most of the electric current in the circuit of said series of pots by means of conductors all having the same cross-section and being always combined, in the individual circuit sections, in couples of the same length, all said couples of conductors being furthermore symmetrically positioned with respect to the transverse median vertical plane and or to the longitudinal median vertical plane of the single pots in the series. By the present invention, and in compliance with the objects thereof, a high compensation and the total symmetrization (with respect to the vertical median planes) of the components of the induction magnetic field in the single pots of the series and, by consequence, the minimization and the total symmetrization of the effects of the magnetic forces operating in the molten areas of said pots are achieved.

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