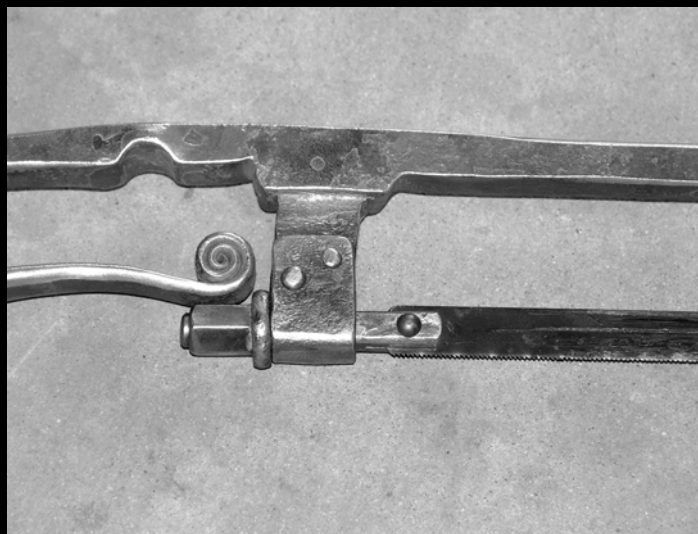


The Anvil's Horn

A Publication of: The Arizona Artist Blacksmith Association

Issue No. 135

November 2008



Shop hack saw. By Mo Hamburger
Complete instructions, with drawings, to
make your own on page 14

President's Message:

In thinking of an adjective that describes our last meeting in Camp Verde, the words that come to mind are "world class". What that means to me is that it just doesn't get much better! Let's start with Bill and Karen Morris's hospitality; they took really good care of us campers- fed us and made sure we had everything we needed, and the BBQ Sat. night was outstanding. Then the demos; Gordon and Chris's demos were chock full of good, practical information and ideas; the kind that anyone from a beginner to a pro would benefit from. The shop tours were an 'extra added attraction'; I didn't get to all the shops due to the Board meeting, but I'm glad I got to Bonnie and Dale's beautifully restored historic home, and Ray Rybar's well equipped shop. Thanks to all who opened their smithys to the ass'n.

Its pretty amazing that such a hotbed of blacksmithing activity has developed in the Verde Valley, and I hope to see more clusters of smiths grow in other areas. The advantages of having other smiths up the street are clear; you can borrow tools from them, pick their brains, and carpool with them to the demos. That carpooling will come in handy for our March meeting; Fred Borchardt is building a big new shop on his ranch near Wilcox, and has invited us to visit for the weekend. I've been to this beautiful ranch and, trust me, it'll be worth the drive. We'll meet there on the 4th weekend in March, rather than the usual third, and camping and motels are available.

Our next demo will be at Grizz's shop in Phoenix; Fred Zweig on Chasing and Repousse. You know, with the holidays approaching, the November meeting used to be our least attended, but having it at Roger and Jason's changed all that, much to their credit. They'll set up cameras and TV screens so the fine work will be visible, and the vessel challenge will allow us to show each other our creativity

Several of us demonstrated at the annual Glow art party in Oracle in Sept.; thanks to David Flynn, Jon Molden, Kathy Smith, Steve and Bethany Fisher, Tidi Ozeri and Bill Ganoe. As usual, Bethany stole the show with her ultrafine flamework lanterns, but the rest of us got in some good licks also. Glow is turning into our own mini-Burning Man; speaking of which, anyone want to go to Burning Man next year?

Last but not least, by the time you read this, the auction will have happened. I'm sure it will have been a great success; a lot of fun for all who attend, and profitable for our scholarship fund. I sincerely thank Bonnie Harvey and everyone who helped, for their efforts and hard work.

I look forward to seeing you all at Grizz's shop and our other upcoming events.

Ira

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AABA DEMO: November 15

Grizzly Welding 1329 W. Lincoln St., Phoenix

Registration: 8:30 a.m. **Demonstration:** 9 a.m.

Registration Fee: \$10 Members \$15 Non-Members

Fred Zweig

My interest in metalwork began during the 70's and has continued. My work is concentrated in the processes of forging, raising and repousse/chasing. I work as a mechanical designer to support my family and teach metalsmithing workshops a few times a year. I am in debt to all those who preceded me and those who continue to keep this craft/art alive.

Fred will be demonstrating Chasing and Repousse

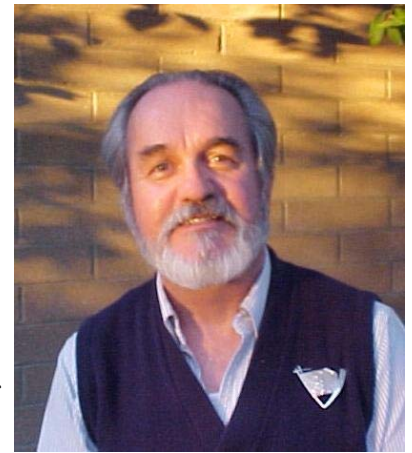
- Tailgating –bring your stuff
- Lunch on your own.
- Bring something for Iron in the Hat.
- Show and Tell –everyone enjoys seeing what you are doing.

Vessel Challenge Bring your Vessel!

This is what we've all been waiting for – the chance to show your vessels. There is still time to get one made - have at it! Beginner or expert all levels are encouraged to participate and have fun.

A vessel can be anything that can hold or contain something. It must have metal in it but does not have to be entirely metal.

As always, safety glasses are required.



