



The Badger Blacksmiths
A Wisconsin Guild and ABANA Affiliate
"We Can Forge Anything But A Check"



Volume 15, Issue 1, Newsletter Date 1/3/2016



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President's Notes

There is no President's Note this month.

ATTENTION

I am storing the club's coal. If you need any coal give me a call, 715-835-0894, or an Email, johngrump@att.net, and I will bring it to the next meeting. 2016 Dues are due in January. Send or give Brad Hegge your dues so that we can continue to supply you with the newsletter. His address is W12564 State Road 121, Osseo, WI 54758. Thank you.

Editor's Notes

December 12, 2015 Notes

The Board of Directors met at my house on the 12th. Those in attendance included: Ray Murray, Chuck Lindvig, Don Hoganson, Brad Hegge and myself. We spent the majority of time discussing the meeting schedule for 2016. We could use 1 or 2 more people willing to host a meeting in March or June or change with someone who can switch months. This is a volunteer organization and its good to be involved.

Dion suggested in an Email that we should have some sort of Honor Role to recognize members of the club. One possibility would be a plaque with brass name plates that would hang in the smithy at Pioneer Park. Any thoughts on this would be appreciated.

Don mentioned some history of the club and the initial meeting at his shop with 19 people in attendance.

We also discussed themes for the monthly meetings. It was agreed that we should continue with the monthly themes.

Amy noticed an article in Volume One titled "Forging Creativity". Greg Johnson, the owner of Artisan Forge Studios, was featured. He and his wife have purchased the old Mid States Truck Service building at 1107 West Clairemont Avenue in Eau Claire. They are turning the service bays into spaces for artisans that want to rent space in order practice their craft. Greg is a metalsmith that currently does a lot of commercial ironwork. He has lots of tools that would be accessible to those that rent spaces. They include many welders, large metal bandsaw, power hammer, a CNC plasma cutter among other things. Paul Nyborg, a Badger Blacksmith member, is presently renting shop space. If this would be of interest to those who lack adequate shop space you can contact Greg at 715-456-5197. We may have a monthly meeting at his place later in the year.

One last reminder to pay your dues in January. We will not be sending newsletters in February to those who have not joined for the new year. Thank you and I look forward to seeing you at our meetings.

John Grump
Secretary/Editor

Treasurer's Report

Brad Hegge reported an January 3, 2016 balance of \$3,721.99.

Other Neighborhood Smiths

Guild of Metalsmiths (GOM)

Martin Pansch, 8750 Yale Avenue, Young America, MN 55397.

www.metalsmith.org .

Lake Superior Metalsmiths (LSM)

The LSM meets the fourth Saturday of the month for potluck and meeting to follow.

Contact Norm Groehler @ 715-399-8151.

Northern Minnesota Metalsmiths (NMM)

The NMM meetings are the first Monday of the month. Often, but not always, at Keith Johnson's shop in Bemidji. Contact Keith at: keith@greatriverforge.com .

Central Minnesota Blacksmiths (CMB)

Meeting schedule Monticello, MN, (763) 295-4632. Updated schedule pending.

UMBA

Visit: www.umbaonline.org/events.htm l.



Buy, Sell, Trade or Wanted

Steel Towne Complete line of steel (by inch or lb.). N7102 SR 40 Elk Mound, WI 54739 (715) 879-5559 and a **new location** at 235 State Highway 35, River Falls, WI (715) 425-1138

Membership

There are no new members this month. We currently have 57 members.

Up-Coming Events

Badger Blacksmith 2015 Meeting Schedule

January 16	Reseburg Town Hall	9:00 to 4:30	Meeting and Demonstration
February 20	Brad Hegge	9:00 to 4:30	Meeting and Demonstration
March		9:00 to 4:30	Meeting and Demonstration
April 16	John Grump	9:00 to 4:30	Meeting and Demonstration
May 20-22	Spring Conference	9:00 to 4:30	Classes / Forging
June		9:00 to 4:30	Meeting and Demonstration
July 30	Gary Hennig	9:00 to 4:30	Meeting and Demonstration
August 12-14	Pioneer Days	9:00 to 4:30	Open Forge
September 10	Don Hoganson	9:00 to 4:30	Meeting and Demonstration
October	Jared Riesenweber	9:00 to 4:30	Meeting and Demonstration
November		9:00 to 4:30	Meeting and Demonstration
December		9:00	Board Meeting

Information and Directions for January's meeting. The January 16th meeting will be at the Reseburg Town Hall, southeast of Thorp, WI. Take Highway 29 to Gorman Avenue. Go South 2.5 miles to the intersection of Gorman and Highway N. Address is N13710 Gorman Avenue. Don Hoganson is demonstrating coat hooks with a jig and horseshoe fish. Bring your gas forges, safety equipment and your tools and join in the hammering.

