

**PHOSPHINYL AMIDINE COMPOUNDS, METAL COMPLEXES, CATALYST SYSTEMS,
AND THEIR USE TO OLIGOMERIZE OR POLYMERIZE OLEFINS**

ABSTRACT

N²-phosphinyl amidine compounds, N²-phosphinyl amidinates, N²-phosphinyl amidine metal salt complexes, N²-phosphinyl amidinate metal salt complexes are described. Methods for making N²-phosphinyl amidine compounds, N²-phosphinyl amidinates, N²-phosphinyl amidine metal salt complexes, and N²-phosphinyl amidinate metal salt complexes are also disclosed. Catalyst systems utilizing the N²-phosphinyl amidine metal salt complexes and N²-phosphinyl amidinate metal salt complexes are also disclosed along with the use of the N²-phosphinyl amidine compounds, N²-phosphinyl amidinates, N²-phosphinyl amidine metal salt complexes, and N²-phosphinyl amidinate metal salt complexes for the oligomerization and/or polymerization of olefins.

Figure 1