

Title (en)
IMPROVEMENTS RELATING TO THE BAYER PROCESS

Title (de)
VERBESSERUNG DES BAYER PROCESSES

Title (fr)
PERFECTIONNEMENTS SE RAPPORTANT AU PROCEDE BAYER

Publication
EP 1044164 A1 20001018 (EN)

Application
EP 98963023 A 19981210

Priority
• AU PP084997 A 19971211
• US 9826206 W 19981210

Abstract (en)
[origin: WO9929626A1] The present invention relates to a method for reducing scale in the Bayer process comprising: (a) digesting an aluminous ore in a caustic liquor to extract alumina values; (b) feeding the liquor to a settler tank to clarify the liquor by separating caustic insoluble materials; and (c) precipitating alumina crystals from the clarified liquor, the process further comprising adding a polysaccharide to the feed of the settler in an amount less than 50 ppm, said amount being sufficient to minimize the formation of scale and lengthen the time between descaling operations in comparison with a feed in the absence of polysaccharide. By using the method of the invention it is possible to substantially lengthen the time between descaling operations in some cases by over 100 %.

IPC 1-7
C01F 7/04; **C22B 21/00**

IPC 8 full level
C01F 7/06 (2006.01); **C01F 7/0653** (2022.01); **C02F 5/10** (2006.01); **C22B 21/00** (2006.01)

CPC (source: EP)
C01F 7/0653 (2013.01); **C02F 5/10** (2013.01); **C22B 21/0007** (2013.01)

Designated contracting state (EPC)
IE IT

DOCDB simple family (publication)
WO 9929626 A1 19990617; AU 1813599 A 19990628; AU PP084997 A0 19980108; BR 9813467 A 20001010; EP 1044164 A1 20001018; EP 1044164 A4 20020904

DOCDB simple family (application)
US 9826206 W 19981210; AU 1813599 A 19981210; AU PP084997 A 19971211; BR 9813467 A 19981210; EP 98963023 A 19981210