Patents (C01B3/40 OR B01D53/047 OR C01B3/48 OR C01B2203/0 1 of 136,372

(C01B3/40 OR B01D53/047 OR C01B3/48 OR C01B2203/0233 OR C01B2203/0244 OR C01B2203/0405 OR C01 B2203/042 OR C01B2203/046 OR C01B2203/1058 OR C01B2203/1241 OR B01D53/002 OR C01B32/50 OR B01D53/22 OR B01D2256/16 OR BO1D2257/504 OR CO1B2203/0283 OR C01B2203/043 OR C01B2203/0475 OR C01B2203/147 OR Y02C20/40 OR Y02P20/151 OR C01B3/56 OR C01B3/38 OR C01B3/503 OR C01B3/506 OR C01B2203/0261 OR C01B2203/0811 OR C01B2203/1235 OR C01B3/382 OR F25J3/067 OR F25J3/08 OR C01B2203/0833 OR C01B2203/0838); Before: filing 2022-10-05; Country: WO, US, EP, JP;

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## Nickel-rhodium based catalysts and process for preparing synthesis gas

WO EP US ~~AT~~ AU ~~CA~~ ~~DE~~ DK • US6409940B1 • Anne M. Gaffney • Conoco Inc.

Priority 1999-10-18 • Filed 2000-10-13 • Granted 2002-06-25 • Published 2002-06-25

A process of preparing a product gas mixture comprising CO and H2 from a light hydrocarbon and O2 mixture is disclosed. The process includes contacting a reactant gas mixture comprising a C1-C5 hydrocarbon and a source of molecular oxygen with a catalytically effective amount of a supported …

## Method for capturing carbon dioxide from air and directly converting it into …

WO EP US CN JP KR AU *BR* CA *CL* *MX* • JP7660138B2 • シュツレ，ロバート・インフィニウム テクノロジー，エルエルシー

Priority 2020-05-04 • Filed 2021-05-03 • Granted 2025-04-10 • Published 2025-04-10

1. An integrated process for converting a feed stream comprising air, electricity, and water into a product stream comprising a hydrocarbon, the process comprising: a. an electrolysis step for converting an electrolyzer feed stream comprising water into an electrolyzer product stream comprising …

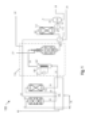
## Hollow fiber membrane contactor scrubber/stripper for cabin carbon dioxide and …

EP US • US11707709B2 • Jun Isobe • Honeywell International Inc.

Priority 2017-02-27 • Filed 2021-09-02 • Granted 2023-07-25 • Published 2023-07-25

An environmental control system includes an air conditioning subsystem and a contaminant removal subsystem downstream of the environment to be conditioned. The contaminant removal subsystem includes: a first gas-liquid contactor-separator; a second gas-liquid contactor-separator; and a …

## Chemical plant with a reforming section and a process for producing a chemical …



WO EP US CN KR CA ES FI • EP3931147B1 • Peter Mølgaard Mortensen • Topsoe A/S

Priority 2019-02-28 • Filed 2020-02-27 • Granted 2023-06-07 • Published 2023-06-07

A chemical plant comprising: - a reforming section arranged to receive a feed gas comprising hydrocarbons including methane and provide an output synthesis gas, wherein said reforming section comprises: - an electrically heated reforming reactor housing a first catalyst, said electrically heated …

## Carbon capture system, apparatus, and method

WO US • US20210396168A1 • Donald Williams • Donald Williams

Priority 2016-09-21 • Filed 2021-06-01 • Published 2021-12-23

A combined power conversion and carbon capture and recycling subsystem including a fossil fueled oxidation unit, a physical adsorbent CO2 capture medium, rotor, motor, heater, CO2 compressor, diffuser and water storage tank. Exhaust gas from fossil fuel oxidation is scrubbed of CO2 via passage …

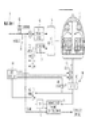
## Alkali enrichment mediated CO2 sequestration methods, and systems for …

WO US • US10898854B2 • Brent R. Constantz • Blue Planet Systems Corporation

Priority 2014-03-03 • Filed 2017-06-19 • Granted 2021-01-26 • Published 2021-01-26

Methods of sequestering CO2 from a gaseous source of CO2 are provided. Aspects of the methods include employing an alkali enrichment protocol, such as a membrane mediated alkali enrichment protocol, in a CO2 sequestration protocol. Also provided are systems for practicing the methods.

## Dual stripper with water sweep gas

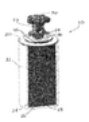


WO EP US • US10688435B2 • Phoebe Henson • Honeywell International Inc.

Priority 2017-02-27 • Filed 2018-02-14 • Granted 2020-06-23 • Published 2020-06-23

An environmental control system includes an air conditioning subsystem and a contaminant removal subsystem downstream of the environment to be conditioned. The contaminant removal subsystem includes a first gas-liquid contactor-separator, a second gas-liquid contactor-separator, and a third gas- …

## Gas supply packages, adsorbents, and related methods

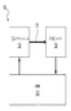


WO ~~US~~ CN JP KR TW • US20210370259A1 • Lawrence H. Dubois • Entegris, Inc.

Priority 2015-11-07 • Filed 2021-08-10 • Published 2021-12-02

Adsorbents of varying types and forms are described, as usefully employed in gas supply packages that include a gas storage and dispensing vessel holding such adsorbent for storage of sorbate gas thereon, and a gas dispensing assembly secured to the vessel for discharging the sorbate gas from the …

## Carbon dioxide sorbents for indoor air quality control



WO EP US CN JP KR BR *MX* RU *ZA* • JP2021062374A • 理一郎 木村 • ビーエーエスエフ コーポレーション
Priority 2015-03-23 • Filed 2021-01-06 • Published 2021-04-22
Gas adsorption material containing amine compounds, A hydroxyl-containing additive containing at least one of a compound based on glycerol, glycerin, pentaerythritol, sorbitol, sucrose, polyether, polyester, ethylene glycol, or silicon, and a porous carrier impregnated with the gas adsorbent.

## Porous carbon materials for CO2 separation in natural gas

US • US9776165B2 • James M. Tour • William Marsh Rice University
Priority 2012-01-11 • Filed 2016-01-20 • Granted 2017-10-03 • Published 2017-10-03
In some embodiments, the present disclosure pertains to materials for use in CO 2 capture in high pressure environments. In some embodiments, the materials include a porous carbon material containing a plurality of pores for use in a high pressure environment. Additional embodiments pertain to …

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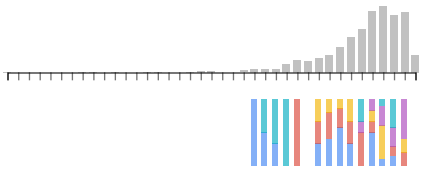

Relative count of top 5 values

| Assignees | Inventors | CPCs |
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| Air Products And Chemicals, Inc. | | 1 |
| Praxair Technology, Inc. | | 1 |
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