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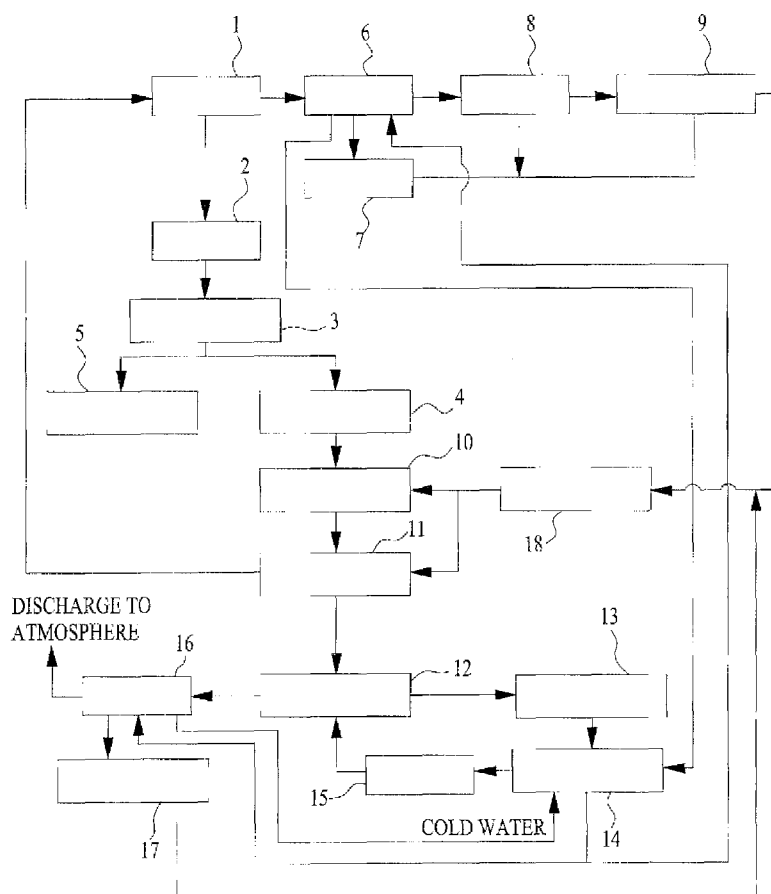
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(54) Title: WASTE-TIRE RECYCLING SYSTEM



(57) Abstract: Disclosed is a system for recycling waste tires, which are industrial wastes, so as to protect our environment against pollution and promote recycling of industrial material. The waste-tire recycling system includes a pyrolyzing unit for pyrolyzing a waste tire by using a pyrolysis reactor, in which a CO or N gas circulates as a carrier gas, a decomposed residue processing unit for crushing a decomposed residue pyrolyzed by the pyrolysis reactor to separate the decomposed residue into carbon and an iron core, an oil collecting unit for cooling and condensing an exhaust gas discharged from the pyrolysis reactor to recover heavy oil from the gas, a carbon processing unit for supplying a heat source to the circulating carrier gas by using a hot exhaust gas generated when the carbon separated from the decomposed residue is burned up, and operating a steam turbine and an absorption refrigerator to generate electricity and cold water, an exhaust gas processing unit for clarifying the exhaust gas discharged from the carbon processing unit to discharge the clarified gas in an atmosphere, and recovering a part of the CO or N gas from the exhaust gas.



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