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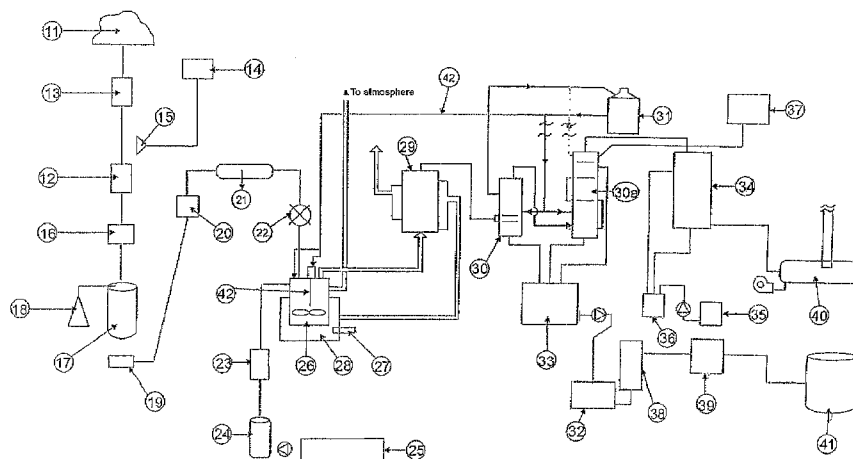
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(54) Title: PROCESS AND PLANT FOR CONVERSION OF WASTE MATERIAL TO LIQUID FUEL



(57) Abstract: A process and plant for the thermocatalytic conversion of waste materials into reusable fuels and a fuel produced by the process, involving the steps of delivering melted waste material (11) to one or more pyrolysis chambers (26) via heated and valved manifolds (22) and effecting pyrolysis of the waste material into a gaseous state in an oxygen purged and pressure controlled environment. Pyrolytic gases are, then transferred to a catalytic converter (29) where the molecular structure of the gaseous material is altered in structure and form, with gases then transferred to one or more condensers (30a) to distil and cool gases in to their respective fractions. After post pyrolysis treatment, fuel fractions then form a useable fuel. Includes the melting of waste (plastic) material (11) before delivery into any of the pyrolysis chambers (26), making the movement of material into the catalytic tower (29) a semi-continuous operation, directing melted waste material into one or more, but preferably four, pyrolysis chambers (26a, b, c, d), making each chamber capable of independent operation, optionally mechanically removing waste char from the pyrolysis chamber (107) by use of an internat auger (112) or other suitable means.

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