

Title (en)

METHOD OF FORMING A CARBON-CARBON OR CARBON-HETEROATOM LINKAGE

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER KOHLENSTOFF-KOHLENSTOFF ODER KOHLENSTOFF-HETEROA

Title (fr)

PROCEDE DE FORMATION D UNE LIAISON CARBONE-CARBONE OU CARBONE-HETEROATOME

Publication

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Application

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Abstract (en)

[origin: US2005234239A1] The invention relates to a method of creating a carbon-carbon or carbon-heteroatom linkage by reacting an unsaturated compound bearing a leaving group and a nucleophilic compound. More specifically, the invention relates to the creation of a carbon-nitrogen linkage involving the arylation of nitrogenous organic derivatives. The inventive method consists in creating a carbon-carbon or carbon-heteroatom linkage by reacting an unsaturated compound bearing a leaving group and a nucleophilic compound providing a carbon atom or a heteroatom (HE) capable of being substituted for the leaving group, thereby creating a C-C or C-HE linkage. The invention is characterised in that the reaction is carried out in the presence of an effective quantity of a catalyst based on copper and at least one ligand comprising at least one imine function and at least one additional nitrogen atom as chelating atoms

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