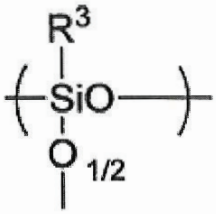


(3)



(4)

~~(~~wherein R^3 is an organic group containing an alkenyl group containing 2 to 10 carbon atoms, R^4 is hydrogen, an alkyl group containing 1 to 6 carbon atoms, an acyl group containing 2 to 6 carbon atoms, an organic group containing an alkenyl group containing 2 to 10 carbon atoms, or an aryl group containing 6 to 16 carbon atoms~~)~~.

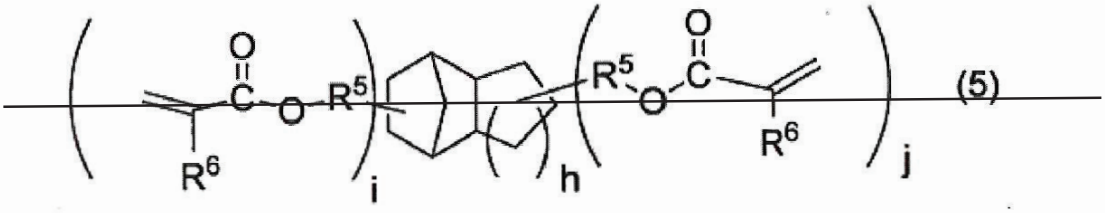
[Claim 4]

A negative photosensitive resin composition according to claim 3 wherein R^3 is an allyl group, a vinyl group, (meth)acryloyl group, or styryl group.

~~[Claim 5]~~

~~A negative photosensitive resin composition according to any one of claims 1 to 4 wherein the compound (c) having at least 1 group containing an α,β-unsaturated carboxylate ester structure is a compound selected from general formulae (5) to (10):~~

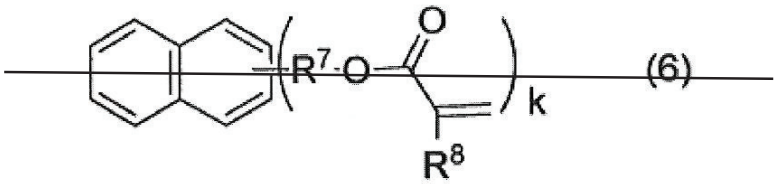
~~[Chemical formula 3]~~



(5)

~~[in general formula (5), R^5 is single bond, a chain aliphatic group containing 1 to 10 carbon atoms and 1 to 3 oxygen atoms, or a cyclic aliphatic hydrocarbon group containing 3 to 16 carbon atoms; the plurality of R^3 being independently the same or different; R^6 is hydrogen or methyl group, the plurality of R^6 being independently the same or different; h is an integer of 0 to 3; i and j are integer of 0 to 2, i+j being 1 to 2],~~

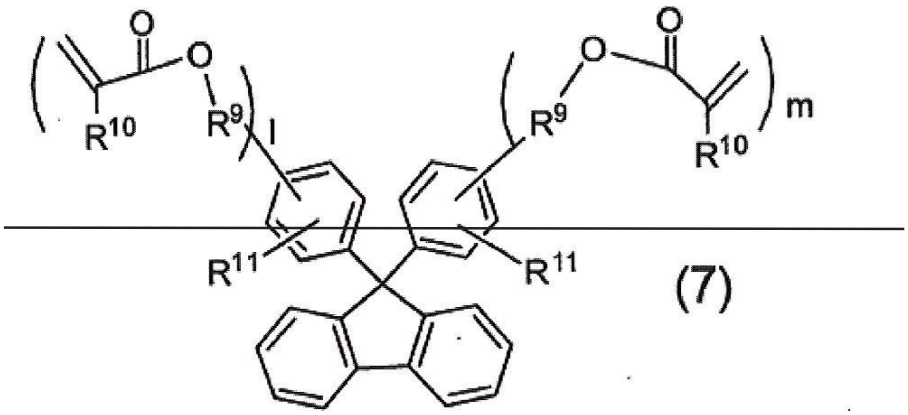
[Chemical formula 4]



(6)

[in general formula (6), R^7 is single bond, a chain aliphatic group containing 1 to 10 carbon atoms and 1 to 3 oxygen atoms, or a cyclic aliphatic hydrocarbon group containing 3 to 16 carbon atoms, the plurality of R^7 being independently the same or different, R^8 is hydrogen or methyl group, the plurality of R^8 being independently the same or different; and k is an integer of 1 to 2],

