

Title (en)

Process and apparatus for the production of silver nitrate.

Title (de)

Verfahren und Vorrichtung zum Erzeugen von Silbernitrat.

Title (fr)

Procédé et dispositif pour la production de nitrate d'argent.

Publication

EP 0445516 B1 19940921 (DE)

Application

EP 91100949 A 19910125

Priority

DE 4006764 A 19900303

Abstract (en)

[origin: EP0445516A1] To produce silver nitrate, use is made of an apparatus comprising a cathode chamber (3) having a silver-free cathode (9) immersed in nitric acid, an anode chamber (4) having a silver anode (8) immersed in nitric acid, and an anion exchanger membrane (2) separating the cathode chamber (3) and the anode chamber (4). The concentration of nitric acid in the cathode chamber (3) is higher than in the anode chamber (4). When a direct voltage is applied, silver is anodically dissolved and nitrate ions migrate through the anion exchanger membrane (2) into the anode space. Virtually no undesired nitrogen oxides are produced in this process. <IMAGE>

IPC 1-7

C25B 1/00

IPC 8 full level

C25B 1/00 (2006.01)

CPC (source: EP)

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Citation (examination)

- US 3554125 A 19710112 - DORN WARREN G VAN, et al
- US 4082835 A 19780404 - CHLANDA FREDERICK P, et al
- EP 0081092 A1 19830615 - ALLIED CORP [US]
- FR 2399457 A1 19790302 - ALLIED CHEM [US]
- US 4219396 A 19800826 - GANCY ALAN B [US], et al

Cited by

CN104789982A; CN114959734A; WO0036185A3

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