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ABSTRACT: Stable cyclic (alkyl)(amino) carbenes as ligands for transition metal catalysts

Tech ID: 29604 / UC Case 2005-511-0

ABSTRACT

Researchers at the University of California, Riversive have developed stable carbene ligands that have a carbene center flanked by a quaternary carbon and an amino group, and having utility in the preparation of various catalysts.

The catalysts of the present invention are useful in catalyzing a variety of synthetic organic reactions including amine arylation reactions, Suzuki coupling reactions (aryl-aryl or aryl-alkyl coupling reactions), and α -arylation reactions. Still other reactions that can benefit from the above-noted complexes include, for example, hydroformylation (of alkenes and alkynes), hydrosilylation (of alkenes, alkynes, ketones and aldehydes), metathesis (olefin(RC, CM, ROM, ROMp) ene-yne), carbonylation, hydroarylation and hydroamination.

PATENT STATUS

Country	Туре	Number	Dated	Case
United States Of America	Issued Patent	7,312,331	12/25/2007	2005-511

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OTHER INFORMATION

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