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ABSTRACT

An electric discharge machining apparatus machines a workpiece by means of electric discharges while powder-containing machining fluid is supplied to a machining gap formed between a tool electrode and workpiece to be machined. The necessary parts in a work tank are housed in a cover member so as to be protected against the adherence of the powder which is contained in the machining fluid. During machining, a fluid supply device supplies powder-free fluid to the inside of the cover member while supplying the powder-containing fluid to the machining gap. Therefore, the adherence of the powder to the sliding parts, such as a wire electrode guide or a current pickup and to the rotating parts, such as bearings of rollers, which are provided along a wire transport path, is prevented so that the machining is performed with a high precision.