Directions to Grizzly Welding:

1329 W. Lincoln St., Phoenix

Take I-10 to 7th Ave, by the tunnel
Exit on 7th Ave.
Go South on 7th Ave to Grant
Turn right on Grant
Turn right on 13th Ave
Turn left on Lincoln
It's on the left.

September Demo Report: Photos by: Bonnie Harvey and Dan Jennings

What an incredible weekend we had at Camp Verde! So many people came together to make it the most action packed demo weekend AABA has ever had. Thanks to: Bill and Karen Morris who hosted, organized, and fed a bunch of us several times. Gordon Williams, who demonstrated non-stop for 8 hours (most of us took a break for lunch, but Gordon kept working). Chris Contos, who showed up bright and early Sunday with tools and techniques to further amaze the crowd. Shop owners George Alexander, Ray Rybar, Marc Larson (we ran out of time before most folks got to his shop), who made their shops available for everyone to tour. Bonnie and Dale Harvey and their friends and family, who not only gave us a shop tour and a tour of the historic house, but also made Ice Cream for everyone. Wally Warnke who brought his guitar and played along with Bill to provide Saturday evening's entertainment. There were several more people who helped set everything up and take everything down. Thanks to all!



Gordon demoed all these and more.

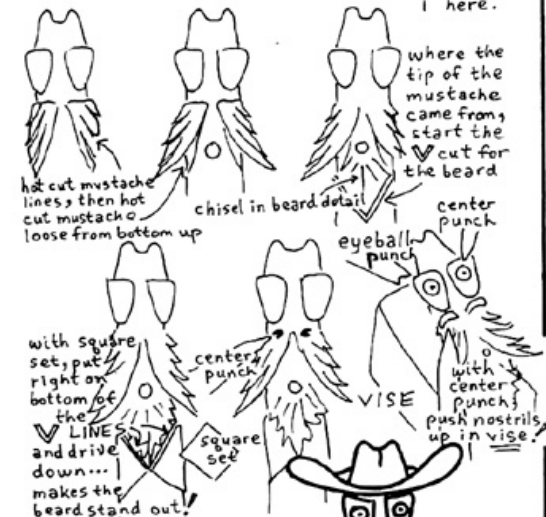
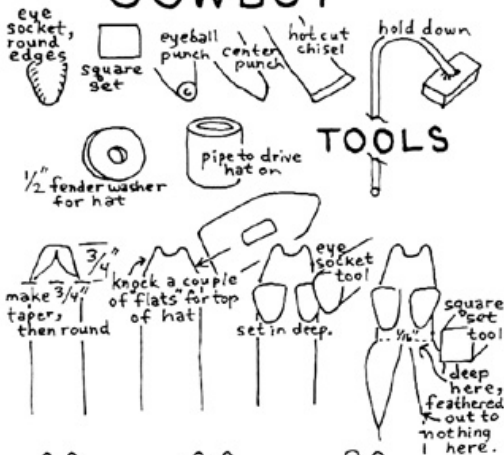


Chris brought a lot of show and tell. He demo'd the acanthus leaf, showed how to get the proper edge on an engraving tool, and made a few simple (simple to him) engraved shapes.





