

ABSTRACT

**METHOD FOR FEEDING A LIQUID CATALYST TO A
FLUIDIZED BED POLYMERIZATION REACTOR**

For gas phase polymerization reactions in the presence of an unsupported polymerization catalyst, there is provided a process for introducing a liquid catalyst so as to provide a resin particle lean zone such that the average particle size of the resin produced ranges from about 0.01 to about 0.06 inches.

