

Title (en)

METHOD FOR PREPARING CHLORINE BY ELECTROLYSIS OF HYDROCHLORIC ACID, AND ELECTROLYTIC CELL THEREFOR

Publication

**EP 0004903 A3 19791114**

Application

**EP 79101017 A 19790404**

Priority

DE 2816152 A 19780414

Abstract (en)

[origin: ES479479A1] In the production of chlorine and hydrogen from hydrochloric acid by electrolysis in an electrolysis cell comprising a plurality of vertically arranged bipolar electrodes, a diaphragm arranged between each two electrodes to divide the electrolysis chambers formed between them into an anolyte chamber and a catholyte chamber, and outlet and inlet devices for the electrolyte, the improvement which comprises electrolyzing the hydrochloric acid in at least two successive stages, and degassing the hydrochloric acid. Advantageously the hydrochloric acid moves from bottom to top, first through an upper stage and then through a lower stage. As a result less electrode surface is needed, a higher current density and/or voltage is possible so existing apparatus can be modified to connect more bipolar electrodes in series.

IPC 1-7

**C25B 1/26**

IPC 8 full level

**C25B 1/26** (2006.01); **C25B 9/19** (2021.01)

CPC (source: EP US)

**C25B 1/26** (2013.01 - EP US)

Citation (search report)

- [A] DE 2162487 A1 19730628 - DOW CHEMICAL CO
- [A] DE 2222637 A1 19731129 - BAYER AG
- [A] FR 358245 A 19060202 - EUGENE FRANCOIS COTE [FR], et al

Cited by

EP4403589A1; WO2024153745A1; WO2024126607A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

**EP 0004903 A2 19791031**; **EP 0004903 A3 19791114**; **EP 0004903 B1 19801210**; DE 2816152 B1 19791018; DE 2816152 C2 19800703; DE 2960061 D1 19810219; ES 479479 A1 19790716; JP S54137496 A 19791025; US 4236983 A 19801202

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