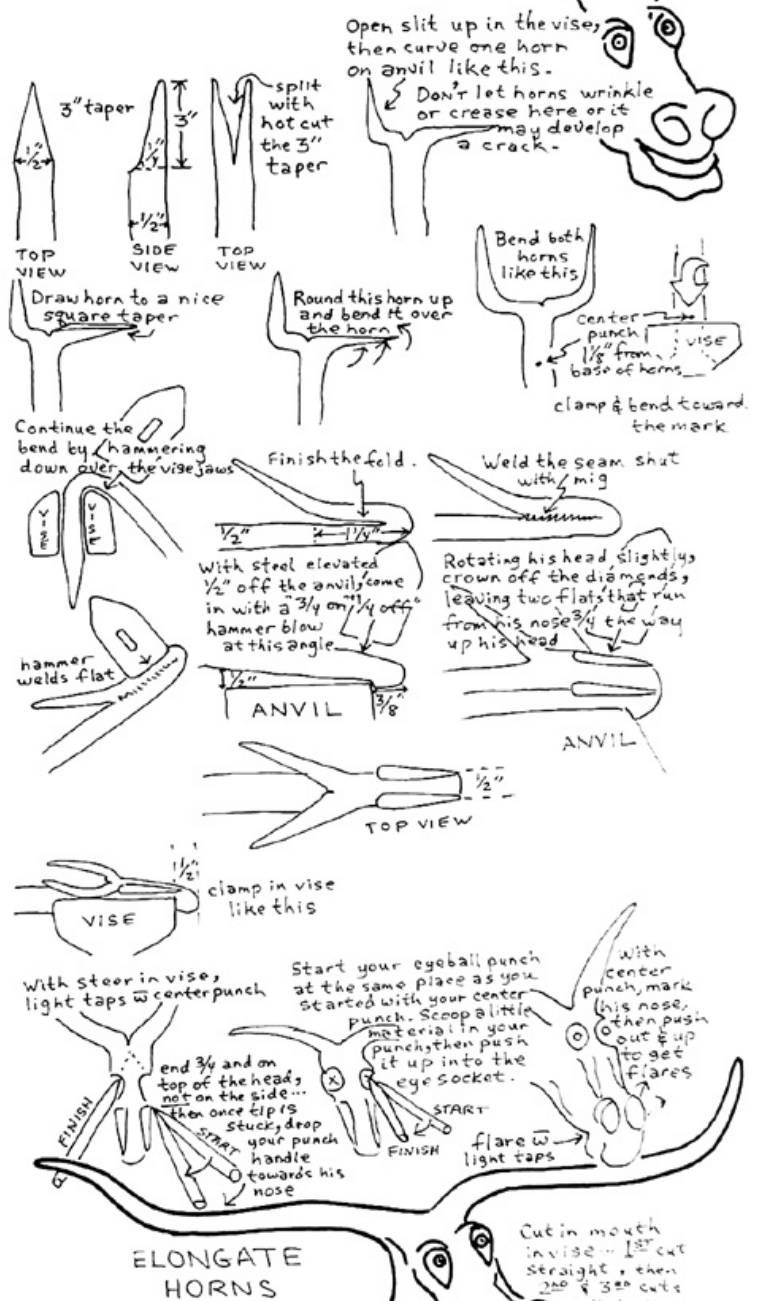
COWBOY



DRIVE ON WASHER FOR HAT USING PIPE. SHAPE HAT & WELD IN BACK OF HEAD.



LONGHORN STEER



great illustrations by Gordon Williams, copied by d.w. harvey
photos & computer by b. m'k harvey

CHRIS CONTOS demonstrated engraving techniques, cold cut chiseling, and forging an acanthus leaf.

TIP: make the divisions of a circle into a transparency...it's easier to see where to divide.

ENGRAVING IS "PLOWING the METAL"... ENGRAVING REFLECTS LIGHT, DEPTH & INTRICATE DETAILS.

A graver is a smaller version of a chisel set at a specific angle. When cutting steel use a big block of steel (3 inch) on a sandbag because you do not want it to bounce. Use chisel. When finished, it should break apart like cutting on a dotted line.



Activities South of the Gila: Glow Report

By Bill Ganoe

Several AABA members took their work to the public in mid-September, selling several pieces, demonstrating varying levels of smithing skills, attracting an interested audience, and giving some novice smiths a chance to improve their skills and gain experience at demonstrating in front of the public.

The demonstration was at GLOW on Friday and Saturday, September 12th and 13th. As described in the brochure, GLOW is "... an annual multimedia art event coinciding with the full moon. Located at The Triangle L Ranch in Oracle AZ, a short drive from Tucson, GLOW celebrates the work of dozens of visual and performance artists. There was an array of illuminated sculpture, light projections, installations and a gallery exhibition in the 1890's adobe barn. Attendees are encouraged to wear glow-in-the-dark attire and participate." Our forges, propane and coal, and the glowing iron contributed to the multi-acre light show.

Some readers may remember the AABA meeting at the Triangle L Ranch back in March 2006.

AABA members who participated included David Flynn, Ira Wiesenfeld, Steve Fisher, Cathy Smith, Bill Ganoe, and Tidi Ozeri. Steve's daughter, Bethany, also an AABA member, set up a tent next to the forging area where she demonstrated her skills using a small oxyacetylene torch to turn tin cans into attractive candle holders -- which sold very well.

Our demonstration attracted audiences that ranged from a single solitary soul to a large crowd. The biggest turn out was on Saturday night. Some people sat down and watched for half an hour or more. Many asked questions, and Ira handed out back issues of *The Anvil's Horn* to folks who expressed an interest in blacksmithing. Ira also reported that several pieces were sold.

The GLOW is an annual event, and it looks like it will grow as the years go by. Watch for the announcements of the 2009 GLOW next summer.



Setting up at twilight. (left to right) Unknown observer, David Flynn and Ira Wiesenfeld



Bethany Fisher getting ready to make some candle holders. Items on the table in the foreground were made by Steve Fisher.



Show time. Most of the audience is hidden in the shadows thanks to the limited range of the flash. (left to right) David Flynn, unknown woman, Ira Wiesenfeld.

Dumb Things Not To Do By Harold Hilborn

This story starts off about 30 years ago with a young man just starting off in the metal fabricating industry. He was always religious about wearing his safety glasses but when it came to hearing protection he never really paid attention to this because it did not seem to bother him.

Then one day a few years ago he realizes he can't hear on the telephone in his left ear and there is a constant ringing also. Off to the Doctor he goes and tells her his problem figuring it is just plugged with wax. But NOOO! She tells him you have suffered a major hearing loss, the kind a hearing aid will not help.

Fast forwarding to present time this man is working in his shop TIG welding parts all afternoon. Going back and forth to his bench grinder (which by the way, is a 8 inch Baldor industrial grinder which retails for about \$700.00). He finishes for the night, locks up and goes in the house. The next morning he comes out and starts work, goes over to the grinder to sharpen the tungsten turns it on, realizes it already is on and not working. Yes you guessed it. He left it on all night long and burnt up the motor. Left it on the last time he sharpen the tungsten and did not hear it running when he quit for the day. Now he is stuck with a cheaper Chinese grinder.

If you have not figured it out by now this person was me.

The moral to this story is to always protect your hearing no matter how minimal the noise is because hearing loss is gradual. It can cost you in more ways than one! A check list when you shut your shop down can also help.

Hammer Hoopla By Barry Denton

After 32 years of horseshoeing and having done a number of educational clinics for farriers and blacksmiths, I often discuss hammer balance. A number of folks seem to think this is a myth or just don't understand. In my mind hammer balance is established when you can cut a hammer exactly in half and both parts will weigh the same. That's right, crosspeins, straight pein, diagonal peins, ball peins, and rounding hammers can all be balanced correctly.

Balance is important for a number of reasons. The first and foremost is that if a hammer is "balanced" it will create less wear and tear on the body that is swinging the hammer. Secondly, if you are swinging a hammer that is heavy on one side and light on the other it will twist during the full swing. Now, because the hammer is twisting during the swing the blacksmith will have to compensate for that twist. When the smith compensates for the twist he is putting a lot of unnecessary torque on his arm, hand, shoulder, etc. While some of you may be pretty tough, and be able to handle this, I promise it will catch up to you one day in the future.

