



US012353196B2

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

(10) **Patent No.:** **US 12,353,196 B2**
(45) **Date of Patent:** **Jul. 8, 2025**

(54) **SYSTEM AND METHOD FOR DETERMINING CHANGES TO A HEAT PROFILE OF A STOCKPILE**

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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 257 days.

(21) Appl. No.: **17/850,855**

(22) Filed: **Jun. 27, 2022**

(65) **Prior Publication Data**
US 2023/0418269 A1 Dec. 28, 2023

(51) **Int. Cl.**
G05B 19/41 (2006.01)
G05B 19/418 (2006.01)
C22B 3/04 (2006.01)

(52) **U.S. Cl.**
CPC ... **G05B 19/41865** (2013.01); **G05B 19/4183** (2013.01); **G05B 19/41885** (2013.01); **C22B 3/04** (2013.01)

(58) **Field of Classification Search**
CPC G05B 19/41865; G05B 19/4183; G05B 19/41885; C22B 3/04; G06Q 10/08; G06Q 50/02; G06Q 10/04
See application file for complete search history.

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(57) **ABSTRACT**

The method may comprise receiving historical data (e.g., mineralogy data, irrigation data, raffinate data, heat data, lift height data, geographic data on ore placement and/or blower data); training a predictive model using the historical data to create a trained predictive model; adding future assumption data to the trained predictive model; running the forecast engine for a plurality of parameters to obtain forecast data for a mining production target; comparing the forecast data for the mining production target to the actual data for the mining production target; determining deviations between the forecast data and the actual data, based on the comparing; and changing each of the plurality of parameters from

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