

ABSTRACT

INTEGRATED STEAM METHANE REFORMING PROCESS FOR PRODUCING CARBON MONOXIDE AND HYDROGEN

The present invention is a process for producing an essentially pure carbon monoxide (CO) product and an essentially pure hydrogen product by reforming a hydrocarbon such as methane and steam in the presence of a reforming catalyst to produce a reformat product enriched in CO, carbon dioxide and hydrogen. The reformat is subjected to an integrated series of separation steps and carbon dioxide present in a portion of the waste effluent recovered from such series of separation steps is shifted to CO in an integrated sorption enhanced reaction (SER) process.

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