

Title (en)

HANDLING DEVICE FOR HOODS OF A CELL FOR ELECTROLYTIC ALUMINIUM PRODUCTION

Title (de)

HANDHABUNGSVORRICHTUNG FÜR HAUBEN EINER ZELLE ZUR ELEKTROLYTISCHEN HERSTELLUNG VON ALUMINIUM

Title (fr)

DISPOSITIF DE MANUTENTION DES CAPOTS D'UNE CELLULE DE PRODUCTION D'ALUMINIUM PAR ELECTROLYSE

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Application

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Abstract (en)

[origin: WO2006067324A2] The invention relates to a device (100) for handling the hoods (33) of a cell for producing aluminium by fused bath electrolysis comprising a positioning device (110) and a hood gripping system (160). Said positioning device (110) comprises a vertically guiding member (101), a movable support (120) which is mounted on said guiding member (101) in such a way that it is displaceable at least in a vertical direction by using a hinged arm (130), a first sub-frame (140) which is mounted on the hinged arm (130) in such a way that it is pivotable around a first axis of rotation (A) which is substantially horizontal in operation, wherein said hinged arm (130) is at least remotable from and closable to the first sub-frame (140) of the movable support (120), a motor (141) for pivoting the first sub-frame (140) about said first axis of rotation (A), a second sub-frame (150) mounted on the first sub-frame (140) in such a way that it is displaceable along a first pre-determined translation axis (B) which is substantially horizontal in operation and means for moving the second sub-frame (150) along said first translation axis (B). The hood gripping system (160) is fixed to the second sub-frame (150) and comprises a predetermined arrangement of gripping members (161) for catching a predetermined arrangement of hoods (33) at a predetermined number of fixing points. Said invention makes it possible to carry out an accurate and automated hood handling.

IPC 8 full level

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