

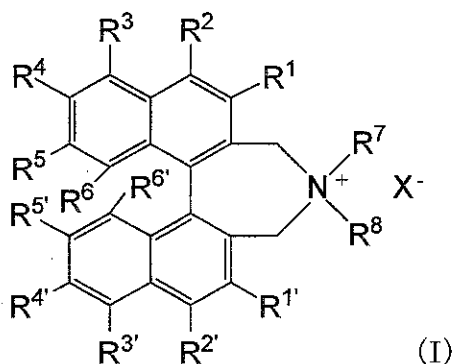
Optically active quaternary ammonium salt having axial asymmetry and process for producing α -amino acid and derivative thereof with the same

ABSTRACT

5

The present invention provides a compound of the following formula (I) below. This compound (I) can be produced by reacting a 2,2'-dimethylene bromide-1,1'-binaphthyl derivative, which can be produced by a relatively small number of processes, with an easily available secondary amine. This compound (I) is useful as a chiral phase-transfer catalyst.

15



(no suitable figure)