

Title (en)  
ACIDIC GAS CAPTURE BY DIAMINES

Title (de)  
SAUERGASABSCHEIDUNG MITTELS DIAMINEN

Title (fr)  
CAPTURE DE GAZ ACIDE PAR DES DIAMINES

Publication  
**EP 2432576 A4 20130424 (EN)**

Application  
**EP 09845037 A 20090522**

Priority  
US 2009045075 W 20090522

Abstract (en)  
[origin: WO2010134926A1] Compositions and methods related to the removal of acidic gas. In particular, the present disclosure relates to a composition and method for the removal of acidic gas from a gas mixture using a solvent comprising a thermally stable amine and carbon dioxide. One example of a method may involve a method for removing acidic gas comprising contacting a gas mixture having an acidic gas with a solvent, wherein the solvent comprises a thermally stable amine in an amount from about 3 to about 20 moles/kg of water, and carbon dioxide in an amount of from about 0.1 to about 0.6 moles per mole of a thermally stable amine.

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CPC (source: EP)  
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Citation (search report)

- [X] JP 2008056642 A 20080313 - RES INST INNOVATIVE TECH EARTH
- See references of WO 2010134926A1

Citation (examination)

- FREEMAN S A ET AL: "Carbon dioxide capture with concentrated, aqueous piperazine", ENERGY PROCEDIA, ELSEVIER, NL, vol. 1, no. 1, 1 February 2009 (2009-02-01), pages 1489 - 1496, XP026472042, ISSN: 1876-6102, [retrieved on 20090201], DOI: 10.1016/J.EGYPRO.2009.01.195
- KOHL A L, NIELSEN R B: "Gas Purification", 1997, GULF PUBLISHING COMPANY, Houston, Texas

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**US 2009045075 W 20090522**; AU 2009346379 A 20090522; CA 2765673 A 20090522; EP 09845037 A 20090522