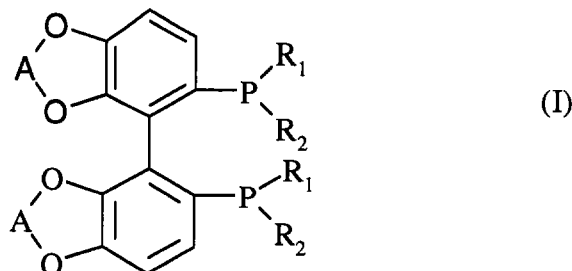


ABSTRACT

The invention relates to novel diphosphines, in optically pure or racemic form, of formula (I):

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in which:

- R_1 and R_2 are a (C_5 - C_7)cycloalkyl group, an optionally substituted phenyl group or a 5-membered heteroaryl group; and
- 10 - A is (CH_2 - CH_2) or CF_2 .

The invention further relates to the use of a compound of formula (I) as a ligand for the preparation of a metal complex useful as a chiral catalyst in asymmetric catalysis, and to the chiral metal catalysts comprising at least one ligand of formula (I).

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