What is the most important ingredient in the blacksmith shop? Hands down it is "hammer control". Without it your work looks like crap. How do you develop hammer control? Primarily by concentration. Yes, you actually have to use your head when you are swinging a hammer. If you can train yourself to concentrate on each blow made, you will develop a fine swing and the all important "hammer control". Watch veteran blacksmiths or farriers when they are working. Normally they will have a beautiful swing. The beautiful swing also means they are thinking about each blow and their efficiency will be high. I have always thought that "speed" competitions bring out the real craftsmen, as hammer efficiency becomes the major factor.

I do realize that there are some of you out there that like to swing big clunky hammers for one reason or another and that's just fine with me. If you ever learn to swing a balanced hammer you will throw your clunky hammer away. However, if you want to be the best at what you do, then develop a great hammer swing with concentration and a balanced hammer. Besides, haven't you noticed the guys with the best hammer swings get the best chicks? Now if you are a "chick" blacksmith guys will never appreciate your hammer swing. The way to get them is by baking the best cookies.

CALENDAR 2008-2009

November 15	Demo Fred Zweig	Grizzly Welding	Phoenix, AZ
January 17	Demo Henry Pomfret	Sahuaro Ranch	Glendale, AZ
March 28 & 29	Demo	Fred Borchardt's	Wilcox, AZ
May 23 & 24	Demo, Music and Stuff	The Denton's Bar-U-Bar	Skull Valley, AZ

Coming Demos

January Demo: British blacksmith, Henry Promfret, will be at Sahuaro Ranch on January 17 .

"I worked as a self-employed blacksmith from 1984-1991. From 1992 to 1995 I taught blacksmithing in Botswana and on my return worked as a journeyman smith in the UK until 1999. I have taught blacksmithing at Herefordshire College of Technology, Hereford, since 2000, teaching at all levels from foundation, through diploma to degree. Also in 2007 I was admitted as a Licenciate to the Worshipful Company of Blacksmiths."

Attending a Henry Promfret demonstration is, for most of us, a once in a lifetime opportunity. You won't want to miss it!

OPEN HOUSE

SHOW & TELL

LEN-MO-PETER

9235 N. 10th Drive - Phoenix AZ.
December 13, 2008 (Saturday)
9AM – 12:30pm

Mo, Peter, and I would like to invite you to come to our shop area for a SHOW & TELL Open House. The purpose of the gathering is for attendees to bring a JIG or FIXTURE and the item/part made from it – show it and tell why and how it was developed and used. You are encouraged to bring more than one. Since this is an open house, your friends are welcome. Please note, this is a non-charge activity. If you do **not** have a fixture or Jig you are still invited to attend. Come learn and enjoy some very good company.

Len...

Call to Tucson and Southern AZ Blacksmiths!

Have you lost that loving feeling? Are your propane tanks empty? Did the monsoon just wash down your coal pile? Can't remember the last time you lit your forge. Or maybe you miss just shooting some bull with your old blacksmith buddies. May be you are new to the AABA and need some know how on how to build your self a forge or buy some used tools. You might not even be set up yet and just want to get some thing hot and hit it hard.

Well, fall is here and the nice weather is upon us. Are any of you interested in some Saturday morning get togethers? If so, give me a call (520) 603-6723 and lets pick a Saturday in November and get it started. We can meet at my shop first.

Harold Hilborn

Deadline: December 7 for the January issue of the Anvil's Horn. Earlier would be greatly appreciated. Articles, photos, notices, and ads can be emailed to: Danshammer@cox.net or mailed to AABA 2522 W. Loughlin Dr. Chandler, AZ 85224

The AH Needs your Photos, Articles and Shop Tips

We really need some great color photos of your work for the front and back page. Send'em in along with your articles, tips and photos! Your newsletter is only as good as your input.
Danshammer@cox.net

Thanks for sending in your 2008 Dues.

AABA Website: AZ-blacksmiths.org

Blacksmithing Demo: Dorothy Stiegler & Jacob Hill

Peih Tool Company, Inc is hosting a 2 day blacksmithing demonstration. Dorothy and Jacob will demonstrate how to forge bronze. Dorothy is renowned for her forged flowers and leaves and will incorporate these as well as forge welding, square corners and tons of helpful tips into the demonstration.

Dates: March 14-15, 2009

Time: 9:00—5:00 each day

Location: Pieh Tool 661 E Howards Rd Ste J
Camp Verde, AZ 86322

Cost: \$75.00 Early payment by 1/31 is \$65
Www.piehtoolco.com for more info

**Space is limited to only 100 people, Reserve
your place now. Tel 888-743-4866**

Limited dry RV and tent camping is available at Bill and Karen Morris' for no charge. Contact Bill for more info: 928-567-2804 .

Gordon William's Classes at Pieh Tool

Gordon teaches all the great stuff you saw at the September demo (or missed if you didn't go) and more!

Beginner/intermediate classes will be offered on the following dates:

Nov 21-23

December 5-7

January 9-11

Other classes are listed on line.

Cost is \$455 per class and includes all materials and supplies. Classes are limited to 6 students.

Lodging is available at Pieh Tool or several nearby motels and RV parks.

For more info: www.piehtoolco.com
Or call: 888-743-4866

This is not an AABA event.

