

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](#))**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
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