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(54) Title: PROCESSES FOR THE PURIFICATION OF HIGHER DIAMONDODS AND COMPOSITIONS COMPRISING SUCH DIAMONDODS

(57) Abstract: Disclosed are processes for the recovery and purification of higher diamondoids from a hydrocarbonaceous feed-stock. Specifically disclosed is a multi-step recovery process for obtaining diamondoid compositions enhanced in tetramantane components and other higher diamondoid components. Also disclosed are compositions comprising at least about 10 weight percent of non-ionized tetramantane components and other higher diamondoid components and at least about 0.5 weight percent of non-ionized pentamantane components and other higher diamondoid components based on the total weight of diamondoid components present.