

Title (en)

CONDITIONING METHOD FOR DEHYDRATING CLARIFICATION SLUDGE

Title (de)

KONDITIONIERUNGSVERFAHREN ZUR KLÄRSCHLAMMENTWÄSSERUNG

Title (fr)

PROCEDE DE CONDITIONNEMENT POUR LA DESHYDRATATION DES BOUES DE CURAGE

Publication

EP 1049652 A1 20001108 (DE)

Application

EP 99902534 A 19990112

Priority

- DE 19802238 A 19980122
- EP 9900135 W 19990112

Abstract (en)

[origin: DE19802238A1] Sewage sludge is first subjected to a conventional oxidative preconditioning with hydrogen peroxide under acidic conditions and then subjected to an inorganic postconditioning by adding calcium hydroxide (Ca(OH)₂) to adjust the pH to 9-11 before mechanical dewatering. Preconditioning comprises adding substoichiometric amounts of hydrogen peroxide and iron ions at a pH of 5 or less to effect catalytic partial oxidation.

IPC 1-7

C02F 1/72; **C02F 11/14**

IPC 8 full level

C02F 1/72 (2006.01); **C02F 11/06** (2006.01); **C02F 11/14** (2006.01); **C02F 11/145** (2019.01)

CPC (source: EP US)

C02F 11/06 (2013.01 - EP US); **C02F 11/145** (2018.12 - EP US); **C02F 2305/026** (2013.01 - EP US)

Citation (search report)

See references of WO 9937585A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

DE 19802238 A1 19990729; AU 2278999 A 19990809; CA 2318092 A1 19990729; EP 1049652 A1 20001108; JP 2002500953 A 20020115; US 6368511 B1 20020409; WO 9937585 A1 19990729

DOCDB simple family (application)

DE 19802238 A 19980122; AU 2278999 A 19990112; CA 2318092 A 19990112; EP 9900135 W 19990112; EP 99902534 A 19990112; JP 2000528514 A 19990112; US 60053700 A 20000718