AABA New Member and Membership Renewal Form

NAME _____
ADDRESS _____ CITY _____ STATE _____
TELEPHONE _____ EMAIL _____ ZIP _____
PROFESSIONAL BLACKSMITH _____ HOBBYIST _____ FARRIER _____
INTERESTED IN THE ART _____ TEACHER _____ OTHER _____
OCCUPATION OR SKILL _____

PLEASE CHECK ONE:

REGULAR MEMBERSHIP (\$30) _____

FAMILY MEMBERSHIP (\$35) _____

Make Check Payable to AABA

Mail to: Mary Ann LaRoche
AABA Membership
1775 E. Ocotillo Rd.
Phoenix, AZ 85016

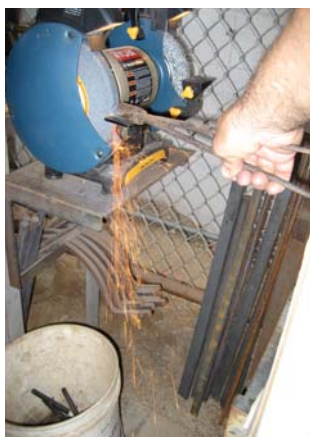
Am I A Blacksmith Yet ???

By Len Ledet

On the lower right hand corner of my leather shop apron there are three cut *fringes*. They were put there by Dan Jennings several years ago, when we were in a Mark Aspery Joinery class. Mark related a story to the class about King Arthur and Camelot, and why the blacksmith was made King Of The Crafts. *"Sire, I make my own tools, and those of others. That is my trade."* King Arthur - *"Smith! By your hammer and hand all crafts do stand! You shall be seated at the top of the table."* The fringe became our symbol – our crown. How the *fringe* came about can be found in Mark's book *The Skills Of A Blacksmith – Volume I – Mastering The Fundamentals Of Blacksmithing* – page III, a very good book. The point is we not only create *things* for others but we construct the tools needed. This, as King Arthur said, sets us apart from other crafts. Well, back to the question – am I a blacksmith yet?

Have I made tools? Yes - in a number of classes and jigs and fixtures for projects I have worked. For a blacksmith, tongs and hammers are essential. Dan recently conducted a local Fundamentals Class which I got to observe. Part of the class was to *forge* a pair of tongs. The design was really good, I went back to my shop and *forged* 6 pair of different sizes. I was beginning to feel like a blacksmith.

What else – a hammer had to be next.



Forging a hammer – it started with a 1 ¼ inch hex bar about 16 inches long. I took it to a grinding wheel and did a spark test. Compared it with a plain carbon steel bar, and guessed its carbon content was higher. Seemed to be OK for a hammer. I decided to forge a hammer head on each end of the bar. I used my

tire power hammer to first forge the peen end of the hammers. An angle cross peen and regular cross peen were to be forged. The eye for the hammer heads were started by utilizing my treadle hammer. A very short punch on a twisted handle was used. The location for the eye was centerpunched on both the top and bottom of the stock.



Slot punching was thus from both sides. The eye slots were established through the use of the treadle hammer, slot punch, hand hammer and anvil.

The key to not destroying the punches is to NOT let them get too hot. Two or three hits and out of the eye they came. I rotated the punch and once again two or three hits and out to cool. Each heat the heads were rotated so I was forging from the top and bottom. The picture shows the stock with peens forged on both



ends. The slot punch and my anvil "hold-down". It was time to run the drift through once the slot punch was through.

The process was repeated for the other side of the stock, thus the second hammer head eye was completed. Measurements for balance were taken and the heads were cut with my abrasive cutoff saw. Shown in the picture are the tools used for punching the hammer eyes and the





finished head. The short punch on the twisted wire handle was used under the treadle hammer, the slot punch and drift used with a hand hammer on the anvil. Time to heat treat. *To Harden* - the heads were brought to a red heat and since I did NOT know the carbon content, they were quenched in oil (if carbon content high - water quench may be to severe). The entire heads were heated and quenched. Next process was to *Temper* the heads. A toaster oven set at 480 degrees was utilized. They were kept in the oven for a little more than two hours. A file test confirmed that the hardness was OK. Final grinding and sanding and polishing

were the last steps prior to setting the handles.

Yes it felt good to forge these hammers. It was fun and I felt that I was getting closer to being able to be called a blacksmith. However there is a MAJOR problem for me. My shop is on the same site with Mo Hamburger and Peter Sevin. Once a day I visit with them in their shops. After each visit I understand I still have a long way to go - but the path has been very fulfilling.

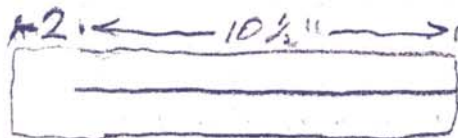


Shop Hack saw

M. Hamburger

1/2 x 1", 12 1/2" long

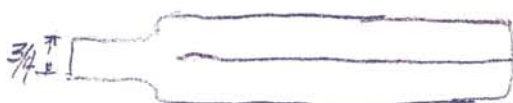
1/4", 7/8" fuller 1/2"



split bar down the middle, 10 1/2", Band-saw or hot cut.



