

Title (en)

PURIFICATION OF PHOSPHORIC ACID PLANT POND WATER

Title (de)

REINIGUNG VON TEICHWASSER AUS PHOSPHORSÄUREANLAGE

Title (fr)

PURIFICATION D'EAU DE BASSIN D'INSTALLATION CONTENANT DE L'ACIDE PHOSPHORIQUE

Publication

**EP 1438264 A1 20040721 (EN)**

Application

**EP 02782203 A 20021022**

Priority

- US 0233775 W 20021022
- US 35335901 P 20011025
- US 8284102 A 20020221
- US 8256402 A 20020221

Abstract (en)

[origin: WO03035557A1] A process for the partial purification of contaminated phosphoric acid plant pond water is described, in which the pond water is treated sequentially, with two basic compounds, clarified, aged, clarified again and re-acidified. The thus treated pond water, still containing the majority of the phosphate originally present, can then be concentrated via the removal of essentially pure water, using any conventional means of concentration, without the formation of solid precipitates. In addition, a simplified process for the partial purification of contaminated phosphoric acid plant pond water having a molar calcium plus magnesium to fluorine ratio greater than or equal to about 0.60, is described, in which the pond water is treated with a basic compound, clarified, aged, clarified again and re-acidified. The thus treated pond water, still containing the majority of the phosphate originally present, can then be concentrated via the removal of essentially pure water, using any conventional means of concentration, without the formation of solid precipitates.

IPC 1-7

**C02F 1/66**; **C02F 1/52**

IPC 8 full level

**C02F 1/52** (2006.01); **C02F 1/66** (2006.01)

CPC (source: EP)

**C02F 1/5245** (2013.01); **C02F 1/5254** (2013.01); **C02F 1/66** (2013.01); **C02F 2101/105** (2013.01); **C02F 2101/14** (2013.01)

Citation (search report)

See references of WO 03035557A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

**WO 03035557 A1 20030501**; BR 0213525 A 20041019; CA 2463361 A1 20030501; CN 1608034 A 20050420; EP 1438264 A1 20040721; IL 161385 A0 20040927; MA 26396 A1 20041201

DOCDB simple family (application)

**US 0233775 W 20021022**; BR 0213525 A 20021022; CA 2463361 A 20021022; CN 02825904 A 20021022; EP 02782203 A 20021022; IL 16138502 A 20021022; MA 27628 A 20040409