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(54) Title: RESIN COATED PROPPANTS AND PROCESS FOR THE PREPARATION THEREOF

(57) **Abstract:** The present invention provides a process for preparing resin coated highly spherical proppants of sizes 12/20 and 20/40 US mesh by sintering the calcined bauxite and then coating with resol type phenolic resin comprising phenol, m-cresol and formaldehyde. Coating is done without using any coupling or partitioning agent. The resin coated proppants prepared by the method of the present invention are useful in hydraulic fracturing of oil and gas producing formations. The prepared proppants have high acid resistance towards 3% HF-12% HC1 mixture and have high crush resistance (upto 15000 psi) as per API specifications.