See attached map.

Websites of Interest

<http://www.spaco.org/bk.htm>

Pete Stanaitis has a blacksmith section of his website. Say hello to Pete and Sheri.

www.forums.dfoggknives.com

Blacksmith's forum board.

www.iforgeiron.com

This site has over 600 how-to tutorials. Registration is quick and free.

<http://www.tunnelmillcrafts.com/> John or Carol Adams run classes at Tunnel Mill Crafts.

www.purgatoryironworks.com Free on-line forum and member subscription
blacksmith demonstration videos.

www.badgerblacksmith.com Our website, which is the work of Jared Riesenweber.
Any comments or suggestions should be directed to Jared.

www.abana.org ABANA is the Artist Blacksmith Association of North America.
We are an affiliate of ABANA.

Tips, Techniques, and Inspiration

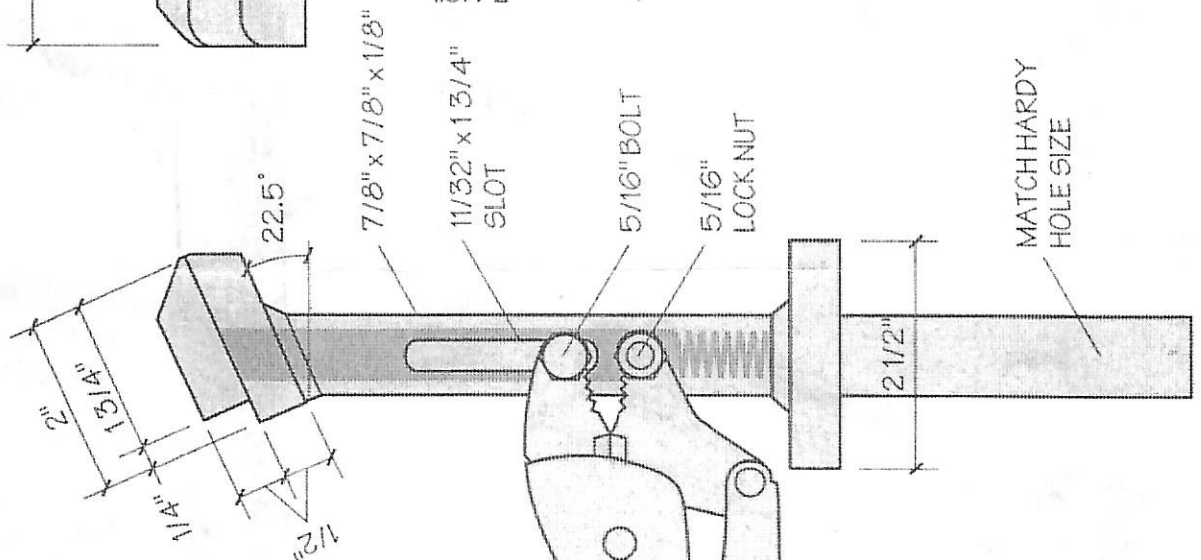
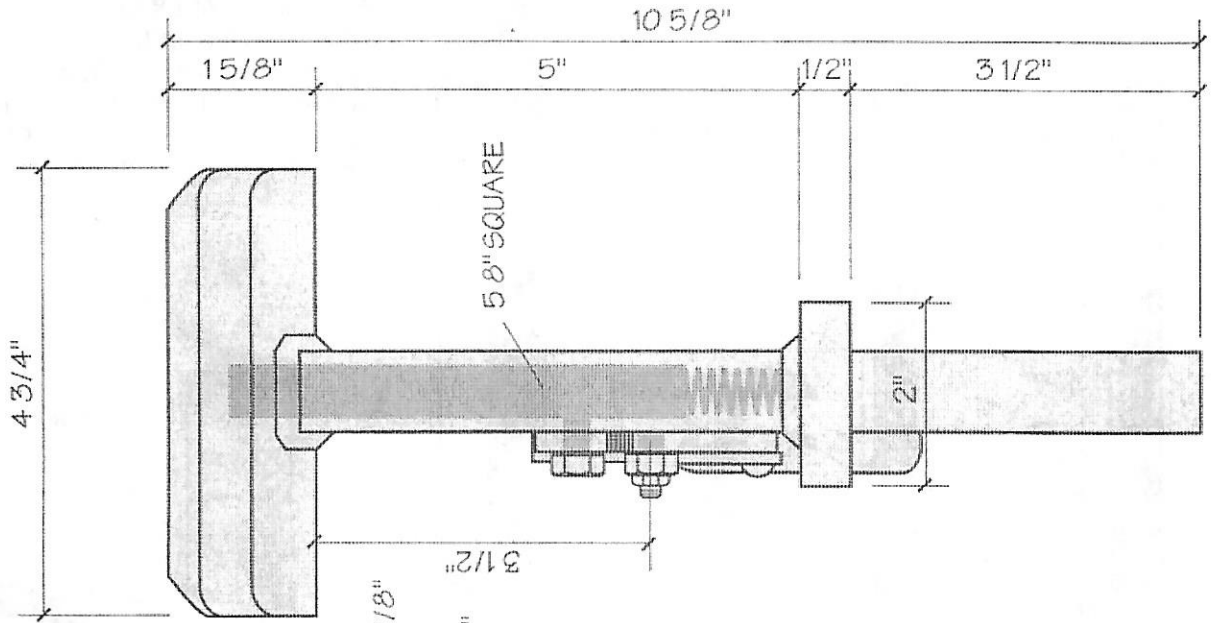


