

PROCESSING APPARATUS

ABSTRACT

5

Provided is a processing apparatus with a novel structure in which a tool side rotates in relation to a main body side, capable of producing excellent quality transmission of an electrical signal from the tool side to the main body side with a simpler and more compact composition, and capable of driving an ultrasonic transducer provided on the tool side more effectively. A pair of signal coils (58a, 58b) are disposed between the main body side (14) and the tool side (20) so as to be able to transmit an electrical signal, and a power supply frequency to the ultrasonic transducer (112) provided to the tool side (20) is controlled by a power supply control means (140, 136). At least one of the signal coils (58a, 58b) is provided with a coil winding path (68, 70) that reduces noise electromotive force generated due to an effect from power coils (56a, 56b) provided to the main body side (14) and the tool side (20).

10

15

Figure 1