

Title (en)
NOVEL MINERAL GAS ADSORBERS FOR BIOGAS PLANTS

Title (de)
NEUE MINERALISCHE GASADSORBER FÜR BIOGASANLAGEN

Title (fr)
NOUVEAUX ADSORBANTS MINÉRAUX DE GAZ POUR INSTALLATIONS DE PRÉPARATION DE BIOGAZ

Publication
EP 2300154 A2 20110330 (DE)

Application
EP 09729777 A 20090409

Priority
• EP 2009054323 W 20090409
• DE 102008018698 A 20080409

Abstract (en)
[origin: WO2009125004A2] The invention relates to the use of naturally occurring and modified mineral adsorbers for purifying the crude gas in biogas plants and disposal stations from undesired or harmful accompanying substances, e.g. hydrogen sulfide and ammonia. The mineral adsorbers are characterized in that smectite-rich clays/bentonites containing at least 50 percent of three-layer silicates capable of swelling and/or halloysites containing at least 50 percent of halloysite can be used as agglomerates or granulates.

IPC 8 full level
B01J 20/12 (2006.01); **B01D 53/02** (2006.01); **B01J 20/16** (2006.01); **C10L 3/10** (2006.01)

CPC (source: EP)
B01D 53/02 (2013.01); **B01J 20/12** (2013.01); **B01J 20/16** (2013.01); **C10L 3/10** (2013.01); **C10L 3/102** (2013.01); **C12M 47/18** (2013.01); **B01D 2253/106** (2013.01); **B01D 2253/11** (2013.01); **B01D 2253/306** (2013.01); **B01D 2253/311** (2013.01); **B01D 2257/304** (2013.01); **B01D 2257/406** (2013.01); **B01D 2258/05** (2013.01); **Y02E 50/30** (2013.01)

Citation (search report)
See references of WO 2009125004A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
WO 2009125004 A2 20091015; **WO 2009125004 A3 20100225**; **WO 2009125004 A4 20100429**; DE 102008018698 A1 20091022;
EP 2300154 A2 20110330

DOCDB simple family (application)
EP 2009054323 W 20090409; DE 102008018698 A 20080409; EP 09729777 A 20090409