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(54) Title: PROCESS FOR THE RECYCLING OF EXPANDED POLYSTYRENE

(57) Abstract: The invention relates to an enhanced process for the recycling of expanded polystyrene. Said process essentially comprises the reduction in volume of expanded polystyrene by means of dissolution in a solvent, separation of the insoluble components, selective precipitation of the polystyrene with an anti-solvent, separation, drying and extrusion of the precipitated polystyrene, recovery by distillation and recycling of the solvent. The process is characterized in that the anti-solvent is a butanol selected from n-butanol, iso-butanol or sec-butanol and the solvent is dimethyl carbonate, alone or in a mixture containing up to 25% by weight of butanol.

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