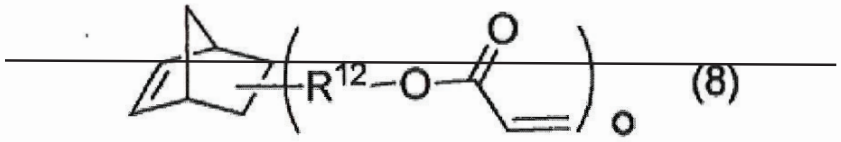
[Chemical formula 5]



(7)

[in general formula (7), R^9 is single bond, a chain aliphatic group containing 1 to 10 carbon atoms and 1 to 3 oxygen atoms, or a cyclic aliphatic hydrocarbon group containing 3 to 16 carbon atoms, the plurality of R^9 being independently the same or different; R^{10} is hydrogen or methyl group, the plurality R^{10} being independently the same or different; R^{11} is hydrogen or a chain aliphatic group containing 1 to 10 carbon atoms and 1 to 3 oxygen atoms, or a cyclic aliphatic hydrocarbon group containing 3 to 16 carbon atoms, the plurality of R^{11} being independently the same or different; and l and m are an integer of 0 to 2, l+m being 1 to 2],

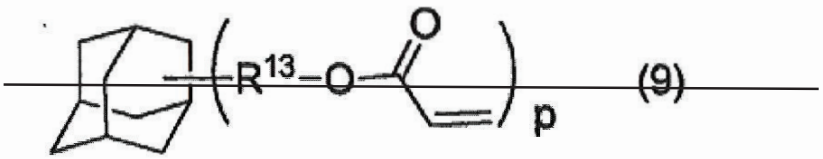
[Chemical formula 6]



(8)

~~[in general formula (8), R^{12} is single bond, a chain aliphatic group containing 1 to 10 carbon atoms and 1 to 3 oxygen atoms, or a cyclic aliphatic hydrocarbon group containing 3 to 16 carbon atoms, the plurality of R^{11} being independently the same or different; and o is an integer of 1 to 2],~~

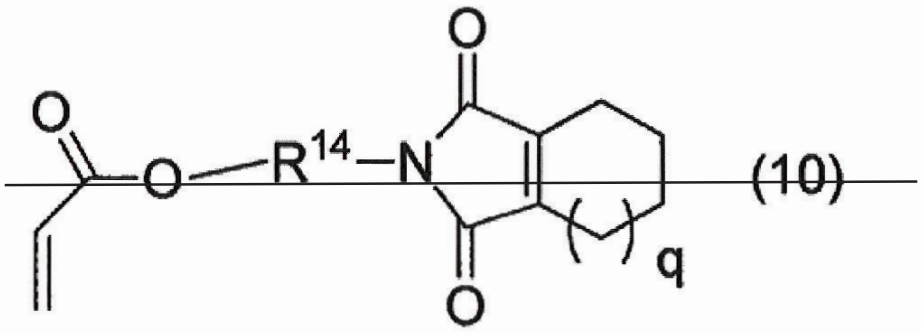
~~[Chemical formula 7]~~



(9)

~~[in general formula (9), R^{13} is single bond, a chain aliphatic group containing 1 to 10 carbon atoms and 1 to 3 oxygen atoms, or a cyclic aliphatic hydrocarbon group containing 3 to 16 carbon atoms, the plurality of R^{12} being independently the same or different; and p is an integer of 1 to 2],~~

~~[Chemical formula 8]~~

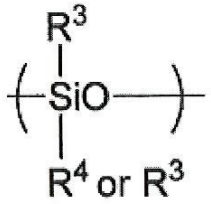


(10)

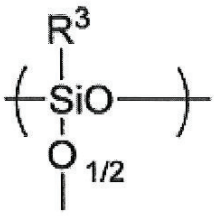
~~[in general formula (10), q is an integer of 0 to 3 and R^{14} is a chain aliphatic group containing 1 to 10 carbon atoms and 1 to 3 oxygen atoms].~~

[Claim ~~6~~5]

A negative photosensitive resin composition according to any one of claims ~~1~~2 to ~~5~~4 wherein R^1 of the polysiloxane compound



(3)



(4)

wherein R^3 is an organic group containing an alkenyl group containing 2 to 10 carbon atoms, R^4 is hydrogen, an alkyl group containing 1 to 6 carbon atoms, an acyl group containing 2 to 6 carbon atoms, an organic group containing an alkenyl group containing 2 to 10 carbon atoms, or an aryl group containing 6 to 16 carbon atoms.

[Claim 4]

A negative photosensitive resin composition according to claim 3 wherein R^3 is an allyl group, a vinyl group, (meth)acryloyl group, or styryl group.

[Claim 5]

A negative photosensitive resin composition according to any one of claims 2 to 4 wherein R^1 of the polysiloxane compound