



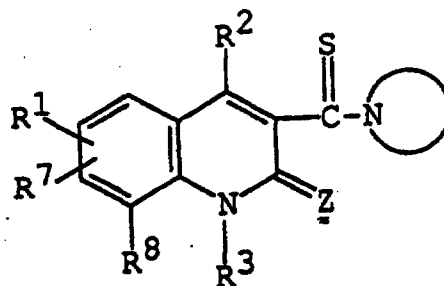
## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                                                                                                                               |                                                    |
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## (54) Title: QUINOLINE DERIVATIVES AS IMMUNOMODULATORS

## (57) Abstract

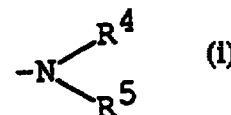
Quinoline derivatives of formula (I), wherein R<sup>1</sup> is hydrogen, halogen, lower alkyl, etc., R<sup>2</sup> is hydroxy or protected hydroxy, R<sup>3</sup> is alkyl, etc., (a) is a group of formula (i) in which R<sup>4</sup> is lower alkyl, alkenyl, lower alkoxy(lower)alkyl, cyclo(lower)alkyl or lower



(I)



(a)



(i)

alkoxy(lower)alkoxy(lower)-alkyl, and R<sup>5</sup> is aryl which may have suitable substituent(s) or heterocyclic group), etc., R<sup>7</sup> is hydrogen or halogen, R<sup>8</sup> is hydrogen or lower alkyl, etc., and Z is O or S, and a pharmaceutically acceptable salt thereof which are useful as a medicament.