1968

Modular principles of design in handcrafted furniture

Timothy Stanley

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Recommended Citation
MODULAR PRINCIPLES OF DESIGN
IN HANDCRAFTED FURNITURE
Volume 2

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MFA Thesis
College of Fine and Applied Arts
Rochester Institute of Technology
1968

ILLUSTRATIVE MATERIAL
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46 Experimental Bends: Rosewood
6 EQUAL DRAWERS
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6 EQUAL DRAWERS
-CASE HORIZONTAL-
VERTICAL POSITION: DWRs. HUNG FROM SIDES OF CASE, CLEARING RECESSED CENTER PANEL.

HORIZONTAL POSITION: DWRs. HUNG FROM ENDS OF CASE & RECESSED CENTER PANEL.
HORIZONTAL MAJOR AXIS AUGMENTED BY HANDLES
DRAWERS FITTED TO WRACKED CASE IN VERTICAL POSITION.

SAME DRAWERS NOW RELATED TO WRACKED CASE IN HORIZONTAL POSITION.
NOTE: THIS TYPE OF COIL GENERATES CONSIDERABLE HEAT OUT THE END OF THE PIPE TOWARDS THE OPERATOR.
$\frac{1}{8}$" CANVAS CORE BAKELITE SHACKLE.

WOOD BEING BENT.

BASE OF FRAME EASILY CLAMPS IN BENCH-VISE OR TO END OF TABLE, WITH HOT-PIPE EXTENDING WELL BEYOND THE EDGE.
'NORSTAT' NO. A-24 THERMOSTAT WITH SCREW ADJUST.

'KAMLROK' ELECTRIC HEAT UNIT. 13/16" DIA. STAINLESS STEEL JACKET, 4 1/2' LONG. 120V/600W

PORCELAIN ROD INSULATED SOLID WIRE LEADS.

SHEET ASBESTOS INSULATOR

FIBER-GLAS INSULATED WIRE.

BLIND TAP ALL SCREW HOLES IN ALUMINUM SLUG. MAKE SURE THAT SCREW FILLS TAPPED HOLE COMPLETELY, LEAVING NO AIR POCKET TO BUILD UP HEAT & BURN OUT HEAT UNIT.

DRILL ALUMINUM SLUG TO A CLOSE TOLERANCE, SLIP-FIT, FOR THE HEAT UNIT.
Thermostat enclosed within protective housing.

Enclosed wire raceway for both thermostat and heat unit.

Machine screw access holes for mounting aluminum slug to support column.

Triangular support column leaves underside of hot-plate clear of restricting framework, facilitating diagonal to grain bending and bending to more than 180 degrees.

Triangular support column welded at edges to rectangular base, to allow unit to be secured in bench vise.
MALE & FEMALE CLAMPING BLOCKS.
NUMBER OF LAMINATIONS GOVERNS RADIUS OF CLAMPING BLOCKS REQ'D.

1" RADIUS