

## SECTION B — PERFORMING OPERATIONS; TRANSPORTING

### B23 MACHINE TOOLS; METAL-WORKING NOT OTHERWISE PROVIDED FOR

**B23H WORKING OF METAL BY THE ACTION OF A HIGH CONCENTRATION OF ELECTRIC CURRENT ON A WORKPIECE USING AN ELECTRODE WHICH TAKES THE PLACE OF A TOOL; SUCH WORKING COMBINED WITH OTHER FORMS OF WORKING OF METAL** (processes for the electrolytic or electrophoretic production of coatings, electroforming, or apparatus therefor C25D; processes for the electrolytic removal of material from objects C25F; manufacturing printed circuits using precipitation techniques to apply the conductive material to form the desired conductive pattern H05K 3/18) [4]

#### Note(s)

This subclass covers the working of metal described as "electroerosion".

#### Subclass index

ELECTRICAL DISCHARGE MACHINING.....	1/00
ELECTROCHEMICAL MACHINING.....	3/00
COMBINED MACHINING.....	5/00
COMMON PROCESSES OR APPARATUS.....	7/00
MACHINING PARTICULAR OBJECTS OR OBTAINING SPECIAL EFFECTS OR RESULTS.....	9/00
AUXILIARY APPARATUS OR DETAILS.....	11/00

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| <p><b>1/00 Electrical discharge machining, i.e. removing metal with a series of rapidly recurring electrical discharges between an electrode and a workpiece in the presence of a fluid dielectric [4]</b></p> <p>1/02 • Electric circuits specially adapted therefor, e.g. power supply, control, preventing short circuits or other abnormal discharges [4]</p> <p>1/04 • Electrodes specially adapted therefor or their manufacture (B23H 9/00 takes precedence) [4]</p> <p>1/06 • • Electrode material [4]</p> <p>1/08 • Working media [4]</p> <p>1/10 • Supply or regeneration of working media [4]</p> <p><b>3/00 Electrochemical machining, i.e. removing metal by passing current between an electrode and a workpiece in the presence of an electrolyte [4]</b></p> <p>3/02 • Electric circuits specially adapted therefor, e.g. power supply, control, preventing short circuits [4]</p> <p>3/04 • Electrodes specially adapted therefor or their manufacture (B23H 9/00 takes precedence) [4]</p> <p>3/06 • • Electrode material [4]</p> <p>3/08 • Working media [4]</p> <p>3/10 • Supply or regeneration of working media [4]</p> <p><b>5/00 Combined machining [4]</b></p> <p>5/02 • Electrical discharge machining combined with electrochemical machining [4]</p> <p>5/04 • Electrical discharge machining combined with mechanical working [4]</p> <p>5/06 • Electrochemical machining combined with mechanical working, e.g. grinding or honing [4]</p> <p>5/08 • • Electrolytic grinding [4]</p> | <p>5/10 • Electrodes specially adapted therefor or their manufacture (B23H 1/04, B23H 3/04 take precedence) [4]</p> <p>5/12 • Working media [4]</p> <p>5/14 • Supply or regeneration of working media [4]</p> <p><b>7/00 Processes or apparatus applicable to both electrical discharge machining and electrochemical machining [4]</b></p> <p>7/02 • Wire-cutting [4]</p> <p>7/04 • • Apparatus for supplying current to working gap; Electric circuits specially adapted therefor [4]</p> <p>7/06 • • Control of the travel curve of the relative movement between electrode and workpiece [4]</p> <p>7/08 • • Wire electrodes [4]</p> <p>7/10 • • • Supporting, winding or electrical connection of wire-electrode [4]</p> <p>7/12 • Rotating-disc electrodes [4]</p> <p>7/14 • Electric circuits specially adapted therefor, e.g. power supply [4]</p> <p>7/16 • • for preventing short circuits or other abnormal discharges [4]</p> <p>7/18 • • for maintaining or controlling the desired spacing between electrode and workpiece [4]</p> <p>7/20 • • for programme-control, e.g. adaptive [4]</p> <p>7/22 • Electrodes specially adapted therefor or their manufacture (B23H 7/08, B23H 7/12, B23H 9/00 take precedence) [4]</p> <p>7/24 • • Electrode material [4]</p> <p>7/26 • Apparatus for moving or positioning electrode relatively to workpiece; Mounting of electrode [4]</p> <p>7/28 • • Moving electrode in a plane normal to the feed direction, e.g. orbiting [4]</p> |
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- 7/30 • • Moving electrode in the feed direction (B23H 7/32 takes precedence) [4]
- 7/32 • • Maintaining desired spacing between electrode and workpiece [4]
- 7/34 • Working media [4]
- 7/36 • Supply or regeneration of working media [4]
- 7/38 • Influencing metal working by using specially adapted means not directly involved in the removal of metal, e.g. ultrasonic waves, magnetic fields or laser irradiation [4]

9/00 **Machining specially adapted for treating particular metal objects or for obtaining special effects or results on metal objects** (heat treatment by cathodic discharge C21D 1/38) [4]

- 9/02 • Trimming or deburring [4]
- 9/04 • Treating surfaces of rolls [4]
- 9/06 • Marking or engraving [4]
- 9/08 • Sharpening [4]
- 9/10 • Working turbine blades or nozzles [4]
- 9/12 • Forming parts of complementary shape, e.g. punch-and-die [4]
- 9/14 • Making holes [4]
- 9/16 • • using an electrolytic jet [4]
- 9/18 • Producing external conical surfaces or spikes (B23H 9/08 takes precedence) [4]

11/00 **Auxiliary apparatus or details, not otherwise provided for** [4]