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(54) **Title:** ALUMINOXANE CATALYST ACTIVATORS CONTAINING CARBOCATION AGENTS, AND USE THEREOF IN POLYOLEFIN CATALYSTS

(57) **Abstract:** This invention relates to an activator composition comprising (i) an organoaluminum compounds; (ii) a carbocation compound of the formula $R^1(X)_n$; wherein R^1 is a hydrocarbyl; n is from 1 to the number of possible substitutions of the hydrocarbyl group and each X is a labile leaving group; and (iii) an aluminoxane. The activator composition may also contain a carrier support. This invention also provides a catalyst composition comprising the activator composition described above and a transition metal component. This invention also provides methods of polymerizing monomer comprising carrying out such polymerization in the presence of one or more catalyst composition according to this invention.

