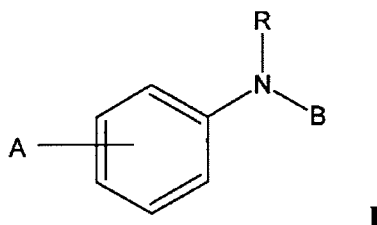


Abstract:

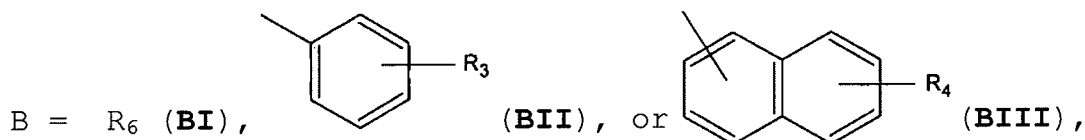
The invention relates to a process for increasing the oxidation stability of biodiesel, in which at least one aging stabilizer of the structure **I**



where:

R = hydrogen, alkyl, alkenyl, alkynyl, alkoxy, alkylaryl, arylalkyl, cycloalkyl, hydroxyl or aryl group

A = R₅ (**AI**) or -NR₁R₂ (**AII**) and



where R₁, R₂, R₃, R₄, R₅ and R₆ = hydrogen, alkyl, alkenyl, alkynyl, alkoxy, alkylaryl, arylalkyl, cycloalkyl, hydroxyl or aryl group, are the same or different, and the phenyl or naphthyl structural unit in structure **I**, **BII** and **BIII** has one, two or three substituents of the R₃, R₄ and/or R₅ type,

is added to the biodiesel to be stabilized in an amount of from 5 to 20 000 ppm (w/w), to the use of these aging stabilizers to increase the oxidation stability of biodiesel, and to the correspondingly oxidation-stabilized biodiesel.