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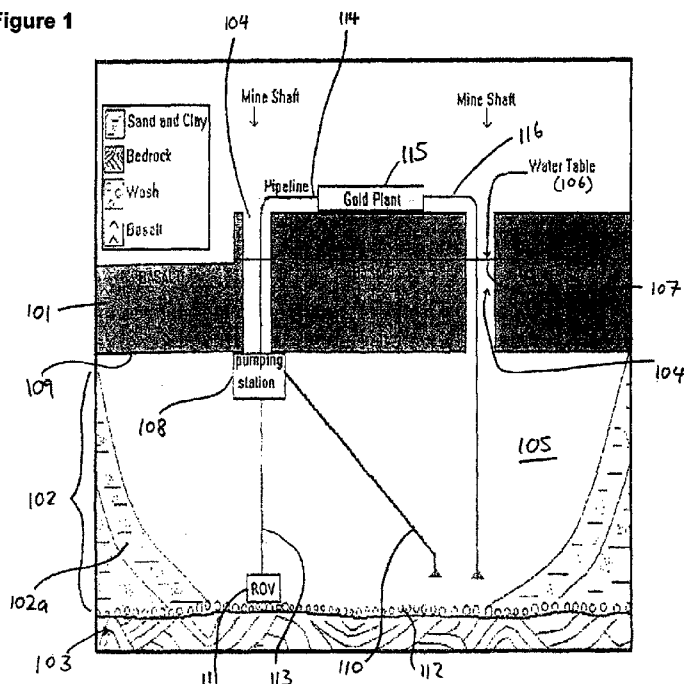
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(54) Title: PROCESS FOR MINING ALLUVIAL DEPOSITS

Figure 1



(57) Abstract: Disclosed herein is a remote operating vehicle (ROV) for use in a subterranean mining process, such as to extract material from beneath a rock layer. The ROV may be provided as a number of components each including their own umbilical cord. Each of the components may be lowered through a borehole and assembled together to form the ROV underground. Also disclosed herein is a device and method for in-line monitoring of a mining material to determine the presence of a material of interest in the mining material. The device includes conductive plates that are spaced apart. The device detects the presence of a material of interest as it passes through the spacing between the conductive plates.