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(54) Title: ETHYLENE-BASED COPOLYMERS, LUBRICATING OIL COMPOSITIONS CONTAINING THE SAME, AND METHODS FOR MAKING THEM

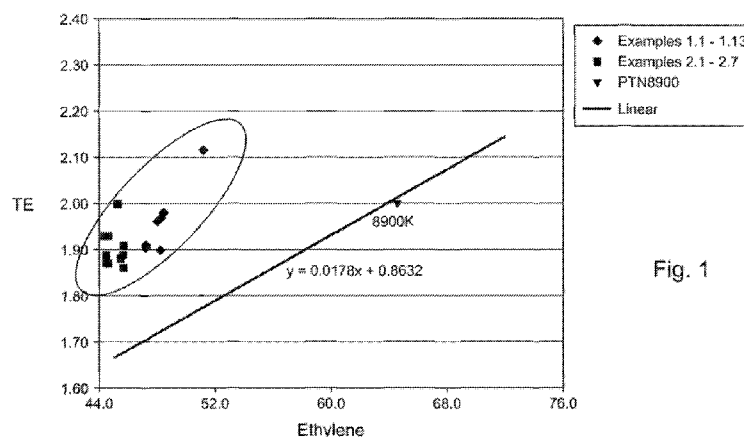


Fig. 1

(57) Abstract: Provided are ethylene-based copolymers, methods of preparing the same, lubricating oil compositions including the same, methods for preparing such lubricating oil compositions, and end uses for such ethylene-based copolymers and lubricating oil compositions. The ethylene-based copolymers may include less than about 80 wt% of units derived from ethylene and one or more alpha-olefin comonomers having 3 to 20 carbon atoms. The ethylene-based copolymers have a melting peak (T_m), as measured by DSC, of 800C or less, and a polydispersity index of about 2.8 or less. In some embodiments, the ethylene-based copolymers have an intramolecular composition distribution of about 50 wt% or less and/or an intermolecular composition distribution of about 50 wt% or less.