

Title (en)

Process for preparing anisotropic metal nanoparticles and agent for controlling growth thereof

Title (de)

Verfahren zur Herstellung anisotroper Metallnanopartikel und Mittel zur Regelung des Wachstums davon

Title (fr)

Procédé de préparation de nanoparticules métalliques anisotropes et agent destiné à réguler la croissance de celles-ci

Publication

EP 2881197 A1 20150610 (EN)

Application

EP 13382492 A 20131203

Priority

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Abstract (en)

The present invention relates to a process for preparing anisotropic metal nanoparticles comprising the step of reducing the transition metal cation of a salt to oxidation state zero in the presence of a solvent and a polyalkyleneimine or a copolymer where one of the copolymer units is selected from a polyalkyleneimine, wherein the alkyleneimine to metal cation molar ratio is above 10. It also relates to the anisotropic metal nanoparticles obtained by said process and to the use of the polyalkyleneimine or copolymer thereof for preparing anisotropic metal nanoparticles.

IPC 8 full level

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CPC (source: EP US)

B22F 1/054 (2022.01 - EP US); **B22F 1/0547** (2022.01 - EP US); **B22F 9/24** (2013.01 - EP US)

Citation (applicant)

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