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- (54) **Title:** SYSTEMS AND METHODS FOR DETECTING WELDING AND CUTTING PARAMETERS

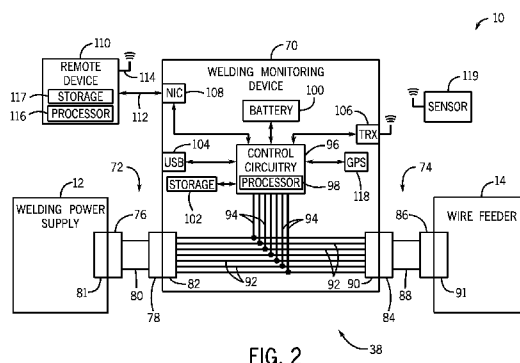


FIG. 2

- (57) **Abstract:** A system for detecting welding and cutting parameters is provided. One embodiment of the system includes an input terminal (72) configured to receive signals corresponding to welding or cutting parameters from a first welding or cutting device (12). None of the signals carry welding power. The system also includes an output terminal (4) configured to provide the signals to a second welding or cutting device (14). The system includes conductors (92) coupled between the input terminal (72) and the output terminal (74) and configured to carry the signals between the input terminal and the output terminal. The system also includes control circuitry (96) configured to detect the welding or cutting parameters from the signals.