# CLAIMS

[Claim 1]

A cement clinker having a total content of tricalcium aluminate ($3CaO \cdot Al_2O_3$: $C_3A$) and tetracalcium aluminoferrite ($4CaO \cdot Al_2O_3 \cdot Fe_2O_3$: $C_4AF$) calculated by Bogue's formulas of 22 mass% or more, a tricalcium silicate ($3CaO \cdot SiO_2$: $C_3S$) calculated by Bogue's formula of 60 mass% or more and an iron modulus (I.M.) of 1.3 or less.

[Claim 2]

The cement clinker according to claim 1 which has a $C_4AF$ content of 15 mass% or more.

[Claim 3]

The cement clinker according to claim 1 or 2 which has a total content of $C_3S$ and dicalcium silicate ($2CaO \cdot SiO_2$: $C_2S$) of 69 mass% or more.

[Claim 4]

A cement composition comprising the cement clinker of any one of claims 1 to 3 and gypsum.

[Claim 5]

The cement composition according to claim 4 which further comprises at least one admixture selected from the group consisting of blast furnace slag, siliceous admixture, fly ash and limestone.

[Claim 6]

A method of manufacturing a cement clinker, comprising the steps of:

preparing raw materials to achieve a total content of $C_3A$ and $C_4AF$ calculated by Bogue's formulas of 22 mass% or more and a $C_3S$ content calculated by Bogue's formula of 60 mass% or more and an iron modulus (I.M.) of 1.3 or less; and

sintering the raw materials at 1,300 to 1,400℃.

# CLAIMS

The invention claimed is:

1. A method of manufacturing a cement clinker, comprising the steps of: preparing raw materials to achieve, when sintered at 1,350°C. for 90 minutes, a total content of tricalcium aluminate ($3CaO.Al_2O_3$) and tetracalcium aluminoferrite ($4CaO.Al_2O_3.Fe_2O_3$) calculated by Bogue's formulas of 22 mass % or more and a tricalcium silicate ($3CaO.SiO_2$) content calculated by Bogue's formula of 60 mass % or more and an iron modulus (I.M.) of 1.3 or less; and sintering the raw materials at 1,300 to 1,400°C.

2. The method of manufacturing a cement clinker according to claim 1, wherein a material is prepared to have a content of tetracalcium aluminoferrite content of 15 mass % or more.

3. The method of manufacturing a cement clinker according to claim 1, wherein a material is prepared to have a total content of tricalcium silicate and dicalcium silicate ($2CaO.SiO_2$) of 69 mass % or more.

4. The method of manufacturing a cement clinker according to claim 2, wherein a material is prepared to have a total content of tricalcium silicate and dicalcium silicate ($2CaO.SiO_2$) of 69 mass % or more.

5. A method of manufacturing a cement, comprising: manufacturing a cement clinker by the method of manufacturing a cement clinker according to claim 1, and subsequently, mixing a gypsum with the cement clinker to obtain the cement.

6. A method of manufacturing a cement, comprising: manufacturing a cement clinker by the method of manufacturing a cement clinker according to claim 2, and subsequently, a

gypsum is mixed with the cement clinker to obtain the cement.

7. A method of manufacturing a cement, comprising: manufacturing a cement clinker by the method of manufacturing a cement clinker according to claim 3, and subsequently, a gypsum is mixed with the cement clinker to obtain the cement.

8. A method of manufacturing a cement, comprising: manufacturing a cement clinker by the method of manufacturing a cement clinker according to claim 4, and subsequently, a gypsum is mixed with the cement clinker to obtain the cement.