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(54) **Title:** PHOSPHORUS RECOVERY FROM HYDROTHERMAL TREATMENT OF BIOMASS

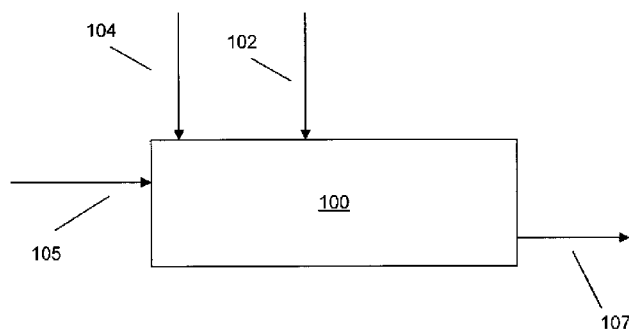


FIG. 1

(57) **Abstract:** Biomass based feeds are processed under hydrothermal treatment conditions to produce a hydrocarbon liquid product and a solids portion. The solids portion can contain a portion of the phosphorus from the biomass feed. The amount of phosphorus in the solids portion can be increased for some biomass feeds by adding a multivalent metal to the feed. The phosphorus from the solids portion can be recycled for further use, such as for growth of additional biomass.