Title (en)

GOLD AND CERIUM OXIDE-BASED COMPOSITION, METHOD FOR THE PREPARATION AND THE USE THEREOF IN THE FORM OF A CATALYST, IN PARTICULAR FOR CARBON MONOXIDE OXIDATION

Title (de)

AUF GOLD UND CEROXID BASIERENDE ZUSAMMENSETZUNG, HERSTELLUNGSVERFAHREN DAFÜR UND VERWENDUNG DAVON IN FORM EINES KATALYSATORS, INSBESONDERE ZUR OXIDATION VON KOHLENMONOXID

Title (fr)

COMPOSITION A BASE D'OR ET D' OXYDE DE CERIUM, PROCEDE DE PREPARATION ET UTILISATION COMME CATALYSEUR, NOTAMMENT POUR L'OXYDATION DU MONOXYDE DE CARBONE

Publication

**EP 1718407 A1 20061108 (FR)**

Application

**EP 05729335 A 20050217**

Priority

• FR 2005000378 W 20050217
• FR 0401615 A 20040218

Abstract (en)

[origin: FR2866249A1] Composition (C1) comprising gold on a cerium oxide support, with a halogen/gold molar ratio of 0.04 or less and a particle size of 10 nm or less, is new. Independent claims are also included for: (1) producing C1 by contacting cerium oxide with a gold halide and optionally a silver, platinum, palladium or copper compound at a pH of at least 8, separating solids and washing the solids with a basic solution; (2) producing C1 by depositing gold and optionally silver, platinum, palladium or copper on cerium oxide by impregnation or ion exchange and washing the product with a basic solution having a pH of at least 10; (3) oxidizing carbon monoxide using C1 as a catalyst; (4) purifying air containing carbon monoxide, ethylene, aldehydes, amines, mercaptans and/or volatile organic compounds, e.g. fatty acids, hydrocarbons (especially aromatic hydrocarbons) and malodorous compounds, by contacting the air with C1; (5) cigarette filter containing C1.

IPC 8 full level

**B01J 23/52** (2006.01); **B01J 35/00** (2006.01); **C01B 3/16** (2006.01); **C01B 3/58** (2006.01)

CPC (source: EP US)

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