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(54) Title: WIRESAW APPARATUS AND METHOD FOR CONTINUOUS REMOVAL OF MAGNETIC IMPURITIES DURING WIRESAW CUTTING

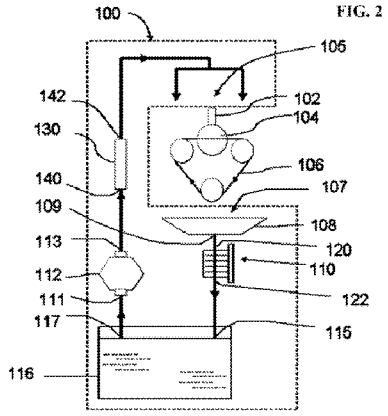


FIG. 2

100. recirculating slurry dispensing system
102. mount and support head
104. workpiece
105. application region
106. wiresaw
107. wiresaw slurry egress region
108. collector
109. collector outlet
110. magnetic separator
111. pump inlet
112. pump
113. pump outlet
115. slurry tank ingress
116. slurry tank
117. slurry tank egress
120. separator inlet
122. separator outlet
130. heat exchanger
140. exchanger inlet
142. exchanger outlet

(57) Abstract: The invention provides a method and apparatus for removing magnetic or magnetized contaminants from a wiresaw cutting slurry during a wiresaw cutting process. The apparatus comprises a recirculating slurry dispensing system that defines the slurry flow pathway. The recirculating dispensing slurry system comprises a magnetic separator for removing magnetic or magnetizable contaminants from the slurry, wherein the purified slurry is discharged back into recirculation within the recirculating slurry dispensing system.

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