

CPC**COOPERATIVE PATENT CLASSIFICATION****B44B****MACHINES, APPARATUS OR TOOLS FOR ARTISTIC WORK, e.g. FOR SCULPTURING, GUILLOCHING, CARVING, BRANDING, INLAYING**(processes for producing decorative effects [B44C](#) ; embossing leather [C14B](#))**Guidance heading:****B44B 1/00****Artist's machines or apparatus equipped with tools or work holders moving or able to be controlled three-dimensionally for making single sculptures or models**
(copying devices for machine tool use [B23Q 35/00](#))**B44B 1/003**

- . {having several cutting tools }

B44B 1/006

- . {using computer control means }

B44B 1/02

- . wherein three-dimensional copies are made

B44B 1/04

- .. having devices for changing, e.g. proportionally enlarging or reducing, the shape from an original pattern

B44B 1/06

- . Accessories

B44B 3/00**Artist's machines or apparatus equipped with tools or work holders moving or able to be controlled substantially two- dimensionally for carving, engraving, or guilloching shallow ornamenting or markings** (marking or engraving metal by the action of a high concentration of electric current [B23H 9/06](#); forme engraving [B41C](#) , D; engraving by photo-mechanical reproduction [G03F](#))**B44B 3/001**

- . {by copying }

B44B 3/002

- .. {using a pantograph }

B44B 3/003

- .. {using a pendulum }

B44B 3/004

- .. {using a tool controlled by a photoelectric scanning device }

B44B 3/005

- . {characterised by the power drive }

B44B 3/006

- . {carving or engraving devices having several cutting tools }

B44B 3/007

- . {in layered material }

B44B 3/008

- . {characterised by multi-step processes }

B44B 3/009

- . {using a computer control means }

B44B 3/02

- . wherein plane surfaces are worked

B44B 3/04

- . wherein non-plane surfaces are worked

B44B 3/06

- . Accessories, e.g. tool or work holders

- B44B 3/061 .. {Tool heads }
- B44B 3/063 .. {Tool holders }
- B44B 3/065 .. {Work holders }
- B44B 3/066 .. {Master copy holders }
- B44B 3/068 .. {Tracer heads ([B44B 3/004](#) takes precedence) }

B44B 5/00

Machines or apparatus for embossing decorations or marks, e.g. embossing coins
 (corrugating sheet metal or metal tubes, embossing combined with sheet-metal working operations [B21D](#) ; embossing plastics or substances in a plastic state, in general [B29C 59/00](#); embossing of paper or cardboard in general [B31F 1/07](#); forme embossing [B41C 1/08](#); embossing combined with application of ink, type marking presses, selective embossing mechanisms [B41F](#) , [B41J](#) , [B41K](#) , [B41M](#) ; embossing leather [C14B](#))

- B44B 5/0004 . {characterised by the movement of the embossing tool(s), or the movement of the work, during the embossing operation }
- B44B 5/0009 .. {Rotating embossing tools }
- B44B 5/0014 ... {and rotating workpieces }
- B44B 5/0019 .. {Rectilinearly moving embossing tools }
- B44B 5/0023 ... {actuated by a lever }
- B44B 5/0028 ... {cooperating with rotating workpieces }
- B44B 5/0033 .. {Oscillating embossing tools }
- B44B 5/0038 ... {actuated by a lever }
- B44B 5/0042 ... {performing a rolling-off motion with respect to the workpiece }
- B44B 5/0047 . {by rolling ([B44B 5/0061](#) takes precedence) }
- B44B 5/0052 . {by pressing ([B44B 5/0061](#) and [B44B 5/0076](#) take precedence) }
- B44B 5/0057 .. {using more than one die assembly simultaneously }
- B44B 5/0061 . {characterised by the power drive }
- B44B 5/0066 .. {producing a vibratory motion }
- B44B 5/0071 . {which simultaneously apply a decorative material }
- B44B 5/0076 . {having a series of embossing tools each of which can be brought into working position }
- B44B 5/008 . {in layered material; connecting a plurality of layers by embossing }
- B44B 5/0085 . {Portable apparatus for manual operation }
- B44B 5/009 . {by multi-step processes }
- B44B 5/0095 . {using computer control means }
- B44B 5/02 . Dies; Accessories
- B44B 5/022 .. {Devices for holding or supporting work }
- B44B 5/024 .. {Work piece loading or discharging arrangements }

- B44B 5/026 . . {Dies ([B44B 5/028](#) takes precedence) }
- B44B 5/028 . . {Heated dies }

B44B 7/00 **Machines, apparatus or hand tools for branding, {e.g. using radiant energy such as laser beams } (burning or charring wood stock [B27M 1/06](#))**

- B44B 7/002 . {in layered material }
- B44B 7/005 . {by multi-step processes }
- B44B 7/007 . {using a computer control means }
- B44B 7/02 . Branding irons

B44B 9/00 **Machines or apparatus for inlaying with ornamental structures, e.g. tarsia or mosaic work (uniting ornamental elements, on a support [B44C 1/28](#), to structures [B44C 3/12](#); imitation of mosaic or tarsia work patterns [B44F 11/04](#))**

B44B 11/00 **Artists' hand tools for sculpturing, kneading, carving, engraving, guilloching or embossing; Accessories therefor**

- B44B 11/02 . for substantially two-dimensional carving, engraving or guilloching
- B44B 11/04 . for embossing

Guidance heading:

B44B 2700/00 **Machines, apparatus, tools or accessories for artistic work**

- B44B 2700/02 . Artist's machines or apparatus equipped with tools or work holders moving or able to be controlled substantially two-dimensionally for carving, engraving, or guilloching shallow ornamenting or markings
 - B44B 2700/021 . . by copying
 - B44B 2700/023 . . for engraving parallel lines of flat surfaces
 - B44B 2700/025 . . for engraving a surface of revolution
 - B44B 2700/026 . . for guilloching
 - B44B 2700/028 . . Electrical engraving machines
- B44B 2700/04 . Machines or tools for carving
 - B44B 2700/045 . . Electrical engraving machines
- B44B 2700/06 . Machines, apparatus or tools for stippling
- B44B 2700/08 . Machines, apparatus or hand tools for branding
- B44B 2700/09 . Machines or apparatus for making models
- B44B 2700/12 . Accessories; Tool or work holders