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(54) Title: PROCESS FOR MAKING ETHANOLAMINES, POLYETHYLENIMINE AND AMMONIA BASED ON NON-FOSSIL ENERGY

(57) Abstract: Ethanolamines, polyethylenimine and ammonia having a low molar share of deuterium, a process for making ethanolamines, polyethylenimine and ammonia based on non-fossil energy, the use of the molar share of deuterium in hydrogen and downstream compounds based on hydrogen for tracing the origin of preparation of hydrogen and downstream compounds based on hydrogen, and a process for tracing the origin of preparation of hydrogen and downstream compounds based on hydrogen by determining the molar share of deuterium in hydrogen and said downstream compounds based on hydrogen, applications of the polyethylenimine and the use of the polyethylenimine, and the use of the ethanolamines, preferably monoethanolamine and/or diethanolamine, or the polyethylenimine as liquid or solid CO₂ absorbents in CO₂ capturing processes.