

Title (en)

PROCESS FOR PRODUCTION OF MONOHYDRATE ALUMINA FROM SUPERSATURATED ALUMINATE SOLUTIONS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON BOEHMITE AUS ÜBERSÄTTIGTEN ALUMINATLÖSUNGEN

Title (fr)

PROCEDE DE PRODUCTION DE D'OXYDE D'ALUMINIUM HYDRATE A PARTIR DE SOLUTIONS D'ALUMINATES SURNATUREES

Publication

**EP 0996590 A1 20000503 (EN)**

Application

**EP 98925868 A 19980623**

Priority

- GR 9800019 W 19980623
- GR 97100253 A 19970624

Abstract (en)

[origin: WO9858876A1] Process for production of monohydrate alumina (boehmite) with precipitation from supersaturated sodium aluminate solutions starting at temperatures lower than 100 DEG C. The current invention is referred to a new aluminium precipitation process from supersaturated sodium aluminate solutions at temperatures lower than 100 DEG C in which aluminium is precipitated with the form of monohydrate alumina (boehmite, Al<sub>2</sub>O<sub>3</sub>.H<sub>2</sub>O). The process for production of monohydrate alumina (boehmite, Al<sub>2</sub>O<sub>3</sub>.H<sub>2</sub>O), from supersaturated sodium aluminate solutions, is characterised by precipitation at temperatures lower than 100 DEG C. The process comprises a highly innovative variation of the precipitation step in the current Bayer process in which it is achieved 40 % energy reduction in the calcination stage and more than 10 % total energy savings in the Bayer process.

IPC 1-7

**C01F 7/14**

IPC 8 full level

**C01F 7/14 (2006.01); C01F 7/144 (2022.01)**

CPC (source: EP)

**C01F 7/144 (2013.01)**

Citation (search report)

See references of WO 9858876A1

Designated contracting state (EPC)

CH DE ES FR GB GR IT LI

DOCDB simple family (publication)

**WO 9858876 A1 19981230; AU 7783398 A 19990104; CA 2294478 A1 19981230; EP 0996590 A1 20000503; GR 1002926 B 19980616**

DOCDB simple family (application)

**GR 9800019 W 19980623; AU 7783398 A 19980623; CA 2294478 A 19980623; EP 98925868 A 19980623; GR 970100253 A 19970624**