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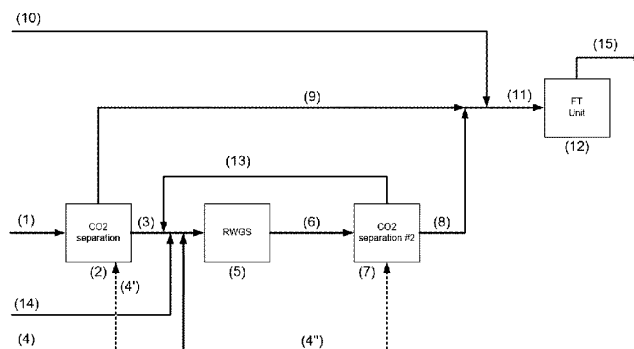


Fig. 1

(57) Abstract: OF THE DISCLOSURE It is provided a process for increasing production of carbon monoxide (CO) and recycling carbon dioxide when treating synthesis gas using a carbon dioxide-to-carbon monoxide conversion unit, such as a Reverse Water Gas Shift (RWGS) reactor, converting excess CO₂ from the produced syngas to additional CO, using an external source of green, renewable or low carbon intensity hydrogen.

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