

Title (en)

PRODUCTION OF HYDROGEN FROM A REFORMING GAS AND SIMULTANEOUS CAPTURE OF CO₂ CO-PRODUCT

Title (de)

HERSTELLUNG VON WASSERSTOFF AUS EINEM REFORMIERGAS UND GLEICHZEITIGES ABFANGEN VON CO₂-COPRODUKT

Title (fr)

PRODUCTION D'HYDROGENE A PARTIR DE GAZ REFORME ET CAPTURE SIMULTANEE DU CO₂ CO-PRODUIT

Publication

EP 2376373 A1 20111019 (FR)

Application

EP 09795459 A 20091118

Priority

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- FR 0858472 A 20081211

Abstract (en)

[origin: WO2010066972A1] Process for producing hydrogen from a gas mixture comprising hydrogen, CO₂, CO, CH₄ and water, employing a CO₂ PSA unit, a cryogenic unit and an H₂ PSA unit, in which process: a) said gas mixture is introduced into the CO₂ PSA unit, producing a CO₂-enriched fraction and CO₂-depleted fraction; b) CO₂-enriched fraction is introduced into the cryogenic unit, producing a CO₂-enriched fraction and an H₂-enriched fraction; c) the H₂-enriched fraction is recycled upstream of the H₂ PSA unit; and d) the CO₂-depleted fraction coming from step b) is introduced into the H₂ PSA unit, producing a hydrogen-enriched stream and a waste gas.

IPC 8 full level

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CPC (source: EP US)

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