

Title (en)
Precious metal article, method for manufacturing same, moldable mixture for use in manufacture of same and method for producing moldable mixture.

Title (de)
Edelmetallformkörper, Verfahren zu ihrer Herstellung, formbare Mischung für ihre Herstellung und Verfahren zur Herstellung dieser formbaren Mischung.

Title (fr)
Article en métal précieux, son procédé de fabrication, mélange moulable pour sa fabrication et procédé de préparation du mélange moulable.

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EP 0457350 A1 19911121 (EN)

Application
EP 91108050 A 19910517

Priority

- JP 12844790 A 19900518
- JP 17875390 A 19900706
- JP 24101490 A 19900911
- JP 24101590 A 19900911
- JP 24101690 A 19900911
- JP 24101790 A 19900911
- JP 24101890 A 19900911
- JP 27093890 A 19901009
- JP 27093990 A 19901009

Abstract (en)
There is disclosed a precious metal article (1) which is formed of a solid-phase sintered product of a precious metal powder. For manufacturing the precious metal article, a moldable mixture which contains a precious metal powder and a binder removable by sintering is shaped into a prescribed molded object, and the molded object is then subjected to sintering. The moldable mixture is produced by preparing a precious metal powder, preparing a jellylike cellulose binder by blending a cellulose with water and leaving for a prescribed period of time, and blending the precious metal powder and the jellylike cellulose binder together. The most preferable moldable mixture contains 50 to 90 % by weight of precious metal powder, 0.8 to 8 % by weight of water-soluble cellulose binder, 0.08 to 3 % by weight of a surface-active agent. 0.1 to 3 % by weight of oil, balance water and unavoidable impurities. The precious metal powder preferably contains gold powder and powder of an alloy containing silver or copper, and the gold powder is obtained by submerged-reduction method. <IMAGE>

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A44C 27/00 (2006.01); **B22F 3/22** (2006.01); **B22F 9/24** (2006.01); **B44C 5/00** (2006.01); **C22C 1/04** (2006.01)

CPC (source: EP)
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C-Set (source: EP)
B22F 2998/00 + **B22F 7/06**

Citation (search report)

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- [A] GB 981352 A 19650127 - ATOMIC ENERGY COMMISSION
- [Y] PATENT ABSTRACTS OF JAPAN vol. 13, no. 13 (M-783)January 12, 1989 & JP-A-63 223 102 (SEKOMETSUKUSHU) September 16, 1988

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