ABSTRACT

METHOD FOR CONTROLLING WELDING APPARATUS, CONTROLLER, AND WELDING SYSTEM

A method for controlling a welding apparatus, including the following steps: an acquisition step of acquiring an image of a groove of a weld seam to obtain a groove image; a first determination step of extracting a laser line; a processing step of at least fitting the laser line to obtain a first function; a second determination step of determining a third function ; a third determination step of determining a predicted position of a welding gun when the third function converges to be a gun alignment position of the welding gun, and performing welding; and repeatedly executing the first determination step, the processing step, the second determination step and the third determination step, until the welding of all weld passes of the weld seam is completed. Further provided are a welding controller, and a welding system for executing the control method.

Fig. 1