pyrithione, 4,5-dichloro- 2-n-octyl-4-isothiazoline-3-one, triphenylboron·amine complex, dichloro-N-((dimethylamino)sulfonyl)fluoro-N-(p-tolyl)methane sulfeneamide, 2-(p-chlorophenyl)-3-cyano-4-bromo-5-trifluoromethylpyrrol, copper, N,N-dimethyldichlorophenyl urea, 2,4,6-trichlorophenyl maleimide, 2-methylthio-4-tert-butylamino-6-cyclopropyl-S-triazine, 2,4,5,6-tetrachloroisophthalonitrile, bisdimethyldithiocarbamoyl zinc ethylene bisdithiocarbamate, chloromethyl-n-octyldisulfide, N,N'-dimethyl-N'-phenyl-(N-fluorodichloromethylthio)sulfamide, tetraalkyl thiuram disulfide,zinc dimethyldithio carbamate,zinc ethylene bisdithio carbamate, 2,3-dichloro-N-(2',6'-diethylphenyl)maleimide, and 2,3-dichloro-N-(2'-ethyl-6'-methylphenyl)maleimide.

5. The antifouling coating composition according to claim 1, which further comprises copper pyrithione or zinc pyrithione as the antifouling agent (B).

~~5~~6. The antifouling coating composition according to any one of claims 1 to ~~4~~5, wherein the metal salt bond-containing copolymer (a1) is a copolymer of two or more kinds of monobasic acid metal (meth)acrylates each represented by the general

formula (IV):

$CH_2=C(R^2)-COO-M-O-COR^1$ (IV)

[In the formula (IV), M is zinc or copper, R^1 is an organic

group, and R^2 is a hydrogen atom or a methyl group].

67. The antifouling coating composition according to any one of claims 1 to 56, wherein the metal salt bond-containing copolymer (a1) is a copolymer containing a component unit derived from a monobasic acid metal (meth)acrylate represented by the general formula (IV):

$CH_2=C(R^2)-COO-M-O-COR^1$ (IV)

[In the formula (IV), M is zinc or copper, R^1 is an organic group,and $R^2$is a hydrogen atom or a methyl group],and a component unit derived from at least one unsaturated monomer selected from the group consisting of an alkyl (meth)acrylate, an alkoxyalkyl (meth)acrylate and a hydroxyalkyl(meth)acrylate.

78. The antifouling coating composition according to any one of claims 1 to 67, wherein in the metal salt bond-containing copolymer (a1), zinc and/or copper attributed to the structure of the formula (I) is contained in an amount of 0.5 to 20% by weight of the copolymer (a1).

89. The antifouling coating composition according to any one of claims 1 to 78, wherein the monomer (a21) contains at least one monomer selected from the group consisting of zinc diacrylate, zinc dimethacrylate, copper diacrylate and copper dimethacrylate.

~~9~~10. The antifouling coating composition according to any one of claims 1 to ~~8~~9, wherein the unsaturated monomer (a22) contains at least one unsaturated monomer selected from the group consisting of an alkyl (meth)acrylate, an alkoxyalkyl (meth)acrylate and a hydroxyalkyl (meth)acrylate.

~~10~~11. The antifouling coating composition according to any one of claims 1 to ~~9~~10, wherein the unsaturated monomer (a22) contains a monobasic acid metal (meth)acrylate represented by the general formula (IV):

$CH_2=C(R^2)-COO-M-O-COR^1$ (IV)

[In the formula (IV), M is zinc or copper, R^1 is an organic group, and R^2 is a hydrogen atom or a methyl group].

~~11~~12. The antifouling coating composition according to claim ~~10~~11, wherein the unsaturated monomer (a22) contains the monobasic acid metal (meth)acrylate represented by the general formula (IV) and at least one unsaturated monomer selected from the group consisting of an alkyl (meth)acrylate, an alkoxyalkyl (meth)acrylate and a hydroxyalkyl (meth)acrylate.

~~12~~13. The antifouling coating composition according to any one of claims 1 to ~~11~~12, wherein in the metal salt bond-containing

copolymer (a2), zinc and/or copper attributed to the structure of the formula (II) is contained in an amount of 0.5 to 20% by weight of the copolymer (a2).

~~13~~14. The antifouling coating composition according to any one of claims 1 to ~~12~~13, wherein the organic group R^1 in the metal salt bond-containing copolymer (a1) is an organic acid residue formed from a monobasic acid, and the organic acid residue is a saturated or unsaturated aliphatic hydrocarbon group having 2 to 30 carbon atoms, a saturated or unsaturated alicyclic hydrocarbon group having 3 to 20 carbon atoms, an aromatic hydrocarbon group having 6 to 18 carbon atoms, or a substituted group thereof.

~~14~~15. The antifouling coating composition according to any one of claims ~~5~~6, ~~6~~7, ~~10~~11 and ~~11~~12, wherein the organic group R^1 of the monobasic acid metal (meth)acrylate represented by the formula (IV) is an organic acid residue formed from a monobasic acid, and the organic acid residue is a saturated or unsaturated aliphatic hydrocarbon group having 2 to 30 carbon atoms, a saturated or unsaturated alicyclic hydrocarbon group having 3 to 20 carbon atoms, an aromatic hydrocarbon group having 6 to 18 carbon atoms, or a substituted group thereof.

~~15~~16. The antifouling coating composition according to any

one of claims 1 to ~~14~~15, wherein the monomer (a31) contains a trialkylsilyl (meth)acrylate.

~~16~~17. The antifouling coating composition according to any one of claims 1 to ~~15~~16, wherein the unsaturated monomer (a32) contains at least one unsaturated monomer selected from the group consisting of an alkyl (meth)acrylate, an alkoxyalkyl (meth)acrylate and a hydroxyalkyl (meth)acrylate.

~~17~~18. An antifouling coating film formed from the antifouling coating composition according to any one of claims 1 to ~~16~~17.

~~18~~19. A substrate with a coating film in which a surface of the substrate is coated with a coating film obtained by curing the antifouling coating composition according to any one of claims 1 to ~~16~~17.

~~19~~20. A method for producing a substrate with a coating film comprising a step of applying or impregnating the antifouling coating composition according to any one of claims 1 to ~~16~~17 to a surface of a substrate, and a step of curing the composition to form a coating film.