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Manepalli et al.

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(54) **SYSTEMS AND METHODS FOR RECOVERY OF RARE-EARTH CONSTITUENTS FROM ENVIRONMENTAL BARRIER COATINGS**

USPC 209/212, 214, 228
See application file for complete search history.

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(57) **ABSTRACT**

Systems and methods for recovery of rare-earth constituents from environmental barrier coatings (EBCs) are provided. One method includes for separating rare-earth (RE) containing constituents from a particulate feedstock containing a mixture of RE silicates and non-magnetic constituents includes disposing a collection member in a vicinity of the feedstock and magnetizing the collection member to generate a magnetic field sufficient to selectively attract the RE silicates to the collection member. The method further includes removing the RE silicates from the collection member.

18 Claims, 6 Drawing Sheets

(58) **Field of Classification Search**
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