CLAIMS

[Claim 1]

An alloy material characterized by containing each of Co, Cr, Fe, and Ni in a range of 5 at% to 40 at%, Mo in a range of more than 0 at% and 8 at% or less, Ti in a range of 1 at% to 10 at%, B in a range of 0.03 at% to 0.12 at%, and at least one of Ta and Nb at 4 at% or less, or none of Ta and Nb with a remainder consisting of inevitable impurities.

[Claim 2]

The alloy material according to claim 1, characterized by containing the at least one of Ta and Nb at 4 at% or less.

[Claim 3]

The alloy material according to claim 2, characterized in that the Ti and the at least one of Ta and Nb are contained at 3 at% to 10 at% in total.

[Claim 4]

The alloy material according to any one of claims 1 to 3, characterized by containing the Co in a range of 25 at% to 38 at%, the Cr in a range of 16 at% to 23 at%, the Fe in a range of 12 at% to 20 at%, the Ni in a range of 17 at% to 28 at%, the Mo in a range of 1 at% to 7 at%, and the Ti in a range of 2 at% to 9 at%.

[Claim 5]

An alloy product using the alloy material according to any one of claims 1 to 4, characterized in that

microscopic particles having an average particle diameter of 130 nm or less are dispersed and precipitated in matrix phase crystal grains of the alloy product.

[Claim 6]

A machine device provided with the alloy product according to claim 5.