JOB NAME Babbit Hammer

BLUE PRINT NUMBER: 01-A-9

ITEM: Handle.

INFORMATION: This tool is useful for setting down work held in a vise

without maring the surface finish.

PRIMARY SKILL LEARNED: 1. Turn taper with tailstock offset.

STOCK: 5/8" Gold Rolled Steel.

OPERATIONS:

1. Cut stock to 7 7/8" length.

2. Face off and center drill in collet.

3. Knurl on centers.

4. Chamfer end.

5. Reverse and turn 1/2" diameter 4 1/8" long.

6. Turn 7/16" diameter 3/4" long.7. Turn 3/8" diameter 5/8" long.

8. Cut 3/8" - 16 thread.

9. Offset tail stock 5/32" and cut taper.

10. Blend in radius at start of taper.

BLUE PRINT NUMBER: C1-A-9

ITEM: Head

PRECAUTIONS:

- 1. Allow stock to stick out at least 5/8" in chuck.
 - 2. Do inside and outside taper in same setup.
 - 3. Set compound rest for cutting tapers.
 - 4. Honl head by ends when drilling for tapped hole.
 - Relieve first thread to get snug fit on handle.

STOCK: 1 1/8" Diameter Hexagon Cold Rolled Steel.

- OPERATIONS: 1. Cut off stock to 1 1/4" length.
 - Chuck in 3 jaw chick and turn outside taper.
 Drill 5/8" hole.

 - 4. Bore inside taper.
 - 5. Reverse piece in chuck.
 - 6. Turn outside taper.
 - 7. Drill 5/8" hole.
 - 8. Bore inside taper.

 - 9. Drill 5/16" hole 7/8" deep.
 10. Drill 3/8" hole 1/8" deep to remove first thread.
 - 11. Tap 3/8"-16 thread.

NUE PRINT NUMBER: C1-4-9

ITar Mold

PALCAUTIONS: 1. Outside gramever does not have to be turned.

2. Have large side of taper facing you when boring so that 1 1/16" dimension may be checked.

5700k: Machine steel 1 1/2" diameter.

OPERATIONS: 1. Cut stock to 13/16" length.

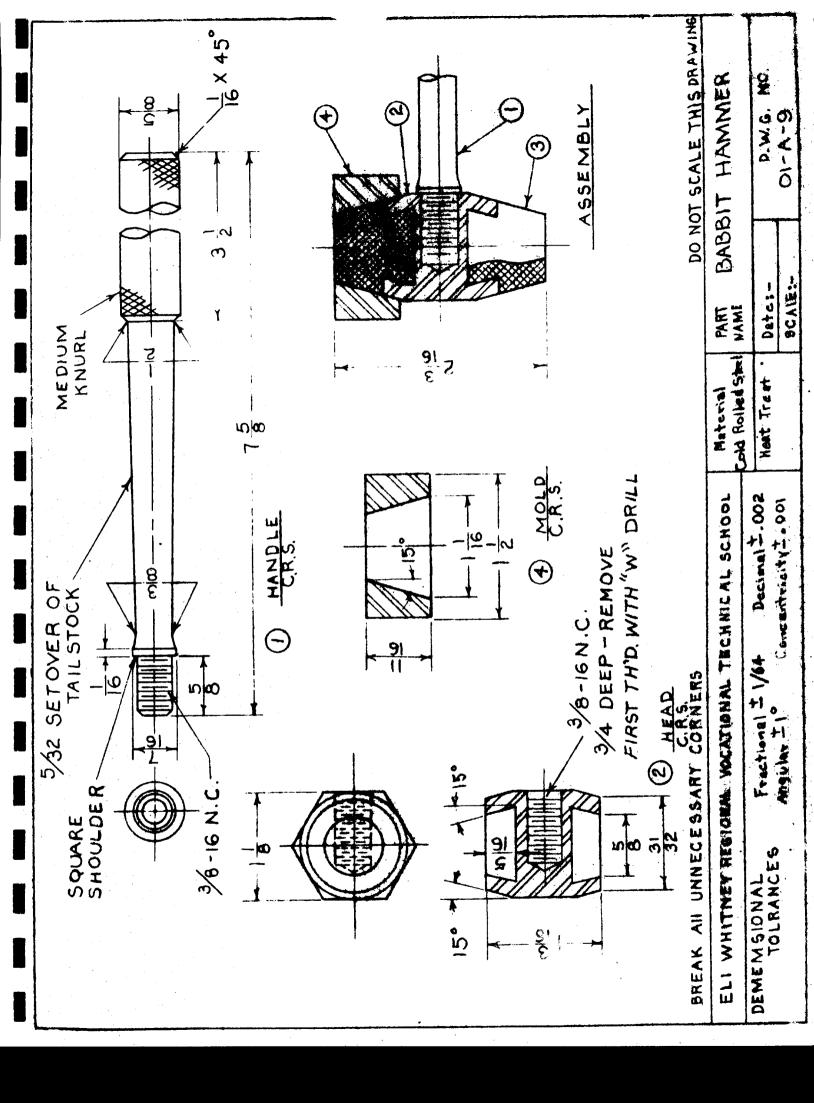
2. Remove burrs.

3. Face off in 3 jaw chuck.

4. Drill 5/8" hole.

5. Bore 15 degree angle.

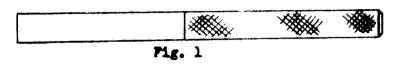
b. Reverse piece and face off to 11/16".



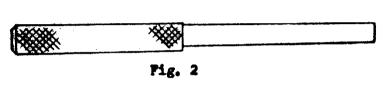
BABBIT HAMOER

*Use 5\$8" Cold Roll Steel. Face and center drill both ends in a Spring Collet.

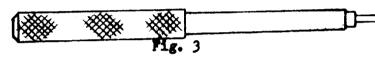
. Place the project on centers. Medium knurl one end 4^n long. Shamfer end. Fig. 1



Reverse piece on centers, protect the knurl with a soft piece of copper.



From the tailstock end, turn the following sises: a. 1/2" diameter 4 1/8" long. Fig. 2 b. 7/16" diameter 3/4" long. c. .370 diameter 5/8" long. Fig. 3

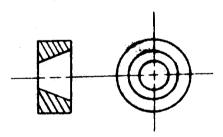


Turn a 3/8" X 16 right hand thread to the shoulder.



Offset the tailstock 5/32" toward the front of the machine and turn the taper. Fig. 4

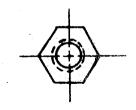
Mold



Use 1 1/2" diameter Cold Roll Steel 13/16" long. Place in a 3 jew chuck, face off and center drill. Use a 5/8" drill and drill a 5/8" hole thru. Bore a 15 angle tothe 1 1/16" dimension. Reverse the piece in the chuck and face off to 11/16" long. Fig. 5

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Use 1 1/8" hexagon Cold Roll Steel
string 1 1/4" long. Face eff, center drill
and drill a 5/8" diameter hale 5/16" deep.
Set the Compound Rest to 15 angle, turn
the outside angle to the 31/32" dimension.
Bore 15° inside angle to the 5/8" dimension.
Reverse the piece in the chunk, face off to 1 3/16" long,
and repeat the above operations for this side, Fig. 6



Layout, drill 5/16" hole 7/8" deep, drill 3/8" hole 1/8" deep tap 3/8" X 16 right hand thread. Stamp name and date.