

Title (en)

FINE CRYSTALLITE HIGH-PERFORMANCE METAL ALLOY MEMBER AND METHOD FOR MANUFACTURING SAME

Title (de)

FEINKRISTALLINES HOCHLEISTUNGS-METALLLEGIERUNGSELEMENT UND VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)

COMPOSANT D'ALLIAGE DE MÉTAL HAUTE PERFORMANCE EN CRISTALLITE FINE ET PROCÉDÉ POUR FABRIQUER CELUI-CI

Publication

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Application

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Abstract (en)

Provided by the present invention are a fine crystallite high-function metal alloy member, a method for manufacturing the same, and a business development method thereof, in which a crystallite of a metal alloy including a high-purity metal alloy whose crystal lattice is a face-centered cubic lattice, a body-centered cubic lattice, or a close-packed hexagonal lattice is made fine with the size in the level of nanometers (10⁻⁹ m to 10⁻⁶ m) and micrometers (10⁻⁶ m to 10⁻³ m), and the form thereof is adjusted, thereby remedying drawbacks thereof and enhancing various characteristics without losing superior characteristics owned by the alloy.

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