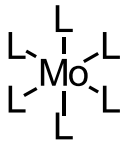
CLAIMS

1. A metal coordination complex comprising molybdenum(IV) or molybdenum(III),

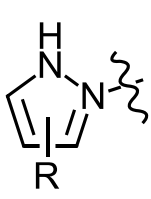
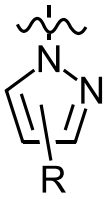
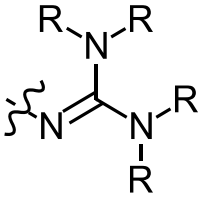
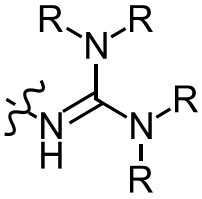
wherein the metal coordination complex has a structure of Formula (I):



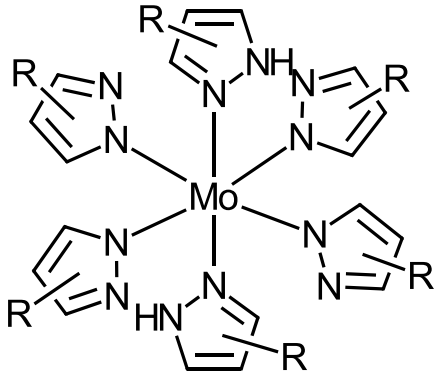
(I) ,

wherein L is independently selected from the group consisting of pyrazolo, pyrazolato, guanidino, and iminato, and

wherein the metal coordination complex comprises less than 5% of halogen and carbonyl.

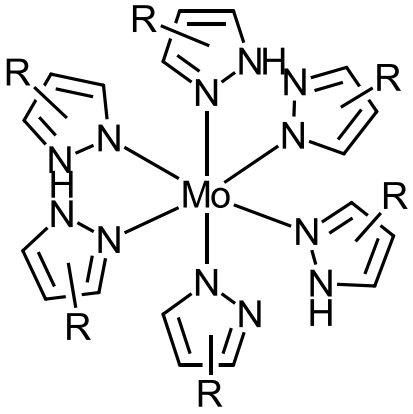
2. The metal coordination complex of claim 1, wherein L is independently selected from the group consisting of  ,  ,  , and  , and R is an unsubstituted or substituted C_1-C_{10} alkyl group.

3. The metal coordination complex of claim 1, wherein the structure of Formula (I) is selected from the group consisting of



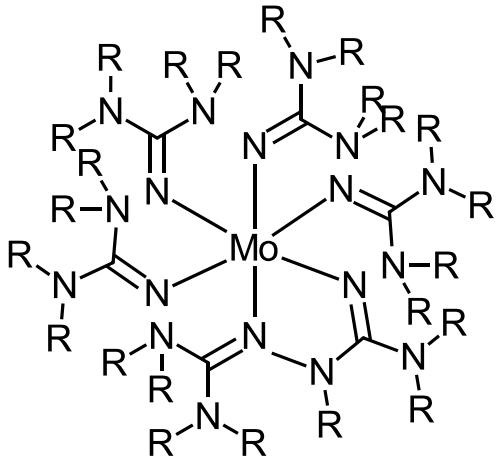
(Ia)

,



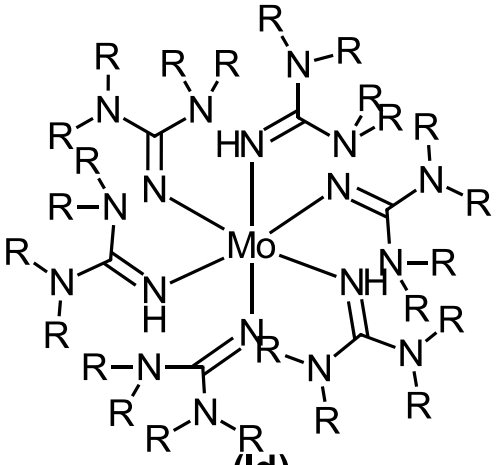
(Ib)

,



(Ic)

, and



(Id)

.