

Title (en)

CATALYTIC METAL ADDITIVE CONCENTRATE AND METHOD OF MAKING AND USING

Title (de)

KATALYTISCH WIRKSAMES METALL ENTHALTENDE ADDITIVZUSAMMENSETZUNG UND HERSTELLUNGSVERFAHREN UND VERWENDUNG

Title (fr)

CONCENTRE D'ADDITIF METALLIQUE CATALYTIQUE ET SON PROCEDE DE FABRICATION ET D'UTILISATION

Publication

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Application

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Abstract (en)

[origin: WO03083017A1] Delivery of metallic combustion catalysts to internal combustion engines and other combustion devices is improved by dosing units that have the ability to effect the slow and positive supply of metallic additives, including platinum and/or cerium containing catalyst compositions, to fuel. The invention provides additive dosing materials and methods for simply and effectively supplying catalytic metal fuel additives to fuel in suitable low concentrations as are effective. The dosing units can be used with devices made to contact diesel fuel. In one approach, a catalytic metal additive concentrate (CMAC) is prepared in normally solid, semisolid or viscous form. The CMAC will preferably be encapsulated with a solid polymer. The encapsulation can be accomplished by embedding or dispersing the CMAC in a suitable polymer. If desired, the CMAC can be dispersed in one polymer and then the resulting composite can be embedded in the same or a different polymer. In an alternative form, a dosing unit can comprise a semisolid CMAC, which could be similarly held in contact with flowing fuel.

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