US006517341B1

(12) **United States Patent**
Brun et al.

(10) **Patent No.: US 6,517,341 B1**
(45) **Date of Patent: Feb. 11, 2003**

(54) **METHOD TO PREVENT RECESSION LOSS OF SILICA AND SILICON-CONTAINING MATERIALS IN COMBUSTION GAS ENVIRONMENTS**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **09/259,364**

(22) Filed: **Feb. 26, 1999**

(51) **Int. Cl.**[7] **F23J 7/00**; F27D 1/16; F23B 7/00

(52) **U.S. Cl.** **431/2**; 431/4; 427/255.18; 427/237; 44/320; 264/30; 110/343

(58) **Field of Search** 431/2, 4; 427/140, 427/142, 239, 331, 238, 237, 249.15, 255.11, 255.18, 255.17, 255.19, 255.21, 255.37, 255.393; 44/320, 321, 357, 362, 364, 370, 385; 264/30; 110/343, 342

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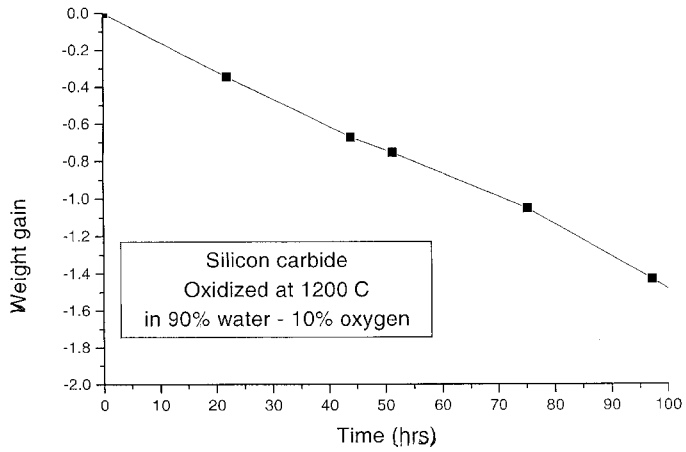
(57) **ABSTRACT**

While silicon-containing ceramics or ceramic composites are prone to material loss in combustion gas environments, this invention introduces a method to prevent or greatly reduce the thickness loss by injecting directly an effective amount, generally in the part per million level, of silicon or silicon-containing compounds into the combustion gases.

45 Claims, 2 Drawing Sheets