5/8" from end of cut fuller to leave 3/4" between fuller marks



Draw out end to 1/2 x 3/4



side view

fuller to 5/16"

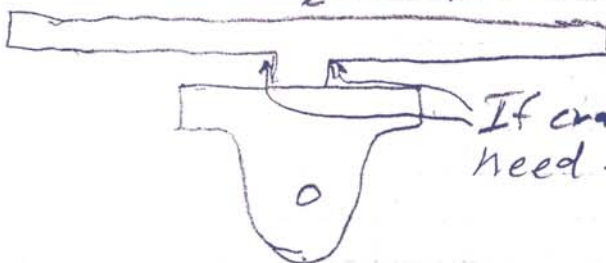


side view

Forge, draw out this area to 5/16 x 3/4, length doesn't matter at this time

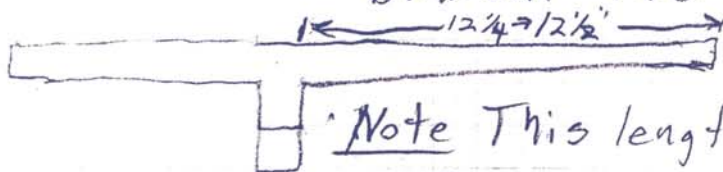


Forge this area Flat



If cracks develop need to file out

Draw out this area for blade



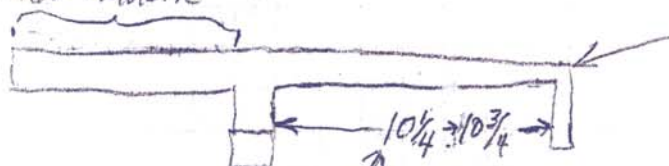
Note This length

for approx. 2" throat for Blade

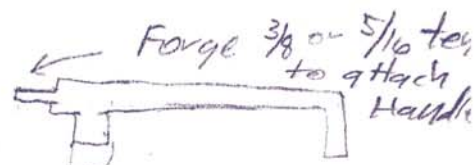
leave end larger for front Blade connection

#2

Hacksaw (cont)

This material
for handleif this area too
short, draw out
some more.Bend 90° forge
sq. corner if you
desire, be aware
of cracks on inside
of bend.Draw out for
Handle, NoteMay not need all the
10±" of 1/2 x 1/2 stock

(Need 5 or 6"??)

5/16 x 3/4 will be
cut to length
Later

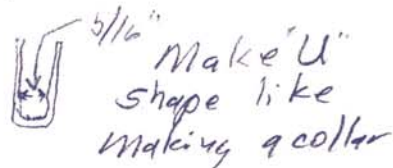
Alternative option

Bend Handle as you desire

cut slot for blade &
drill Hole for pin.I use 1/8 Rivets for pins
they will bend, with
use.Will need some space,
clearance, in this area
for Wind nut or nut to
tighten Blade.

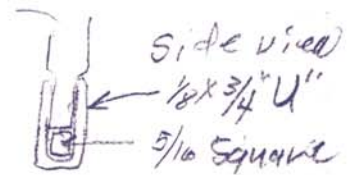
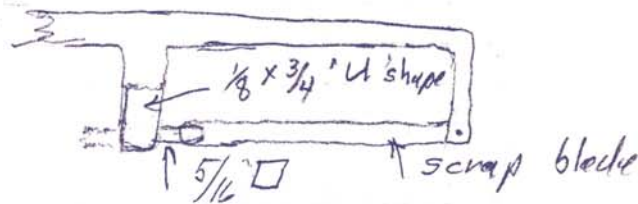
Blade Tightening mechanism

1/8 x 3/4 approx 2-3" long



5/16 sq. 3-4" long.

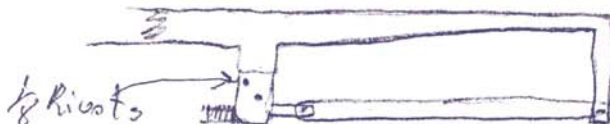
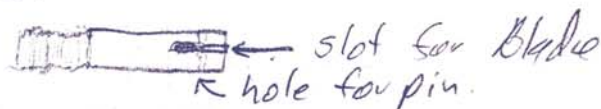
will cut to length
LaterRound to 5/16" for 1/2 3/4"
And cut 5/16-18 or 5/16-24
Threads.



Install worn out 10" blade and lay pieces together to determine how much of the $\frac{5}{16} \times \frac{3}{4}$ material on frame will need to be cut off. You may want this area longer than at front of saw frame or very close to the same.