“Fear has never been a good advisor, neither in our personal lives nor in our society”, Angela Merkel, statesperson .

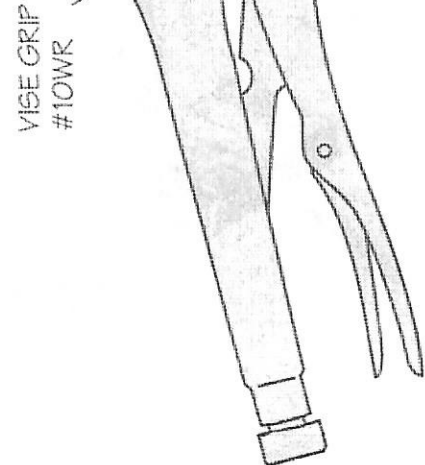
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The following are from “The Blacksmith’s Journal” April & November, 1995.

FILING VISE

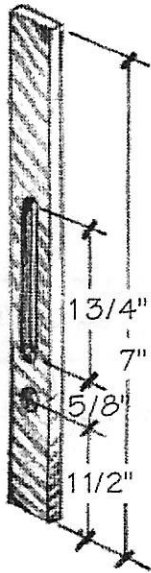


The hardy stem of this vise allows use at the anvil or at a bench or post vise. It is used for holding a wide variety stock at a good angle for filing edges and profiles. It is especially well suited for hot rasping at the anvil.



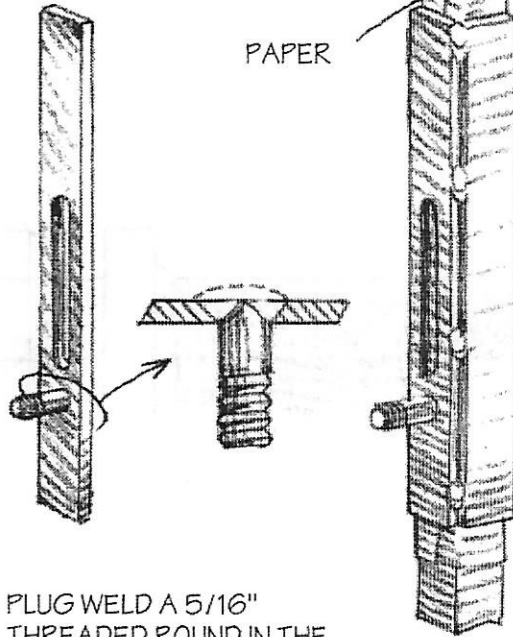
1/2 SCALE

218-1



DRILL AND MAKE A SLOT IN 1/8" x 5/8" STOCK AS SHOWN.

