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(54) Title: PRODUCTION OF SYNTHESIS GAS FROM GASIFYING AND REFORMING CARBONACEOUS MATERIAL

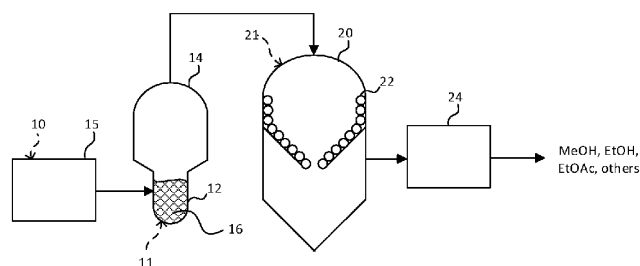


Fig. 2

(57) Abstract: It is provided a method of converting a carbonaceous material into syngas at a carbon conversion rate of at least 78% comprising gasifying the carbonaceous material in a fluidized bed reactor producing a crude syngas, classifying the crude syngas by particle size and density into a cut sizing device, introducing the classified particle crude syngas into a thermal reformer and reforming the classified crude syngas at a temperature above mineral melting point, producing the syngas.

WO 2020/206538 A1