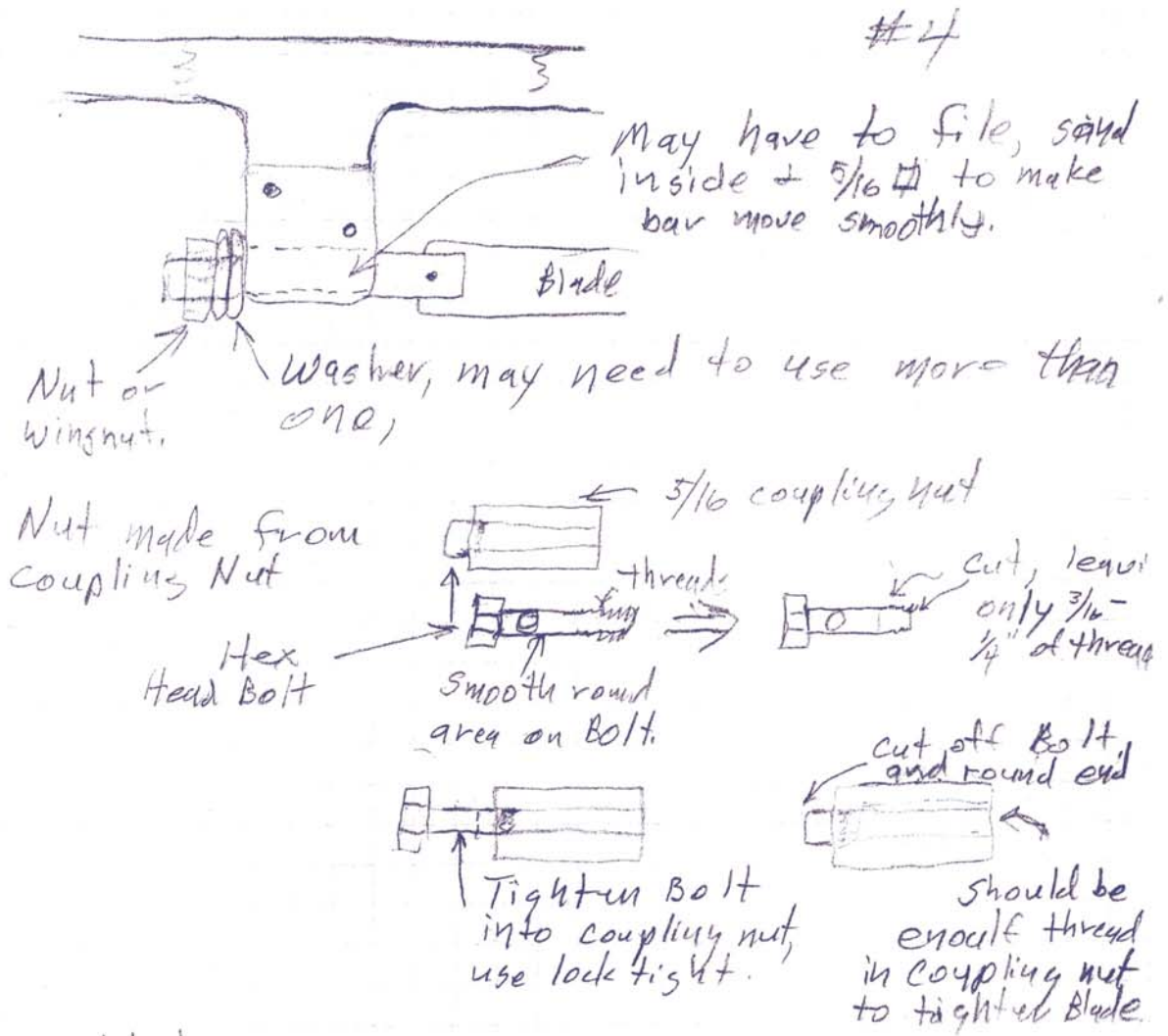
cut $\frac{1}{8} \times \frac{3}{4}$ "U" to fit, file grind if necessary

Insert $\frac{5}{16}$ and determine where hole needs to be drilled for rear pin. Some of the threaded area on the $\frac{5}{16}$ will need to be inside the $\frac{1}{8} \times \frac{3}{4}$ "U", so the blade can be tightened. Drill hole for pin in $\frac{5}{16}$ cut slot for Blade



Clamp $\frac{1}{8} \times \frac{3}{4}$ U to frame, I use small vice grips. Drill one hole & insert rivot, then drill other hole, hopefully nothing will move to much.

Put every thing together Try to get $\frac{5}{16}$ snug inside $\frac{1}{8} \times \frac{3}{4}$ U but still need to be able to move, file sand as necessary



Note

I call this a shop hacksaw because you will probably need to use tools to replace the blade. Most of the use for hacksaws in the shop are to cut small material, rivets, bolts, etc or to mark materials, so a deep throat is not necessary.

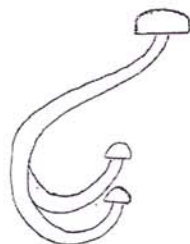
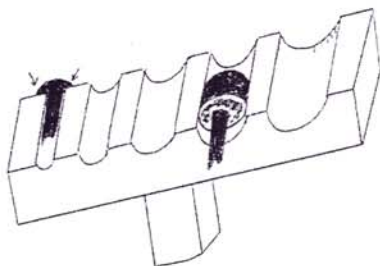
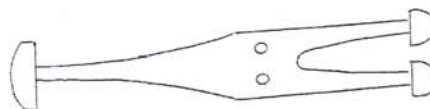
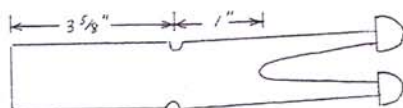
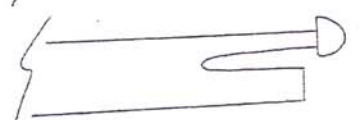
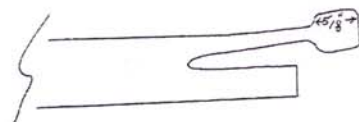
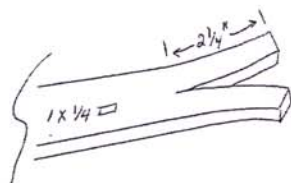
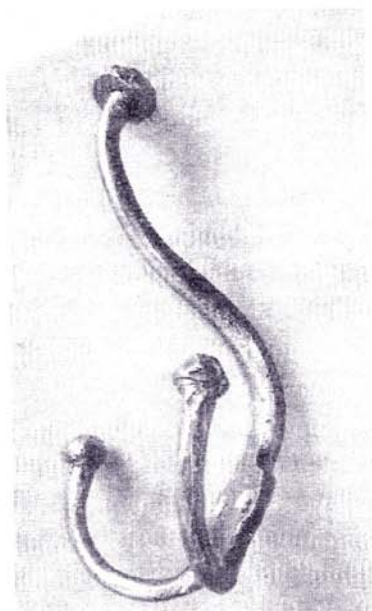
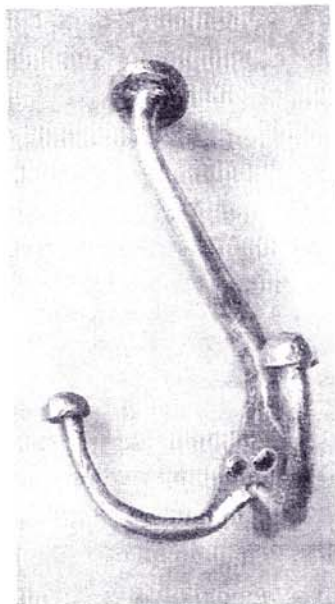
To make a Junior Hacksaw frame, scale everything down. Try $\frac{3}{8} \times \frac{3}{4}$ or $\frac{1}{4} \times 1$ " for Frame.

