

Title (en)
METHOD FOR THE SELECTIVE REMOVAL OF HYDROGEN SULFIDE

Title (de)
VERFAHREN ZUR SELEKTIVEN ENTFERNUNG VON SCHWEFELWASSERSTOFF

Title (fr)
PROCÉDÉ D'ÉLIMINATION SÉLECTIVE DE SULFURE D'HYDROGÈNE

Publication
EP 3356015 A2 20180808 (DE)

Application
EP 16777611 A 20160926

Priority
• EP 15187408 A 20150929
• EP 2016072785 W 20160926

Abstract (en)
[origin: WO2017055192A2] An absorbent for the selective removal of hydrogen sulfide from a fluid stream containing carbon dioxide and hydrogen sulfide contains: a) an amine compound of formula (I), where X, R1 to R7, x, y and z are defined as per the description; and b) a non-aqueous solvent; wherein the absorbent contains less than 20 wt. % water. Also disclosed is a method for the selective removal of hydrogen sulfide from a fluid stream containing carbon dioxide and hydrogen sulfide, wherein the fluid stream is brought into contact with the absorbent. The absorbent is characterised by high loadability, high cyclical capacity, good regeneration characteristics and low viscosity.

IPC 8 full level
B01D 53/14 (2006.01); **C10L 3/10** (2006.01)

CPC (source: EP KR US)
B01D 53/1425 (2013.01 - US); **B01D 53/1468** (2013.01 - EP KR US); **B01D 53/1493** (2013.01 - EP KR US); **C10L 3/10** (2013.01 - EP KR US); **C10L 3/101** (2013.01 - EP KR US); **C10L 3/102** (2013.01 - EP KR US); **C10L 3/103** (2013.01 - US); **B01D 2252/2026** (2013.01 - EP KR US); **B01D 2252/2041** (2013.01 - EP KR US); **B01D 2252/20415** (2013.01 - EP KR US); **B01D 2252/20431** (2013.01 - EP KR US); **B01D 2252/20489** (2013.01 - EP); **B01D 2252/2056** (2013.01 - EP KR US); **B01D 2252/40** (2013.01 - EP KR US); **C10L 2290/541** (2013.01 - US); **Y02C 20/40** (2020.08 - EP)

Designated contracting state (EPC)
AL 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 RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2017055192 A2 20170406; **WO 2017055192 A3 20170526**; AU 2016330648 A1 20180329; BR 112018003582 A2 20180925; CA 3000286 A1 20170406; CN 108136317 A 20180608; CO 2018003674 A2 20180810; EP 3356015 A2 20180808; IL 258344 A 20180531; JP 2018531147 A 20181025; KR 20180058723 A 20180601; MX 2018004012 A 20180523; SG 11201801409P A 20180427; US 2018304191 A1 20181025; ZA 201802685 B 20190731

DOCDB simple family (application)
EP 2016072785 W 20160926; AU 2016330648 A 20160926; BR 112018003582 A 20160926; CA 3000286 A 20160926; CN 201680056411 A 20160926; CO 2018003674 A 20180405; EP 16777611 A 20160926; IL 25834418 A 20180325; JP 2018516575 A 20160926; KR 20187008420 A 20160926; MX 2018004012 A 20160926; SG 11201801409P A 20160926; US 201615764142 A 20160926; ZA 201802685 A 20180423