[Claim 13]

The method for producing an olefin polymer according to Claim 1,

wherein a solution in which the bridged metallocene compound (A) is dissolved in a hydrocarbon solvent is supplied to a polymerization system,

wherein the hydrocarbon solvent is at least one selected from butane, isobutane, cyclobutane, methylcyclopropane, pentane, isopentane, neopentane, cyclopentane, methylcyclobutane, 1,1-dimethylcyclopropane, 1,2-dimethylcyclopropane, ethylcyclopropane, hexane, 3-methylpentane, 2-methylpentane, 2,2-dimethylbutane, 2,3-dimethylbutane, cyclohexane, methylcyclopentane, 1,1-dimethylcyclobutane, 1,2-dimethylcyclobutane, 1,3-dimethylcyclobutane, ethylcyclobutane, 1,1,2-trimethylcyclopropane, 1-ethyl-1-methylcyclopropane, propylcyclopropane, isopropylcyclopropane, heptane, 2-methylhexane, 3-methylhexane, 3-ethylpentane, 2,2-dimethylpentane, 2,3-dimethylpentane, 2,4-dimethylpentane, 3,3-dimethylpentane, 2,2,3-trimethylbutane, methylcyclohexane, 1,2-dimethylpentane, 1,3-dimethylpentane, 1,2,3-trimethylbutane, cycloheptane, methylcyclohexane, 1,1-dimethylcyclopentane, 1,2-dimethylcyclopentane, 1,3-dimethylcyclopentane, ethylcyclopentane, propylcyclobutane, 1,1,2,2-tetramethylcyclopropane, 1,1,2,3-tetramethylcyclopropane, 1,1-diethylcyclopropane, 1-isopropyl-1-methylcyclopropane, 1-isopropyl-2-methylcyclopropane, 1-propyl-2-methylcyclopropane, butylcyclopropane, octane, 2-methylheptane, 3-methylheptane, 4-methylheptane, 2,2-dimethylhexane, 2,3-dimethylhexane, 2,4-dimethylhexane, 2,5-dimethylhexane, 3,3-dimethylhexane, 3,4-dimethylhexane, 3-ethylhexane, 2,2,3-trimethylpentane, 2,2,4-trimethylpentane, 2,3,3-trimethylpentane, 2,3,4-trimethylpentane, 2-methyl-3-ethylpentane, cyclooctane, methylcycloheptane, 1,1-dimethylcyclohexane, 1,2-

dimethylcyclohexane, 1,3-dimethylcyclohexane, 1,4-dimethylcyclohexane, ethylcyclohexane, 1,1,2-trimethylcyclopentane, 1,1,3-trimethylcyclopentane, 1,2,3-trimethylcyclopentane, 1,2,4-trimethylcyclopentane, 1-ethyl-1-methylcyclopentane, 1-ethyl-2-methylcyclopentane, 1-ethyl-3-methylcyclopentane, propylcyclopentane, isopropylcyclopentane, 1,2,3,4-tetramethylcyclobutane, 1,1,3,3-tetiramethylcyclobutane, 2,2,3,3-tetiramethylcyclobutane, 1,2-diethylcyclobutane, 1-butyl-2-methylcyclopropane, pentylcyclopropane, isopentylcyclopropane, nonane, 2-methyloctane, 3-methyloctane, 4-methyloctane, 2,2-dimethylheptane, 2,3-dimethylheptane, 2,4-dimethylheptane, 2,5-dimethylheptane, 2,6-dimethylheptane, 4,4-dimethylheptane, 2-ethylheptane, 3-ethylheptane, 4-ethylheptane, 2,2,3-trimethylhexane, 2,2,4-trimethylhexane, 2,2,5-trimethylhexane, 2,3,3-trimethylhexane, 2,3,4-trimethylhexane, 2,3,5-trimethylhexane, 2,4,4-trimethylhexane, 3,3,4-trimethylhexane, 3-ethyl-2-methylhexane, 3-ethyl-3-methylhexane, 4-ethyl-2-methylhexane, 4-ethyl-3-methylhexane, 2,2,3,3-tetramethylpentane, 2,2,3,4-tetramethylpentane, 2,2,4,4-tetramethylpentane, 2,3,3,4-tetramethylpentane, 2,2-dimethyl-3-ethylpentane, 2,2-diethylpentane, 2,3-diethylpentane, cyclononane, methylcyclooctane, ethylcycloheptane, 1,1-dimethylcycloheptane, 1,2-dimethylcycloheptane, 1,3-dimethylcycloheptane, 1,4-dimethylcycloheptane, propylcyclohexane, isopropylcyclohexane, 1-ethyl-2-methylcyclohexane, 1-ethyl-3-methylcyclohexane, 1-ethyl-4-methylcyclohexane, 1,1,2-trimethylcyclohexane, 1,1,3-trimethylcyclohexane, 1,1,4-trimethylcyclohexane, 1,2,3-trimethylcyclohexane, 1,2,4-trimethylcyclohexane, butylcyclopentane, isobutylcyclopentane, 2-cyclopentylbutane, 1,2-diethylcyclopentane, 1-isopropyl-3-methylcyclopentane, 1-methyl-2-propylcyclopentane, 2-ethyl-1,1-dimethylcyclopentane, 1,1,3,3-tetramethylcyclopentane, 1,1,3,4-

