

Title (en)

PREPARATION OF NEW HYDROTALCITE-LIKE ADSORBENTS USEFUL FOR THE ADSORPTION OF ANIONIC MATERIALS

Title (de)

HERSTELLUNG VON NEUEN HYDROTALCITARTIGEN ADSORPTIONSMITTELN, DIE ZUR VERWENDUNG ZUR ADSORPTION VON ANIONISCHEN SUBSTANZEN GEEIGNET SIND

Title (fr)

PRÉPARATION DE NOUVEAUX ADSORBANTS DE TYPE HYDROTALCITE UTILES POUR L'ADSORPTION DE MATÉRIAUX ANIONIQUES

Publication

**EP 2178635 A1 20100428 (EN)**

Application

**EP 08773855 A 20080703**

Priority

- EP 2008005449 W 20080703
- EP 07013095 A 20070704
- EP 08773855 A 20080703

Abstract (en)

[origin: EP2014358A1] The invention discloses a method for the synthesis of hydrotalcite-like adsorbent which is in particular suitable for the adsorption of sulfur-containing anions, e.g. in the purification of drinking water. The method comprises mixing an aqueous aluminium source and aqueous magnesium source with an alkaline and/or soda containing solution under high shear agitation. As the aluminium source is used an extract derived from the extraction of clays with strong mineral acids in the production of bleaching earth. The product can be easily separated and directly used as an adsorbent for different anions.

IPC 8 full level

**B01J 20/04** (2006.01); **B01J 20/30** (2006.01); **C02F 1/28** (2006.01)

CPC (source: EP US)

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Citation (search report)

See references of WO 2009003709A1

Citation (examination)

- JP 2004167408 A 20040617 - AISIN TAKAOKA LTD, et al
- JP 2007051022 A 20070301 - DENKI KAGAKU KOGYO KK

Cited by

CN110508261A; CN109897954A

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