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(54) Title: NON-CORROSIVE PROCESS FOR CLEANING A RECYCLABLE MATERIAL

(57) Abstract: The invention relates to a non-corrosive process for cleaning a recyclable material comprising the following steps: (a) providing a contaminated recyclable material; (b) treating the contaminated recyclable material at a temperature in the range of from 45- 30 °C with a solution that contains one or more polyols to remove contaminants from the contaminated recyclable material, wherein the one or more polyols is (are) present in an amount of at least 15 wt.%, based on the total weight of the solution, thereby forming a liquid 10 mixture which comprises one or more polyols, contaminants removed from the recyclable material, and treated recyclable material; (c) separating at a temperature in the range 10-55 °C at least part of the recyclable material as obtained in step (b) from the liquid mixture as obtained in step (b); (d) allowing at least part of the remaining liquid mixture as obtained in step (c) to phase-I separate into a polyol phase and a phase which contains contaminants removed from the contaminated recyclable material; (e) recovering the polyol phase as obtained in step (d); (f) recovering the phase which contains contaminants removed from the recyclable material as obtained in step (d); and (g) recovering the separated recyclable material as obtained in step (c).



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