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(54) **FRICITION MATERIAL COMPOSITIONS AND ADDITIVES**

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(52) **U.S. Cl.** ..... **51/309**; 310/252; 420/89; 420/93

(58) **Field of Classification Search** ..... 523/149, 523/152, 155; 420/89, 93; 51/309; 310/252  
See application file for complete search history.

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(57) **ABSTRACT**

The claimed invention involves a novel composition of matter comprising a mixture of Fe—Mo Intermetallic and copper oxide. A novel composition of matter of Fe—Mo Intermetallic, copper oxide and calcium carbonate is also claimed. The claimed invention also involves a novel friction lining additive comprising Fe—Mo Intermetallic and copper oxide for improved braking effectiveness. Fe—Mo Intermetallic, copper oxide and calcium carbonate may also be used as a friction lining additive according to the present invention. The claimed invention also includes a novel motor brush comprising Fe—Mo Intermetallic and copper oxide for improved wear. Fe—Mo Intermetallic, copper oxide and calcium carbonate may also be used as a motor brush additive according to the present invention.

**10 Claims, 22 Drawing Sheets**