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(54) Title: HOMOPOLAR PULSED WELDING QUALITY CONTROL AND VERIFICATION

(57) Abstract

The invention provides a method and apparatus to control and verify weld-quality in a homopolar pulsed weld by measuring in-process parameters. Methods are disclosed for real-time weld-quality control in a weld-quality control system for homopolar pulsed welding (102), including measuring at least one in-process parameter that correlates to a resulting weld-quality of a weld. Further, methods are disclosed for post-process weld-quality verification for homopolar pulsed welding, including a step (106) of identifying at least one in-process weld-quality verification parameter and a step (108) of utilizing such a post-process weld-quality verification parameter to verify the weld-quality after a homopolar pulsed welding process.

