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(54) **IRRIGATION IMPACTS ON A LEACH STOCKPILE**

(71) Applicant: **FREEMPORT MINERALS CORPORATION**, Phoenix, AZ (US)

(72) Inventors: **Dana Geislinger**, Chandler, AZ (US); **Travis Gaddie**, Phoenix, AZ (US); **Margaret Alden Tinsley**, Titusville, FL (US); **Steven Chad Richardson**, Thatcher, AZ (US); **Raquel Crossman**, Mesa, AZ (US); **Cristian Caro**, Tucson, AZ (US); **Kevin Cheng**, Phoenix, AZ (US); **Rosemary D. Blosser**, Tucson, AZ (US); **Amelia Briggs**, Mesa, AZ (US)

(73) Assignee: **FREEMPORT MINERALS CORPORATION**, Phoenix, AZ (US)

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**C22B 3/06** (2006.01)

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(58) **Field of Classification Search**  
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*Primary Examiner* — Jeffrey P Aiello

(74) *Attorney, Agent, or Firm* — SNELL & WILMER L.L.P.

(57) **ABSTRACT**

The system may include a secondary irrigation feature that determines a percent of overlap of each of a plurality of submodules in a second lift over each of a plurality of submodules in a first lift and adjusts at least one of leaching operations or a leaching model based on the total tonnage weighted average of metal in the second lift. The method may further comprise determining an acid gap based on a difference between total acid given and total acid consumption; and further adjusting at least one of the leaching operations or the leaching model based on the acid gap. The method may further comprise determining a percentage of compacted material based on the material that is compacted and irrigated divided by the material that is irrigated; and

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