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Clayton et al.

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(54) **SYSTEMS AND METHODS FOR
SUBSURFACE METAL RECOVERY**

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This patent is subject to a terminal dis-
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(57) **ABSTRACT**

The present disclosure provides a method comprising deter-
mining an ore map for a heap to identify a location of a
recoverable metal value in the heap, delivering a leaching
solution from a leaching solution source to a leaching solu-
tion regulating system, regulating at least one of a pres-
sure, a mass flow rate, or a volumetric flow rate of the
leaching solution to achieve a target operational condi-
tion, wherein the first target operational condition is
selected to optimize a set of operational parameters to
maximize recovery of the recoverable metal value, deliver-
ing the leaching solution at the first target operational
condition from the leaching solution regulating system to a
subsurface leaching distribution system, and delivering the
leaching solution at the target operational condition under
the surface of a heap to leach and recover at least one
metal value.
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