

Title (en)  
HIGH YIELD PRECIPITATION PROCESS

Title (de)  
VERFAHREN ZUR AUSFÄLLUNG MIT ERHÖHTER AUSBEUTE

Title (fr)  
PROCEDE PAR PRECIPITATION A RENDEMENT ELEVE

Publication  
**EP 0839118 A4 19981209 (EN)**

Application  
**EP 96922684 A 19960711**

Priority  

- AU 9600435 W 19960711
- AU PN410795 A 19950711
- AU PN478595 A 19950814

Abstract (en)  
[origin: WO9703022A1] A process for precipitating alumina trihydrate from a pregnant caustic liquor comprising supplying the pregnant caustic liquor (10) to a precipitation stage of a Bayer plant. The precipitation stage includes an agglomeration stage (A1, A2) and a growth stage (G1, G2... Glast). Precipitation of alumina trihydrate takes place in the precipitation stage to form a slurry of precipitated alumina trihydrate in caustic liquor. During the precipitation process, the slurry is diluted by addition of an aqueous stream (115). This dilutes the caustic concentration of the liquor in the slurry, which increases the driving force for precipitation, thereby increasing yields from the precipitation process. The dilution stream may be added to the slurry as a single stream or a plurality of streams.

IPC 1-7  
**C01F 7/06**

IPC 8 full level  
**C01F 7/144** (2022.01)

CPC (source: EP KR)  
**C01F 7/06** (2013.01 - KR); **C01F 7/144** (2013.01 - EP); **C01P 2004/50** (2013.01 - EP); **C01P 2004/61** (2013.01 - EP)

Citation (search report)  

- [X] US 4732742 A 19880322 - PUIG JEAN-PHILIPPE [FR]
- [A] DE 2616182 A1 19761028 - NORSK HYDRO AS
- See references of WO 9703022A1

Designated contracting state (EPC)  
ES IE

DOCDB simple family (publication)  
**WO 9703022 A1 19970130**; BR 9609429 A 20000425; CA 2226842 A1 19970130; EP 0839118 A1 19980506; EP 0839118 A4 19981209; KR 19990028922 A 19990415

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