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(54) Title: TITANIUM COMPOUND AND PROCESS FOR ASYMMETRIC CYANATION OF IMINES

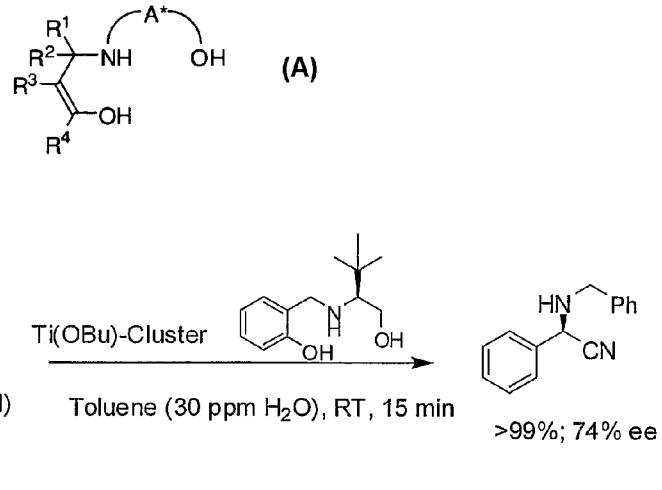

FIG. 3

(57) Abstract: The present invention relates to titanium catalysts for asymmetric synthesis reactions produced by bringing a reaction mixture obtained by contacting water and a titanium alkoxide into contact with an optically active ligand represented by the general formula (a), wherein R^1, R^2, R^3, and R^4 are independently a hydrogen atom, an alkyl group, or the like, and A* represents a group with two or more carbon atoms having an asymmetric carbon atom or axial asymmetry. The invention further relates to a process for asymmetric cyanation of imines, wherein the process comprises reacting an imine with a cyanating agent in the presence of the titanium catalyst.

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