

Title (en)

Regulation de vice for a group of electrolytic cells with mercury cathode.

Title (de)

Vorrichtung zur Regulierung einer Gruppe von Quecksilberkathoden Elektrolysezellen.

Title (fr)

Installation pour la régulation d'un groupe de cellules d'électrolyse à cathode de mercure.

Publication

EP 0085999 A1 19830817 (FR)

Application

EP 83200088 A 19830121

Priority

FR 8201611 A 19820128

Abstract (en)

1. Installation for controlling the anode-cathode distances in an assembly of electrolysis cells which each comprise anode units (4, 4', 4'', 5, 5', 5'') movable with respect to a mercury cathode and motors for moving the anode units individually with respect to the cathode, which installation comprises on the one hand, local control units (8) which are each associated with a cell (1, 2, 3) of the assembly of cells and which each comprise : a device (11) for measuring the electrical conductance, a converter (12) of the electrical conductance into an electrical signal, a detector (14) of local operating conditions of the cell with which it is associated, a converter (15) of the detected local operating conditions into electrical signals, a circuit (18) for comparing the signals of the converter (12) with reference signals representative of reference inputs for the electrical conductance, a comparison memory (19) coupled with the comparison circuit (18), a programmer (20) designed for accomplishing the operation of the local unit in two stages comprising, in a first stage, a selective connection of the anode units to its measuring device (11) and a coupling of its comparison circuit (18) with its comparison memory (19) and, in a second stage, a selective coupling of the anode unit motors with its comparison memory (19) ; on the other hand, a central control unit (9) which comprises : a device (21) for coupling the central control unit (9) with the local control units (8), a local operation memory (22) for storing the signals originating from the converter (15) of the local units (8), a reference circuit (23) designed for defining reference signals from the signals of the local operation memory (22) of the central control unit (9), a reference memory (24) for storing the reference signals originating from the reference circuit (23), a programmer (26) programmed for coupling the central control unit (9) separately and successively with each control unit (8) and connecting the local operation memory (22) and the reference memory (24) of the central unit (9) to the converter (15) and the comparison circuit (18) respectively of the local unit (8) coupled with the central unit (9).

Abstract (fr)

Installation pour le réglage des anodes d'un groupe de cellules d'électrolyse à cathode de mercure (1, 2, 3) comprenant des unités locales de régulation (8) associées aux cellules et conçues pour calculer la valeur instantanée de la conductance électrique de la couche d'électrolyte entre les anodes (4, 4', 4'', 5, 5', 5'') et la cathode et actionner un moteur de réglage des anodes par comparaison de cette valeur avec une valeur de consigne. Une unité centrale de régulation (9) dialogue sélectivement avec les unités locales et calcule, pour chacune d'elles, la valeur de consigne au départ d'informations sur la marche de l'électrolyse.

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Citation (search report)

- [AD] FR 2396098 A1 19790126 - HOECHST AG [DE]
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