

ABSTRACT

METHOD OF OXIDIZING SOOT AND REDUCING SOOT ACCUMULATION IN A DIESEL FUEL COMBUSTION AFTER TREATMENT SYSTEM

A method of reducing the negative effects of accumulation of ash in a diesel fuel combustion system includes supplying a diesel fuel having an additive that includes a manganese compound to a diesel fuel combustion system. The combustion system includes a catalyzed diesel particulate filter or, alternatively, a continuously regenerating technology diesel particulate filter. The fuel is then combusted in the combustion system to produce at least one byproduct that includes the manganese compound. The manganese compound is supplied in an amount effective to complex with the combustion byproduct.