218-2

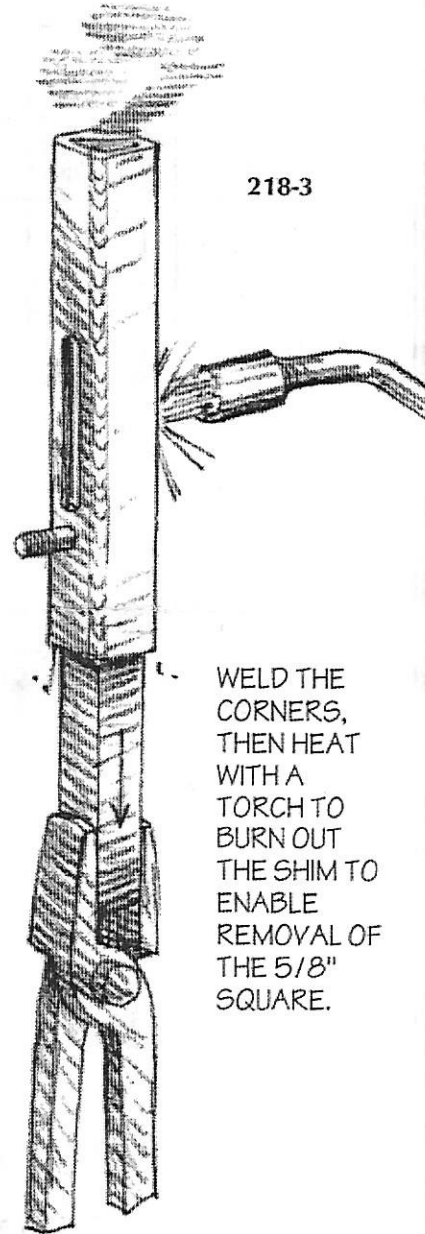


PAPER

PLUG WELD A 5/16" THREADED ROUND IN THE HOLE. MAKE A DEEP WELDING GROOVE AND GET GOOD PENETRATION.

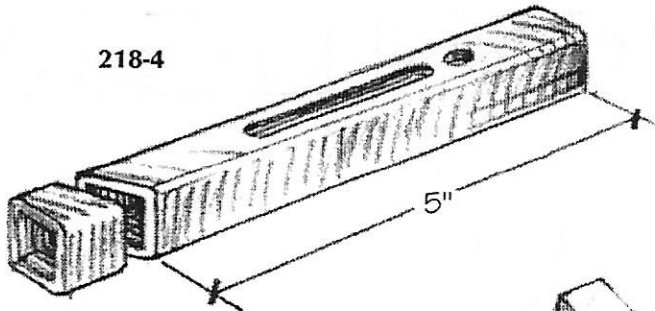
CLAMP 5/8" x 1/8" STOCK AROUND A PAPER SHIM WRAPPED AROUND 5/8" SQUARE STOCK. TACK WELD THE CORNERS. HINT: CHAMFER THE EDGES OF THE 5/8" SQUARE SO THAT IT IS NOT WELDED TOO.

218-3



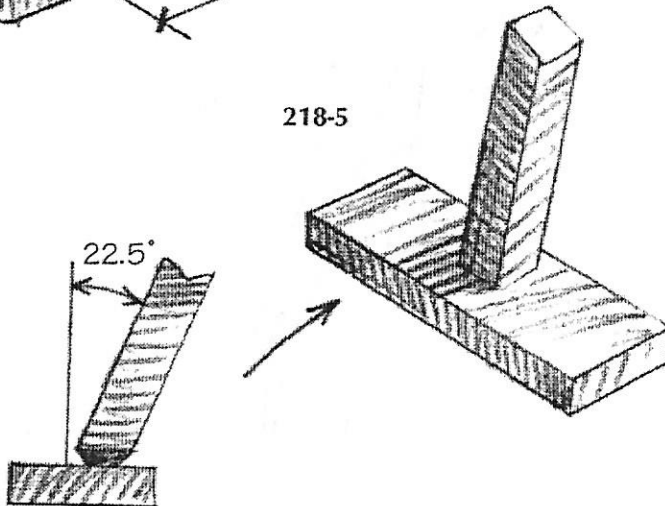
WELD THE CORNERS, THEN HEAT WITH A TORCH TO BURN OUT THE SHIM TO ENABLE REMOVAL OF THE 5/8" SQUARE.

218-4



TRIM AT 22.5° AS SHOWN.

