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(54) Title: METHOD OF UPCYCLING CONDENSATION POLYMERS IN PLASTIC WASTE VIA CO-CATALYTIC PARTIAL DEPOLYMERIZATION

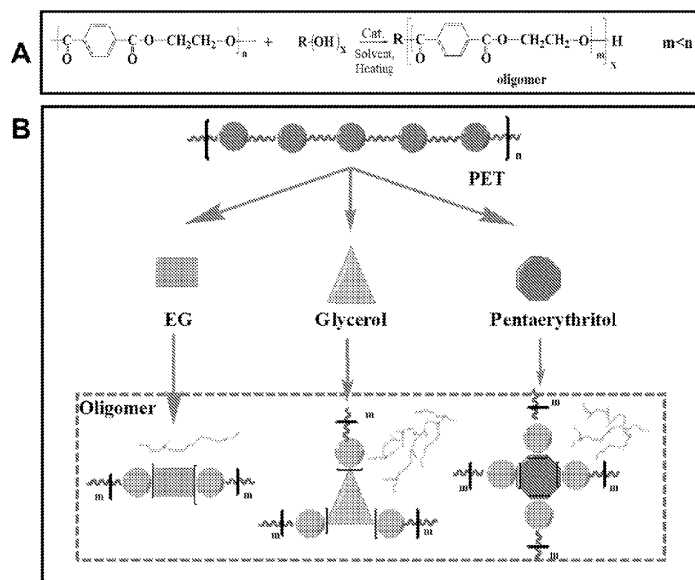


FIG. 1

(57) Abstract: Disclosed herein is a method of partially depolymerising a depolymerisable condensation polymer, the method requiring the steps of forming a mixture comprising a depolymerisable condensation polymer, a polar aprotic solvent, a catalyst and a cleaving agent, where the latter is a polyol compound. The mixture is then heated to a temperature from greater than 150 °C to less than 200 °C and the depolymerisation reaction is allowed to take place for a period of time to provide oligomers derived from the depolymerisable condensation polymer.

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