Coat & Hat Hook

By Steve Anderson

Drawings, text and photos by Steve
A MABA Member

Reprinted from The Upsetter, Newsletter
of the Michigan Artist Blacksmith's
Association, July-August 2008



Split stock with a hot cut.

*Put vertically in the vise to clean up
the end of the split.

Bend one leg up and one leg down.
Forge leg to round, leaving 5/8" of
mass on the end.

Forge the mass on the end to a
domed ball (or ball) shape. Repeat
for the other leg.

Fuller 1" back from the split and cut
off to length.

Forge tapered to round, leaving 1"
mass on the end.

Forge mass to a domed disc or other
desired shape. Drill and countersink
or punch and bob 3/16" holes.

To form ends:

- 1) Upset in vise
- 2) Round to a cylinder
- 3) Shape and center end

Bend bottom hooks first. They
should be about 45 degrees from the
wall and about 90 degrees apart. The
top hook should reach farther out.

Classifieds

Classified ads are free to members and can be submitted by email to: danshammer@cox.net or by mail to Dan Jennings 2522 W. Loughlin Dr. Chandler, AZ. 85224

Large Cone Mandrel \$600, Swage Block \$125. Gordon Williams 928-567-3681

Kinyon Simple Air Hammer , 75#. \$1500 OBO. Call Martin at 480-575-1947

For Sale, almost brand new Kreiger KPH 42G Power Hammer. This incredible 93 # hammer is imported from Germany. It delivers 200 blows per minute. It is mounted to a very large I-beam which is included. Purchased for over \$20k. Only \$8000. Call Chris Rowley (480) 804-0004. Email mrowley@northstarpipelines.

For Sale, newly built in-line treadle hammer, 45 lb hammer head, top & bottom hardy holes, grease fittings at all pivot points. Great for general work, chisling, punching, flattening and more. \$875.00 Paul Bradsher 602-228-2426

New style Kinyon air Hammer "Mark 2". 30 Lb head weight, total hammer weighs 565 Lbs. This hammer was made to be portable, short and light weight It will run on a 3 Hp compressor. \$2900 Ron Kinyon @ 602-568-8276

25# Little Giant Hammer-good condition
1 large coal forge
1 Buffalo blower
Contact Charlie Brown 480-948-4432

Two new/old e-books. Weiner Kunstmiedearbeiten (1928) and La Fidelle Ouverture de l'Art du Serrurier (1627). Now eight titles are available on CD \$4 ea. Or all 8 for \$24 postpaid. www.hammerguy@bellsouth.net or Brian Gilbert, 3404 Hartford Dr. Chattanooga, TN 37415

Sources

Rocky Mountain Smiths have videos available of their conference demonstrators. Most of these are high quality edited, multi-camera videos. For more info go to: www.rockymountainsmiths.org

Enco Metalworking supplies. 800-873-3626 or shop online at: use-enco.com

Bar U Bar Supply

The source for anvils, post vises, and other new & used blacksmith tools. Barry Denton ph 928-442-3290 email: barubarranch@gmail.com website: www.barubar.com

IMS (formerly Capitol Metals). Full service supplier of Steel, Stainless, Brass, Aluminum, Copper. 5150 S. 48 ST. PHX. 602-454-1500

Pieh Tool Company Inc.

Blacksmith Supplies, Coal, coke, & Kasenit #1 in 1# cans, 661 Howards Road Suite J Camp Verde, AZ 86322 888-743-4866 ,www.piehtoolco.com

Scottsdale Farrier Supply

Mostly farrier supplies, but has hammers, tongs and other blacksmith goodies. Ph. 480-838- 4455 863 E. Baseline Rd. Tempe 85283

MSC Industrial Supply Co. is a mail-order supplier of all kinds of industrial & metalworking supplies. You can get a 4500+ page catalog by calling 1-800-645-7270.

Norm Larson Books

Sells hard to get blacksmithing and knife making books. 800-743-4766 email: larbooks@impulse.net

Rock N' Rod CNC Plasma Cutting and custom CAD

Call John Doss at 623-229-8335 or email: cnc@enviromithaz.com

Brent Bailey. A blacksmith in California specializing in custom tools and ornamental forgings for artisans. www.brentbaileyforge.com

Pacific Insulation Company

Supplier of high temp insulating materials. Bricks, Kaowool and other refractories. 215 S. 14 St. Phoenix. 602-276-1361

Blue Moon Press, Ltd.

Metalwork books, some of which are only available through them. Bluemoonpress.org Toll free ph. 866-627-6922.



Inspired by demonstration in Flagstaff, Peter Jonasson made a twisted handle, railroad spike knife demonstrated by Steve Fisher. He followed Jim Sheehan's demonstration to make a fork and added a spoon to the handle end. The center item is a nice little salt spoon from a horseshoe nail. Peter is a motivated, 14 year old, beginning blacksmith.

Chris Contos. Engraved belt buckle with inlaid copper wings and gold anvil.



Knives by Bill Morris

Mary Ann LaRoche
1775 E. Ocotillo Rd.
Phoenix, AZ 85016

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