

Title (en)

CARBON CAPTURE AND STORAGE USING MINIMAL OFFSHORE STRUCTURES

Title (de)

KOHLENSTOFFBINDUNG UND -SPEICHERUNG MIT MINIMALEN OFFSHORE-STRUKTUREN

Title (fr)

CAPTURE ET STOCKAGE DU CARBONE UTILISANT DES STRUCTURES EN MER MINIMALES

Publication

EP 2446109 A2 20120502 (EN)

Application

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Priority

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Abstract (en)

[origin: WO2010149953A2] A means of offshore carbon capture using minimal offshore structures has a pipeline (1) supplying sequestered carbon dioxide, and a control or power source (5) located in a minimal offshore structure (4) connected to a pipeline (8) with access to a geological formation suitable for carbon dioxide storage. The geological formation can be a depleted oil field, coal seam, or natural rock strata. Compressors (3) sited offshore can be used to pressurize the carbon dioxide. The minimal offshore structure (4) can be fixed or floating and can be powered by diesel generators (5) or by a wind turbine. EOR or CBM recovery can also be included. Also, methanol can be produced using the sequestered carbon dioxide in combination with hydrogen formed by electrolysis.

IPC 8 full level

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CPC (source: EP GB)

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