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A b s t r a c t

Metallocene Adduct, Its Preparation and Its Application in Olefin Polymerization

This invention relates to an three-constituent adduct of a metallocene · an ether · an metal halide having the general formula of $\text{Cp}'\text{MQ}_2 \cdot \text{RXR}' \cdot n\text{M}'\text{Q}_{1/n}$, where Cp' is a substituted or an unsubstituted dicyclopentadienyl, M is 5 zirconium or titanium, RXR' is tetrahydrofuran or diethylether, M' is alkali metal or alkali earth metal, $n = 1$ or 2 . The adduct can be exposed to air for several hours or stored in nitrogen atmosphere for a long period of time, which is prepared by means of a simple and convenient process without further separation and purification and used directly as a catalyst for 10 polymerization of olefins.

Figure 1 is a spectrogram determined by ^1H -NMR to the structure of the adduct according to the present invention.