tetramethylcyclopentane, 1,2,3,4-tetramethylcyclopentane, 1,1,2,3,3-pentamethylcyclobutane, 1,2-dipropylcyclopropane, 1-hexylcyclopropane, 1-pentyl-1-methylcyclopropane, 1-pentyl-2-methylcyclopropane, decane, 2-methylnonane, 3-methylnonane, 4-methylnonane, 5-methylnonane, 2,2-dimethyloctane, 2,3-dimethyloctane, 2,4-dimethyloctane, 2,5-dimethyloctane, 2,6-dimethyloctane, 2,7-dimethyloctane, 3,3-dimethyloctane, 3,4-dimethyloctane, 3,5-dimethyloctane, 3,6-dimethyloctane, 4,4-dimethyloctane, 4,5-dimethyloctane, 3-ethyloctane, 4-ethyloctane, 2,2,3-trimethylheptane, 2,2,4-trimethylheptane, 2,2,5-trimethylheptane, 2,2,5-trimethylheptane, 2,2,6-trimethylheptane, 2,3,3-trimethylheptane, 2,3,4-trimethylheptane, 2,3,5-trimethylheptane, 2,3,6-trimethylheptane, 2,4,4-trimethylheptane, 2,4,5-trimethylheptane, 2,4,6-trimethylheptane, 2,5,5-trimethylheptane, 2-methyl-3-ethylheptane, 2-methyl-4-ethylheptane, 3-ethyl-3-methylheptane, 3-ethyl-4-methylheptane, 3-ethyl-5-methylheptane, 3-methyl-4-ethylheptane, 5-ethyl-2-methylheptane, 3,3,4-trimethylheptane, 3,3,5-trimethylheptane, 3,4,4-trimethylheptane, 3,4,5-trimethylheptane, 4-propylheptane, 4-isopropylheptane, 2,2,3,3-tetramethylhexane, 2,2,3,4-tetramethylhexane, 2,2,3,5-tetramethylhexane, 2,2,4,4-tetramethylhexane, 2,2,4,5-tetramethylhexane, 2,2,5,5-tetramethylhexane, 2,3,3,4-tetramethylhexane, 2,3,3,5-tetramethylhexane, 2,3,4,4-tetramethylhexane, 2,3,4,5-tetramethylhexane, 3,3,4,4-tetramethylhexane, 2,2-dimethyl-3-ethylhexane, 2,3-dimethyl-3-ethylhexane, 2,3-dimethyl-4-ethylhexane, 2,4-dimethyl-4-ethylhexane, 2,5-dimethyl-3-ethylhexane, 3,3-dimethyl-4-ethylhexane, 3,4-dimethyl-3-ethylhexane, 3-ethyl-2,4-dimethylhexane, 4-ethyl-2,2-dimethylhexane, 3,3-diethylhexane, 3,4-diethylhexane, 2,2,3,3,4-pentamethylpentane, 2,2,3,4,4-pentamethylpentane, 2,2,3-trimethyl-3-ethylpentane, 2,2,4-trimethyl-3-ethylpentane, 2,3,4-

trimethyl-3-ethylpentane, 2,4-dimethyl-3-isopropylpentane, 2-methyl-3-3-diethylpentane, 4-ethyl-4-methylpentane, cyclodecane, methylcyclononane, 1,5-dimethylcyclooctane, ethylcyclooctane, cycloheptane, 1,1,2,3-tetramethylcyclohexane, 1,1,3,3-tetramethylcyclohexane, 1,1,3,5-tetramethylcyclohexane, 1,1,4,4-tetramethylcyclohexane, 1,2,2,4-tetramethylcyclohexane, 1,2,3,4-tetramethylcyclohexane, 1,2,3,5-tetramethylcyclohexane, 1,2,4,5-tetramethylcyclohexane, butylcyclohexane, 1,3-diethylcyclohexane, 1,4-diethylcyclohexane, 1-ethyl-2-propylcyclohexane, 1,3-dimethyl-5-ethylcyclohexane, 1-ethyl-2,3-dimethylcyclohexane, 1-ethyl-2,4-dimethylcyclohexane, 1-isopropyl-1-methylcyclohexane, 1-isopropyl-2-methylcyclohexane, 1-isopropyl-3-methylcyclohexane, 1-isopropyl-4-methylcyclohexane, 1-methyl-2-propylcyclohexane, 1-methyl-3-propylcyclohexane, 2-ethyl-1,3-dimethylcyclohexane, sec-butylcyclohexane, tert-butylcyclohexane, isobutylcyclohexane, 1,2,3,4,5-pentamethylcyclopentane, 1,2,3-trimethyl-4-ethylcyclopentane, 1,2-dimethyl-3-isopropylcyclopentane, 1-ethyl-3-isopropylcyclopentane, 1-methyl-2,4-diethylcyclopentane, 1-methyl-2-butylcyclopentane, 1-methyl-3-tert-butylcyclopentane, 1-methyl-3-isobutylcyclopentane, 2-isopropyl-1,3-dimethylcyclopentane, 2-cyclopentylpentane, 2-methylbutylcyclopentane, isopentylcyclopentane, pentylcyclopentane, 2-ethyl-1-methyl-3-propylcyclobutane, 1,1,2-trimethyl-3-isobutylcyclopropane, 1,1-dimethyl-2-pentylcyclopropane, 1,2-dimethyl-1-pentylcyclopropane, 1,2-dimethyl-3-pentylcyclopropane, 1-ethyl-2-pentylcyclopropane, 1-hexyl-2-methylcyclopropane, 1-methyl-2-(1-methylpentyl)cyclopropane, and 1-methyl-2-(3-methylpentyl)cyclopropane.