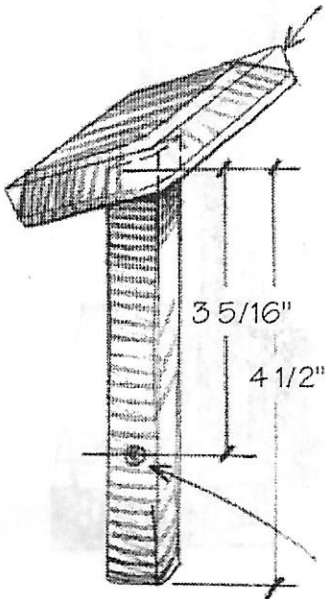
218-5



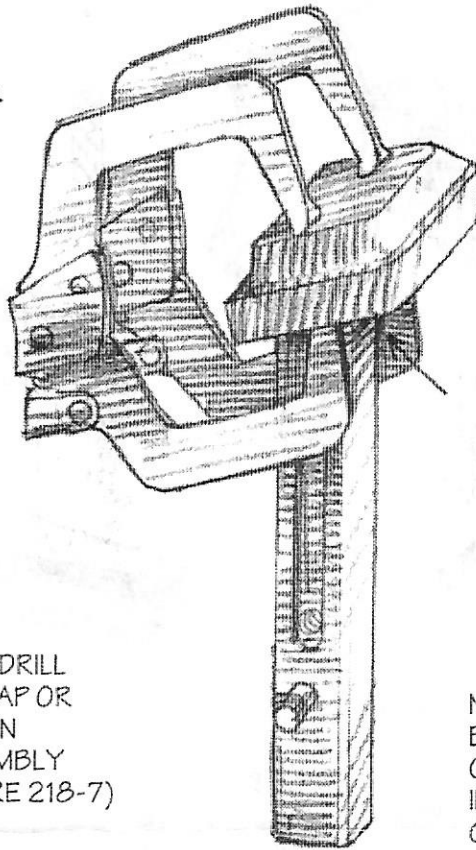
WELD 5/8" SQUARE STOCK TO 1/2" x 1 3/4" x 4 3/4" TO MAKE THE TOP JAW. GRIND AND FILE SQUARE INSIDE CORNERS WHERE WELDED.

218-6

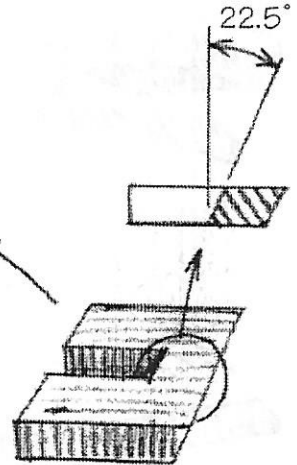
GRIND THE EDGES ON THREE SIDES.



TRIM TO SIZE AND FINISH.

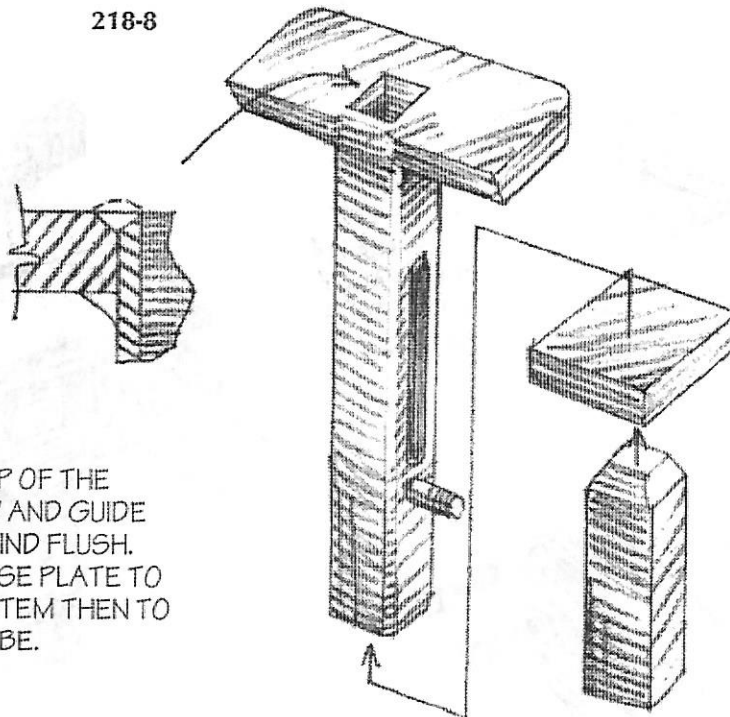


218-7



NOTCH AND GRIND THE BOTTOM JAW, THEN CLAMP IT TO THE TOP JAW IN ASSEMBLY WITH THE GUIDE TUBE. WELD THE BOTTOM JAW TO THE GUIDE TUBE.

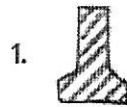
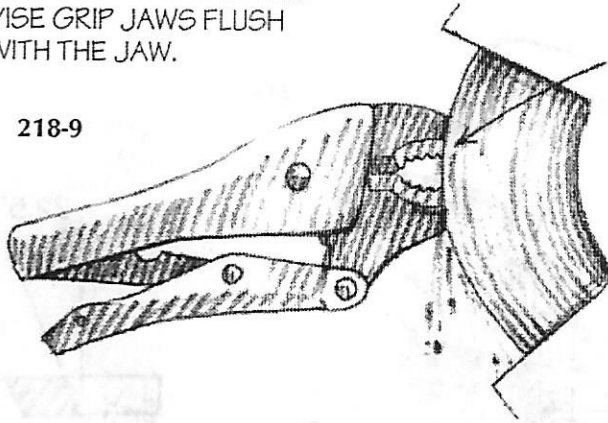
218-8



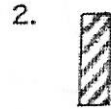
WELD THE TOP OF THE BOTTOM JAW AND GUIDE TUBE AND GRIND FLUSH. WELD THE BASE PLATE TO THE HARDY STEM THEN TO THE GUIDE TUBE.

