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Waterman et al.

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(54) **METHODS AND SYSTEMS FOR RECOVERING RHENIUM FROM A COPPER LEACH**

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USPC **75/711**; 75/743; 205/772; 210/681;
423/24; 423/25; 423/27; 423/49

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USPC 75/724, 737, 744, 743; 423/49, 658.5,
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See application file for complete search history.

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(57) **ABSTRACT**

Various embodiments provide new methods of rhenium recovery. The methods can include subjecting a metal-bearing solution to an activated carbon bed, and adsorbing rhenium onto the activated carbon. The methods can also include heating a basic aqueous elution solution and eluting the rhenium from the activated carbon with the heated elution solution. The methods can also incorporate an ion exchange as a rhenium recovery apparatus.

11 Claims, 7 Drawing Sheets

