

SUCCESSIVE PYROLYSIS SYSTEM OF WASTE SYNTHETIC-HIGHLY POLYMERIZED COMPOUND

ABSTRACT OF THE DISCLOSURE

Disclosed is a successive pyrolysis system of waste synthetic-highly polymerized compound for successively pyrolyzing combustible waste by indirect heating at a pyrolysis chamber maintaining an anaerobic or hypoxic environment, and producing refined oil like heavy oil and light oil according to boiling points at a distillation column to be used as heat source for the pyrolysis of the waste. The successive pyrolysis system comprises a hopper; an automatic waste injection device, which discharges a predetermined amount of waste from the hopper; a pyrolysis chamber for maintaining a high-temperature and hypoxic environment, and successively pyrolyzing the waste by indirect heating; a gas burning chamber for burning noncondensable gas among pyrolysis gas produced at the time of the pyrolysis of the waste, and providing heat of a predetermined temperature to the outer surface of the pyrolysis chamber to be used as heat source for the pyrolysis of the waste; a refined oil producing means for producing refined oil from the pyrolysis gas reformed after going through catalyst reaction and providing residual noncondensable gas to the gas burning chamber; and an automatic discharging device for successively discharging ashes transported after being pyrolyzed from the pyrolysis chamber.

FIGURE 1