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(54) Title: CONTINUOUS AND SCALABLE PROCESSING OF FAST PYROLYSIS OIL TO YIELD A HEAVY AROMATIC FRACTION

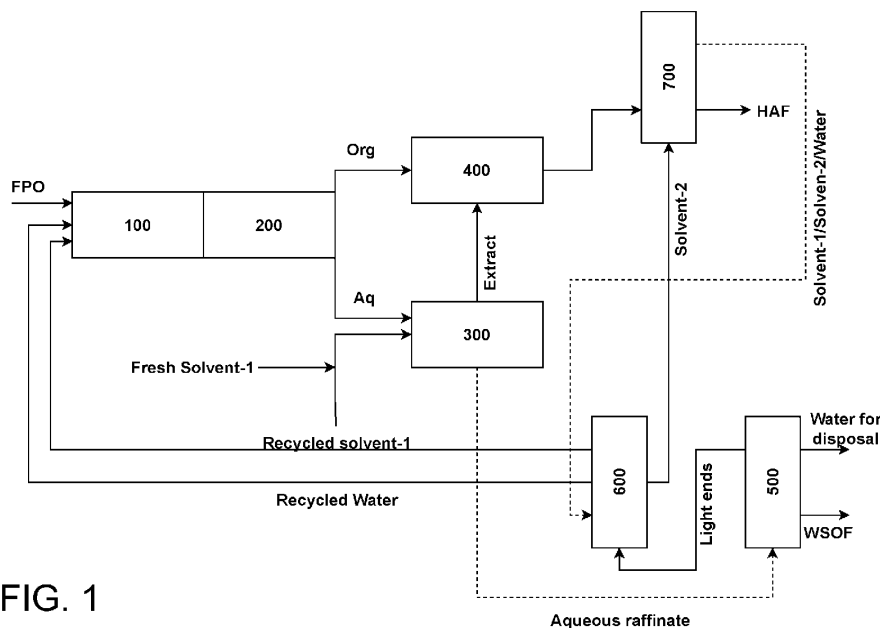


FIG. 1

(57) Abstract: Producing a heavy aromatic fraction from fast pyrolysis oil includes combining fast pyrolysis oil and a first solvent to yield an emulsion; heating the emulsion to yield an organic phase and an aqueous phase; vapor stripping the organic phase with a second solvent to yield the heavy aromatic fraction and a condensate comprising the first solvent, the second solvent, and water; concentrating the aqueous phase to yield a water-soluble organic fraction, water, and light ends comprising organic compounds having 1-6 carbon atoms; combining the condensate with the light ends to yield a mixture; distilling the mixture to yield a first stream comprising the first solvent and water and a second stream comprising the second solvent; combining the first stream with the fast pyrolysis oil to yield the emulsion; and combining the second stream with the organic phase to yield the heavy aromatic fraction and the condensate.

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