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(54) Title: PROCESS AND PLANT FOR PRODUCING HYDROCARBONS FROM A SOLID RENEWABLE FEEDSTOCK WITH REDUCED CO₂-FOOTPRINT

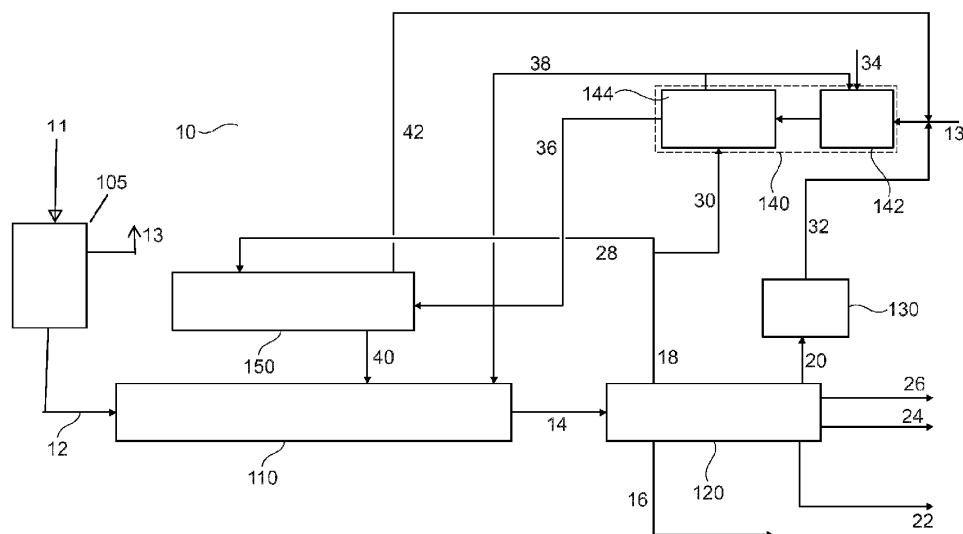


Fig.

(S7) **Abstract:** Process and plant for producing hydrocarbon products from a solid renewable feed-stock, where in a thermal decomposition section such as a pyrolysis section for the treatment of the solid renewable feedstock, a pyrolysis off-gas stream and a pyrolysis oil stream are generated, and where after hydroprocessing of the pyrolysis oil in a hydroprocessing section, a hydrogen-rich stream and an off-gas stream comprising hydrocarbons are produced. A portion of the hydrogen-rich stream is used as a recycle gas stream in the hydroprocessing section for the production of said hydrocarbon products, such as naphtha and diesel, and another portion may be used for hydrogen production in a hydrogen producing unit, while the off-gas stream is used together with the pyrolysis off-stream in the hydrogen producing unit. The produced hydrogen, i.e. make-up hydrogen, is used in the hydroprocessing section.

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