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(54) Title: GAS PHASE PRODUCTION OF POLYDIENES			
(57) Abstract			
A process for producing polybutadiene or polyisoprene in a gas phase reactor by continuously introducing a stream of butadiene or isoprene monomer and optionally an inert gas into a polymerization zone while maintaining the temperature within the polymerization zone below the dew point temperature of the monomer present in said polymerization zone in the presence of a rare earth catalyst and in the presence of inert particulate material.			