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(54) **CATALYST SUPPORT FOR PURIFICATION OF EXHAUST GAS, CATALYST FOR PURIFICATION OF EXHAUST GAS USING THE SAME, AND METHOD FOR PRODUCING THE CATALYST SUPPORT FOR PURIFICATION OF EXHAUST GAS**

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See application file for complete search history.

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(57) **ABSTRACT**

A catalyst support for purification of exhaust gas includes a porous composite metal oxide, the porous composite metal oxide containing alumina, ceria, and zirconia and having an alumina content ratio of from 5 to 80% by mass, wherein after calcination in the air at 1100° C. for 5 hours, the porous composite metal oxide satisfies a condition such that standard deviations of content ratios (as at % unit) of aluminum, cerium and zirconium elements are each 19 or less with respect to 100 minute areas (with one minute area being 300 nm in length×330 nm in width) of the porous composite metal oxide, the standard deviation being determined by energy dispersive X-ray spectroscopy using a scanning transmission electron microscope equipped with a spherical aberration corrector.

**15 Claims, 4 Drawing Sheets**

