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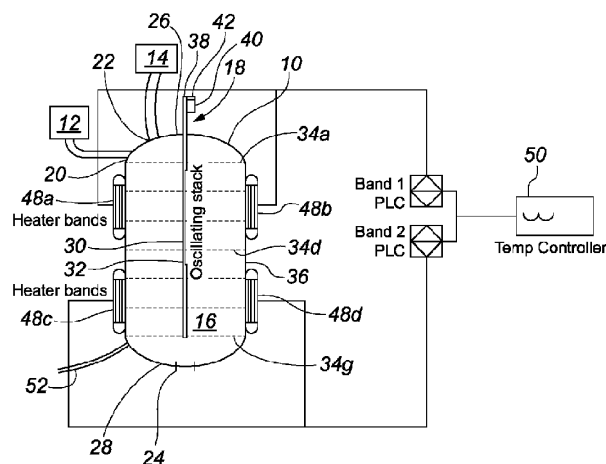


Fig. 1

(57) Abstract: A method to dissolve a polymer in a solvent in a process for the removal of additives in plastics, in which the polymer and solvent are combined in a reactor vessel having a stack of perforated discs which are oscillated. The linear motion of the stack speeds up dissolution time to minutes rather than hours and the required polymer to solvent ratio can be increased to 0.3 to 10% wt addition. The reactor vessel can be heated with pressure remaining at atmospheric. The method lends itself to commercial scale processing with reactor vessels of 1,000 litres and greater.

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