

TABLE-TOP ELID PROCESSING APPARATUS

ABSTRACT

A conductive grindstone 2 for processing a workpiece 1, an electrode 4 installed parallel to the processing surface of the conductive grindstone, a processing fluid supplying device 6 for supplying a conductive processing fluid between the grindstone and the electrode, and a power supply 8 for applying a voltage between the grindstone and the electrode are provided. Power supply 8 is comprised with a DC power supply and an RC circuit, which generate a pulse-like voltage, and can be applied to both electrolytic dressing and discharge truing. In addition, a work driving device 12 for driving a table with the workpiece mounted thereon, in horizontally orthogonal directions X and Y, a tool-driving device 14 for driving the conductive grindstone vertically with respect to the workpiece while rotating the grindstone around the vertical shaft Z, and a numeric control device 16 (personal computer) for numerically driving devices 12 and 14. Thus, a hard brittle material and cemented carbide can be processed at a high accuracy, both power supplies for driving power and generating pulses can be made compact, so the system can be driven with a small amount of power at a low voltage (100V) and can be made so compact that it is mountable on top of a table.

Figure 1