GRIND THE EDGE OF THE VISE GRIP JAWS FLUSH WITH THE JAW.

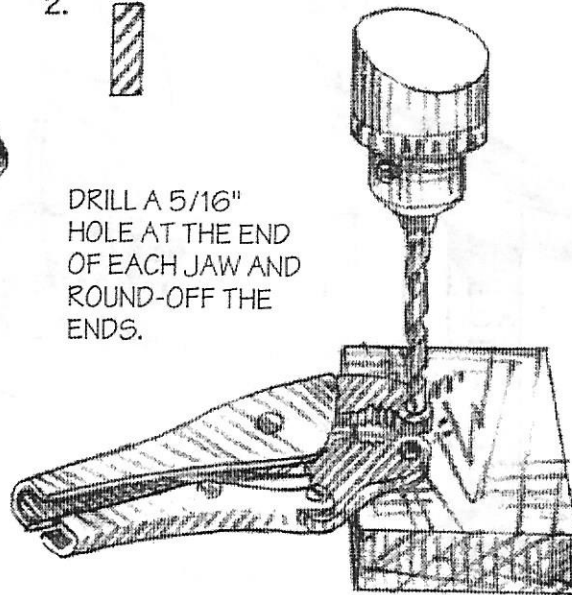
218-9



218-10

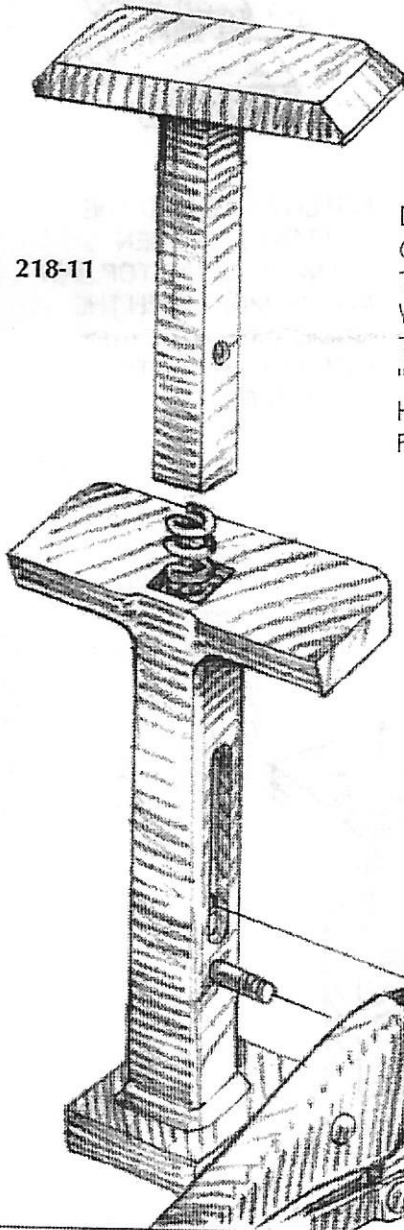


DRILL A 5/16" HOLE AT THE END OF EACH JAW AND ROUND-OFF THE ENDS.



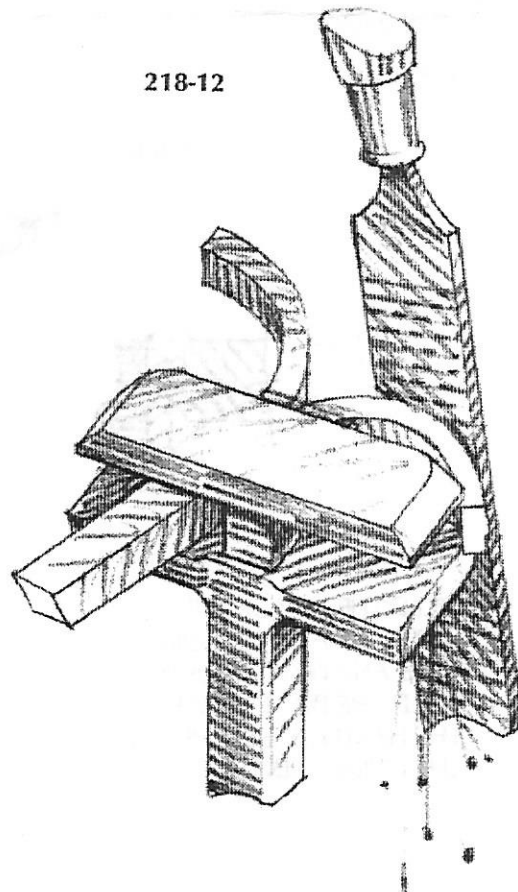
218-11

DROP A SPRING IN THE GUIDE TUBE, INSERT THE TOP JAW AND BOLT THE VISE GRIP IN PLACE. THE TOP JAW BOLT SHOULD "BOTTOM OUT" IN THE HOLE. USE A LOCK NUT FOR THE BOTTOM JAW.



