

ALLNAMES:(H.C. Starck Tungsten)

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1. [20220267882](#) HARD METAL HAVING TOUGHNESS-INCREASING MICROSTRUCTURE

US - 25.08.2022

Int.Class [C22C 29/08](#) Appl.No 17282062 Applicant H.C. Starck Tungsten GmbH Inventor Tino Säuberlich

The invention relates to a nanoscale or ultrafine hard metal, comprising tungsten carbide, an additional metal carbide phase that has a cubic crystal structure, and a binder metal phase. The invention further relates to a method for producing said hard metal and to the use of said hard metal to produce tools and wearing parts. The invention further relates to a component that has been produced from the described hard metal.

2. [2901979](#) POLVO DE CARBURO DE TUNGSTENO NOVEDOSO Y PRODUCCIÓN DEL MISMO

ES - 24.03.2022

Int.Class [C01B 32/949](#) Appl.No 17761500 Applicant H.C. Starck Tungsten GmbH Inventor SAEUBERLICH, Tino

Un polvo de carburo de tungsteno con - un área de superficie específica BET, determinada según la norma ASTM D 3663 de 1,8 a 2,0 m²/g; - un tamaño de cristalito c en los granos de carburo de tungsteno individuales de 75 a 100 nm, tal como se determina mediante radiografía usando difracción XRD/de rayos X, de una sola línea, el método de Scherrer, y la evaluación de transformación de pico Fourier con una muestra de tamaño de cristalito certificada por NIST como una referencia; - un promedio de tamaño de grano d, calculado por medio de la fórmula $d [nm] = 0,38 [(m^2 \cdot nm)/g]/BET [m^2/g] \times 1000$ desde el área de superficie específica BET, de desde 186 nm a 217 nm; - un número medio máximo de los cristalitos, n, por grano de carburo de tungsteno, calculado de acuerdo con $n = d/c$, de 1,8 a 2,7.

3. [3512809](#) NOVEL TUNGSTEN CARBIDE POWDER AND PRODUCTION THEREOF

PT - 31.12.2021

Int.Class [C01B 32/949](#) Appl.No 177615002 Applicant H.C. STARCK TUNGSTEN GMBH Inventor4. [20210340023](#) METHOD FOR PREPARING AMMONIUM METATUNGSTATE

US - 04.11.2021

Int.Class [C01G 41/00](#) Appl.No 17311432 Applicant H.C. Starck Tungsten GmbH Inventor Julia MEESE-MARKTSCHEFFEL

The present invention relates to a process for preparing ammonium metatungstate using a reverse osmosis cell, and to a device for performing the process according to the invention.

5. [1/081013](#) METHOD FOR PREPARING AMMONIUM METATUNGSTATE

VN - 25.10.2021

Int.Class [C01G 41/00](#) Appl.No 1202103035 Applicant H.C. STARCK TUNGSTEN GMBH Inventor OLBRIICH, Armin

The present invention relates to a method for preparing ammonium metatungstate using a reverse osmosis cell and to a device for carrying out the claimed method.

6. [283744](#) METHOD FOR PREPARING AMMONIUM METATUNGSTATE

IL - 29.07.2021

Int.Class [C01G 41/00](#) Appl.No 283744 Applicant H.C. STARCK TUNGSTEN GMBH Inventor7. [1/079244](#) HARD METAL HAVING TOUGHNESS-INCREASING MICROSTRUCTURE

VN - 26.07.2021

Int.Class [B22F 5/00](#) Appl.No 1202101572 Applicant H.C. STARCK TUNGSTEN GMBH Inventor MEESE-MARKTSCHEFFEL, Juliane

The invention relates to a nanoscale or ultrafine hard metal, comprising tungsten carbide, an additional metal carbide phase that has a cubic crystal structure, and a binder metal phase. The invention further relates to a method for producing said hard metal and to the use of said hard metal to produce tools and wearing parts. The invention further relates to a component that has been produced from the described hard metal.

8. [113165901](#) METHOD FOR PREPARING AMMONIUM METATUNGSTATE

CN - 23.07.2021

Int.Class [C01G 41/00](#) Appl.No 201980081077.7 Applicant H C STARCK TUNGSTEN GMBH Inventor MEESE-MARKTSCHEFFEL JULIA

The present invention relates to a method for preparing ammonium metatungstate using a reverse osmosis cell and to a device for carrying out the claimed method.

9. [3154733](#) PROCESS FOR PRODUCING TUNGSTEN METAL POWDERS

CA - 08.07.2021



Int.Class B22F 9/20 Appl.No 3154733 Applicant H.C. STARCK TUNGSTEN GMBH Inventor SAEUBERLICH, TINO

The invention relates to a process for producing tungsten metal powders by reduction of tungsten oxide, characterized in that the properties of the metal powder obtained are continuously monitored in and during the process.

10. 113073213 FLOTATION TYPE TUNGSTEN RAW MATERIAL ALL-WET SMELTING PROCESS

CN - 06.07.2021

Int.Class C22B 34/36 Appl.No 202110191736.1 Applicant JIANGWU H.C. STARCK TUNGSTEN PRODUCTS CO., LTD. Inventor XU SHUANG

The invention discloses a flotation type tungsten raw material all-wet smelting process, and relates to the technical field of tungsten smelting. The flotation type tungsten raw material all-wet smelting process comprises the steps of tungsten mineral raw material leaching, solid-liquid separation, defoaming agent addition, sodium tungstate solution transformation and crystallization to obtain an ammonium paratungstate product, wherein the step of defoaming agent addition refers to adding at least one defoaming agent into the obtained sodium tungstate solution; the defoaming agent is dispersed in the sodium tungstate solution through a stirring and/or heating method; and the defoaming agent comprises one or more of an organic silicon defoaming agent, castor oil, aldehydes, alcohols, ketone, kerosene and tertiary amine. The flotation type tungsten raw material all-wet smelting process provided by the invention has the beneficial effects that the defoaming agent is added into the obtained sodium tungstate solution, so that the influence of a surfactant in the sodium tungstate solution on the production process can be effectively inhibited, the feed liquid conveying time is effectively shortened, a better solution purification effect is obtained, a high-quality ammonium paratungstate product is obtained, and the occurrence of production accidents can be reduced.

