Claims

[Claim 1]

A method of preparing a combustible oil, the method comprising adding and mixing:

a petroleum-based combustible oil;

a water having an oxidation-reduction potential of -300 mV or lower, a pH of 9.0 or higher, and a dissolved hydrogen concentration of 0.8 ppm or higher;

a fatty oil; and

an activated carbon

to obtain a mixture, and

removing solids from the mixture to obtain an oil phase as a product oil.

[Claim 2]

The method of preparing a combustible oil according to claim 1, wherein the amount of the water added is 5 to 60% by volume relative to 100% of the total volume of the petroleum-based combustible oil and the water.

[Claim 3]

The method of preparing a combustible oil according to claim 1 or 2, wherein the adding and mixing to obtain the mixture further comprises adding magnesium chloride.

[Claim 4]

The method of preparing a combustible oil according to claim 3, wherein the amount of the magnesium chloride added is 0.005 to 0.5% (w/v) in terms of an anhydrous equivalent, relative to the water.

[Claim 5]

The method of preparing a combustible oil according to any one of claims 1 to 4, wherein the fatty oil comprises a vegetable oil.

[Claim 6]

The method of preparing a combustible oil according to any one of claims 1 to 5, wherein the fatty oil comprises a glyceride of an unsaturated fatty acid.

[Claim 7]

The method of preparing a combustible oil according to any one of claims 1 to 6, wherein the amount of the fatty oil added is 0.5 to 10 parts by volume relative to 100 parts of the total volume of the water and the petroleum-based combustible oil.

[Claim 8]

The method of preparing a combustible oil according to any one of claims 1 to 7, wherein the activated carbon is a particulate activated carbon having a particle size smaller than 16 mesh.

[Claim 9]

The method of preparing a combustible oil according to any one of claims 1 to 8, wherein the amount of the activated carbon added is 0.1 to 5% (w/v) relative to the total volume of the water and the petroleum-based combustible oil.

[Claim 10]

The method of preparing a combustible oil according to any one of claims 1 to 9, wherein the adding and mixing to obtain the mixture further comprises adding a carbon nanotube.

[Claim 11]

The method of preparing a combustible oil according to any one of claims 1 to 10, wherein the adding and mixing to obtain the mixture comprises adding a partial mixture comprising a portion of the petroleum-based combustible oil and the activated carbon.

[Claim 12]

The method of preparing a combustible oil according to claim 11, wherein the water, the partial mixture, and the fatty oil are added and mixed, and then the remainder of the petroleum-based combustible oil is added and mixed stepwise.

[Claim 13]

The method of preparing a combustible oil according to any one of claims 1 to 12, wherein the obtaining the oil phase as the product oil further

comprises separating the oil phase and an aqueous phase to obtain the oil phase as the product oil.