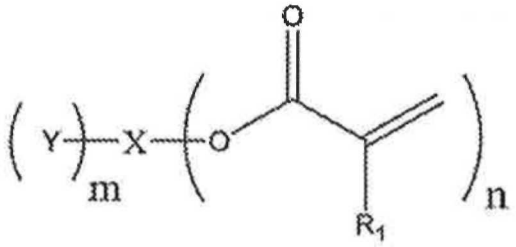
Claims

[Claim 1] An ink, comprising:

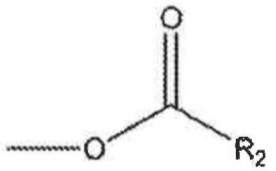
a compound represented by general formula (1) below,



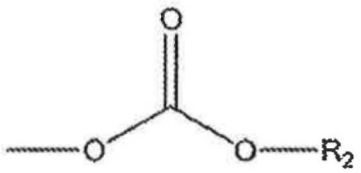
(1)

where in the formula above, R_1 represents a hydrogen atom or a methyl group, n represents an integer of 2 or greater, a plurality of R_1 may be same as or different from each other, X represents a hydrocarbon group having 2 to 10 carbon atoms, Y represents a tertiary hydroxyl group, or a group having an ester structure, and m represents an integer of 1 or greater,

wherein Y in the general formula (1) is a group represented by general formula (2) below, or general formula (3) below, or both thereof,



(2)



(3)

where in the formulae above, R_2 represents a hydrocarbon group having 1 to 15 carbon atoms,

wherein R_2 in the general formula (2) or (3) is a group represented by general formula (4) below,

$-(CH_2)aCH_3$ (4)

where in the formula above, a represents an integer of from 0 to 1.

[Claim 4] The ink according to any one of claims 1 to 3,

wherein n in the compound represented by the general formula (1) is 2.

[Claim 5] The ink according to any one of claims 1 to 4,

wherein in the compound represented by the general formula (1),

$n+m \leqq 4$.

[Claim 6] The ink according to any one of claims 1 to 5,

wherein a viscosity of the compound represented by the general formula (1) at 25°C is 20 mPa • s or lower.

[Claim 7] An ink cartridge, comprising:

the ink according to any one of claims 1 to 6 contained therein.

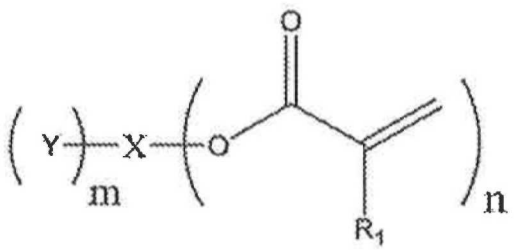
[Claim 8] An inkjet recording apparatus, comprising:

the ink cartridge according to claim 7 mounted thereon.

[Claim 9] A printed matter, comprising:

a print recoreded with the ink according to any one of claims 1 to 6.

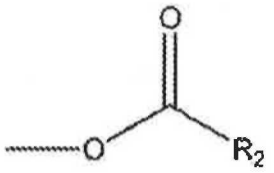
[Claim 10] A photopolymerizable compound represented by general formula (1) below,



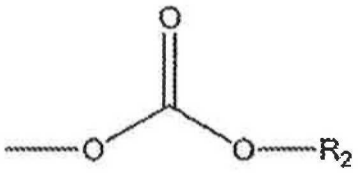
(1)

where in the formula above, R_1 represents a hydrogen atom or a methyl group, n represents an integer of 2 or greater, a plurality of R_1 may be same as or different from each other, X represents a hydrocarbon group having 2 to 10 carbon atoms, Y represents a tertiary hydroxyl group, or a group having an ester structure, and m represents an integer of 1 or greater,

wherein Y in the general formula (1) is a group represented by general formula (2) below, or general formula (3) below, or both thereof,



(2)



(3)

where in the formulae above, R_2 represents a hydrocarbon group having 1 to 15 carbon atoms,

wherein R_2 in the general formula (2) or (3) is a group represented by general formula (4) below,

$$-(CH_2)aCH_3 \quad (4)$$

where in the formula above, a represents an integer of from 0 to 1.

[Claim 13] The photopolymerizable compound according to any one of claims 10 to 12,

wherein n in the general formula (1) is 2.

[Claim 14] The photopolymerizable compound according to any one of claims 10 to 13,

wherein in the general formula (1), $n+m \leqq 4$.

[Claim 15] The photopolymerizable compound according to any one of claims 10 to 14,

wherein a viscosity of the compound represented by the general formula (1) at 25°C is 20 mPa • s or lower.

[Claim 16] A photocurable composition, comprising:

the photopolymerizable compound according to any one of claims 10 to

15.

[Claim 17] A three-dimensional object formation material, comprising:

the photocurable composition according to claim 16.

[Claim 18] A three-dimensional object produced by curing the three-dimensional object formation material according to claim 17.