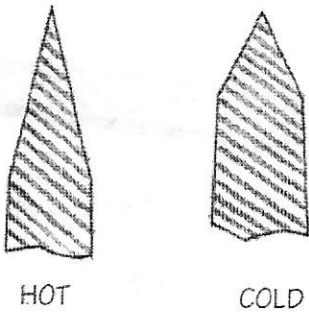
218-12

A TYPICAL USE OF THE VISE SHOWING THE REMOVAL OF BURRS BY HOT RASPING.



HOT CUTTING EDGES

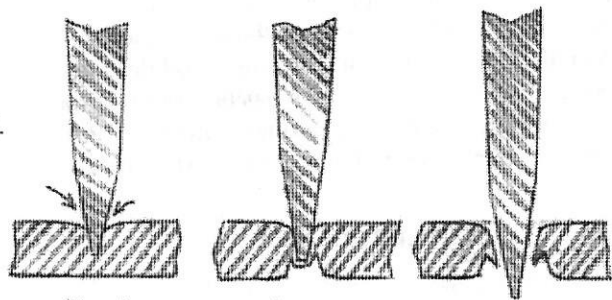
201-1



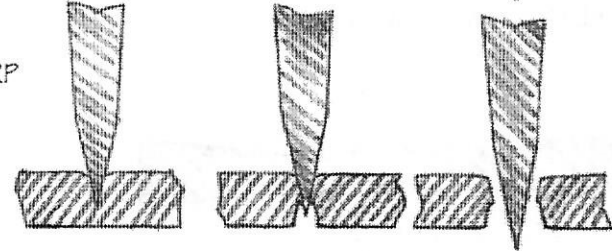
HOT CUTTING CHISELS SHOULD BE GROUND AT A STEEPER ANGLE THAN COLD CUTTING CHISELS. THE ANGLE SHOULD BE AS STEEP AS THE STEEL CAN WITHSTAND WITHOUT BENDING OR BREAKING. "RED HARD" ALLOY STEELS EDGES CAN BE STEEPER THAN STRAIGHT CARBON STEEL EDGES.

201-2

DULL



SHARP

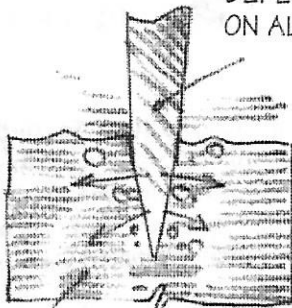
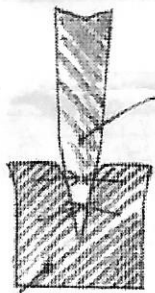


SHARP HOT CUTTING TOOLS MAKE A CLEANER CUT THAN DULL ONES. DULL TOOLS LEAVE A LARGER BURR.

201-3

NARROW BLADES SOAK HEAT FROM HOT METAL QUICKLY.

BLADE AT HEATS UP TO 900° DEPENDING ON ALLOY.



STOCK AT HEATS UP TO 2000°.

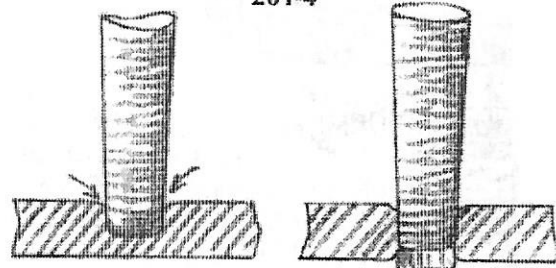
WATER AT ROOM TEMPERATURE QUICKLY SOAKS HEAT OUT OF BLADE.

BLADES MUST BE PERIODICALLY QUENCHED IN WATER DURING USE EACH TIME THEIR TEMPERATURE APPROACHES THE TEMPERATURE AT WHICH THEY WERE TEMPERED.

