

Title (en)
SERVICE MACHINE USED FOR INTERVENTION ON ELECTROLYSIS CELLS FOR PRODUCING ALUMINIUM BY IGNEOUS ELECTROLYSIS

Title (de)
SERVICEMASCHINE ZUM EINGRIFF AN ELEKTROLYSEZELLEN ZUR HERSTELLUNG VON ALUMINIUM DURCH SCHMELZFLUSSELEKTROLYSE

Title (fr)
MACHINE DE SERVICE UTILISEE POUR INTERVENIR SUR LES CELLULES D' ELECTROLYSE DE PRODUCTION D'ALUMINIUM PAR ELECTROLYSE IGNEE

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Abstract (en)
[origin: WO2010031919A1] The invention relates to a service machine (3) for a series of electrolysis cells (2) for the production of aluminium by igneous electrolysis, which includes: a) a bridge crane (4) capable of translation above said electrolysis cells; a tool-bearing carriage (6) on which is attached a service module including tools (10); c) a casting winch (13) connected to said bridge crane and for gripping and positioning near the cell (2) a casting assembly including a ladle (40), a casting tube (41) and a pressure reduction device; and an independent device (50, 50') capable of generating pressurised air. The machine is characterised in that the pressurised air generating device includes a first compressor (50) capable of supplying a pressurised air flow at least equal to the minimum air flow required for operations other than casting, and at least a second compressor (50') arranged so that, when operating simultaneously with the first compressor, the assembly supplies a pressurised air flow at least equal to the minimum air flow required for casting.

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