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(54) Title: SOLID INERT RESIDUE (SIR) DRYER AND EXTRACTOR SYSTEM

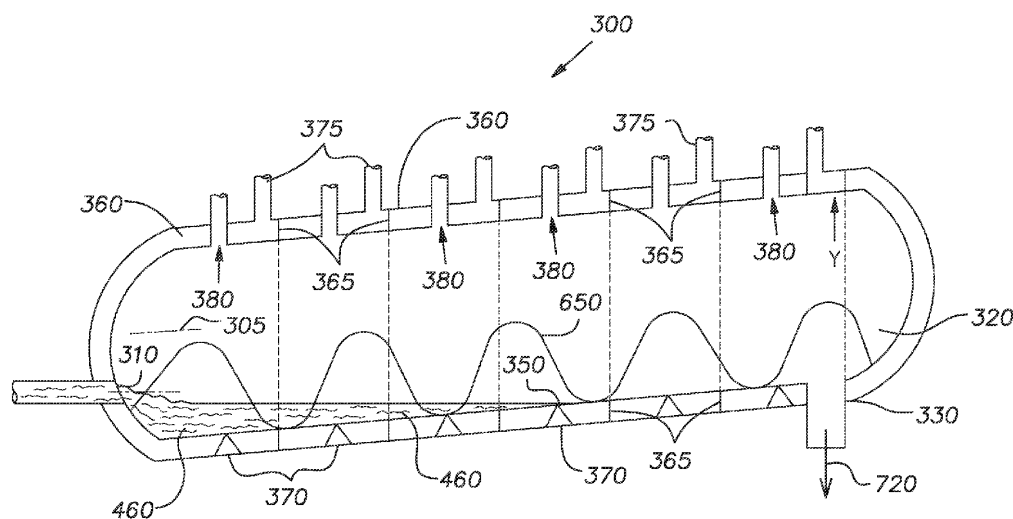


FIG. 1

(57) **Abstract:** Plastic conversion vessels such as pyrolytic reactors convert plastic waste materials such as polymers, or hydrocarbo-
neous material, or both, via in situ chemical reactions comprising cracking, recombination, reforming, re cracking, and the like, to us-
able chemical compounds such as naphtha, diesel fuel, heavy oil, wax, and the like. Inherent within the polymers and/or carbonaceous
material are generally solid, inert residues such as various fillers, pigments, flame retardants, silica, aluminum, talc, glass, clay, and so
forth. Such solid inert residues (SIR) must be treated to remove residual volatile organic material therefrom in order to meet acceptable
environmental standards and/or limits. A heated dryer for treating the SIR comprises heating units to remove excessive volatile organic
material therefrom as when moved along a conveyor that transfers said material to a collection area. The collection area comprises one
or more pistons that are capable of compacting and discharging said SIR material.

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WO 2022/046992 A1

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