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(54) Title: METHOD AND DEVICE FOR PYROLYSIS-BASED PRODUCTION OF HYDROCARBON OILS BASED ON PLASTIC CONTAINING RAW MATERIAL

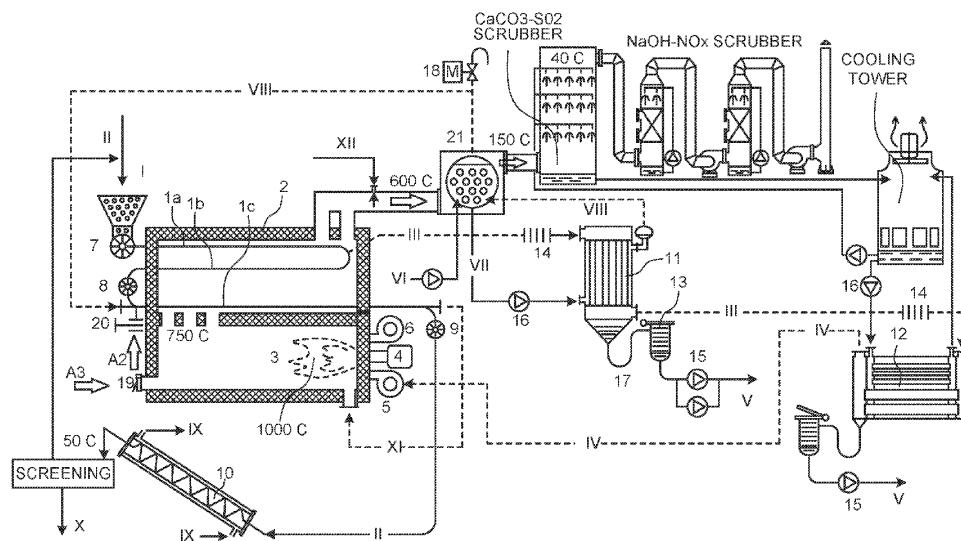


FIG. 1

(57) Abstract: A method and reactor assembly for pyrolysis-based production of hydrocarbon oils from a first plastic raw material, comprising optionally combining the plastic raw material with a second raw material selected from the group consisting of a hydrocarbon containing raw material selected among crumb rubber and wood chunks in an amount constituting more than 15 % by weight of the combined raw material adding a catalyst to the combined raw materials to thereby form a reaction composition, charging the reaction composition through an airlock valve (7) to an auger pyrolysis reactor (1a, 1b, 1c) comprising at least two auger reactors (1a, 1b) heated to a temperature in the range 450 – 550 °C, diverting oil vapours and non-condensable vapours from the auger reactors (1a, 1b) to a condensing device (11, 12), condensing in two steps a heavy oil fraction and a light oil fraction from said vapours.

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