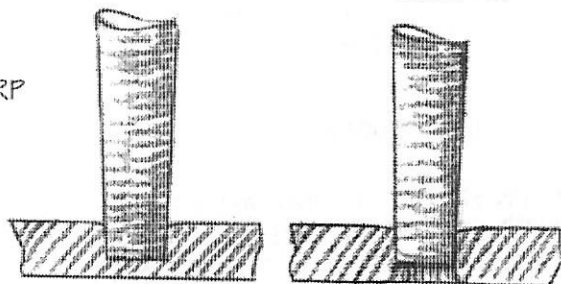
DULL HOT PUNCHES DEFORM THE STOCK AROUND THE HOLE MORE THAN SHARP ONES AND ARE MORE DIFFICULT TO START. SHARP PUNCHES SHEAR THE PLUG CLEANLY; DULL ONES PUSH THE PLUG THROUGH THE HOLE.

201-4

DULL



SHARP



DIALOGUE

Scroll Tool & 1/2" Bender (re: fig.54-1-54-4) I'm enclosing sketches of a couple of tools that I use often in my shop. The scroll tool is something I found in an old blacksmithing book; it's a slightly improved design as the raised center makes the scrolls easier to start. The bender is an adaptation of a Donald Streeter (Prof. Blacksmithing) design. -Brian Gilbert, St. Petersburg, FL.

SCROLL TOOL

START WITH A BAR OF 3/8" x 1" MILD STEEL (1/4" WILL WORK FOR LIGHT STUFF).

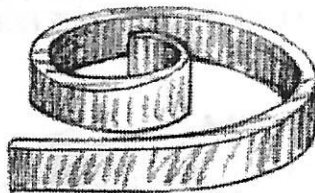
FLATTEN THE END



STRAIGHTEN ONE EDGE



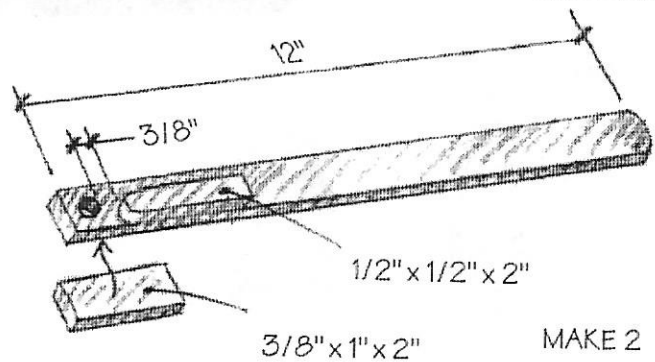
TRIM THE END



FORM THE SCROLL WITH BENDERS. THE RAISED CENTER PROVIDES CLEARANCE TO MAKE STARTING SCROLLS EASIER. WELD ON A SQUARE STEM TO FINISH.

1/2" BENDER

THE EXTRA LENGTH OF THE PINS GIVES THE BENDER EXTRA STRENGTH TO BEND 3/8" COLD TO A 1/2" RADIUS. IF YOU CLAMP THE ROD IN A VISE, BOTH HANDLES CAN BE USED TO ADJUST BENDS. FOR EXAMPLE, YOU CAN ADJUST STAPLES SO THAT THE LEGS ARE EVEN.



ARC WELD...



...OR
FAGGOT
WELD



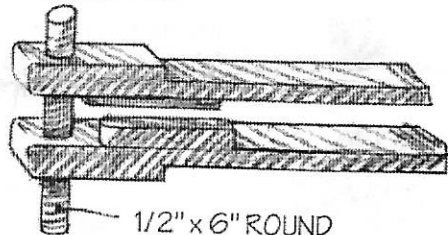
1/2" DRILL



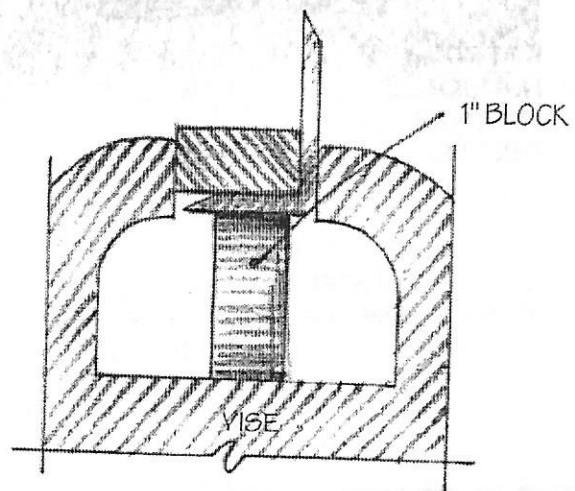
WELD ON
THE PINS



ASSEMBLE



Collars (re: fig. 80-3, p.209) To further improve my method for making collars, I now have a series of 1" square blocks, to allow for variations in sizes of collars. These blocks are put under the collar when making the second bend. -Francis Whitaker, Carbondale, CO





Notes

Reseburg Town Hall

Map of:
N13710 Gorman Ave
Thorp, WI 54771-7700



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