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(54) **WIRE ELECTRIC DISCHARGE MACHINING APPARATUS AND COOLING CONTROL DEVICE**

USPC 219/69.11, 69.12, 69.13, 69.14
See application file for complete search history.

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(58) **Field of Classification Search**

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B23H 7/20; B23H 7/36

(57) **ABSTRACT**

The present invention includes a post-cooling temperature sensor that measures a temperature of the machining fluid immediately after being cooled by a cooling device as a post-cooling fluid temperature, and an intra-tank temperature sensor that measures a temperature of the machining fluid in a work tank as an intra-tank fluid temperature, for a cooling control device that controls a fluid temperature of the machining fluid in a wire electric discharge machining apparatus, and the cooling control device has a first temperature-feedback control unit that feeds back the post-cooling fluid temperature into a cooling instruction value as an instruction value for the cooling device, and a second temperature-feedback control unit adjusts the cooling instruction value by feeding back the intra-tank fluid temperature to cause the intra-tank fluid temperature to follow a target temperature.

12 Claims, 7 Drawing Sheets

