

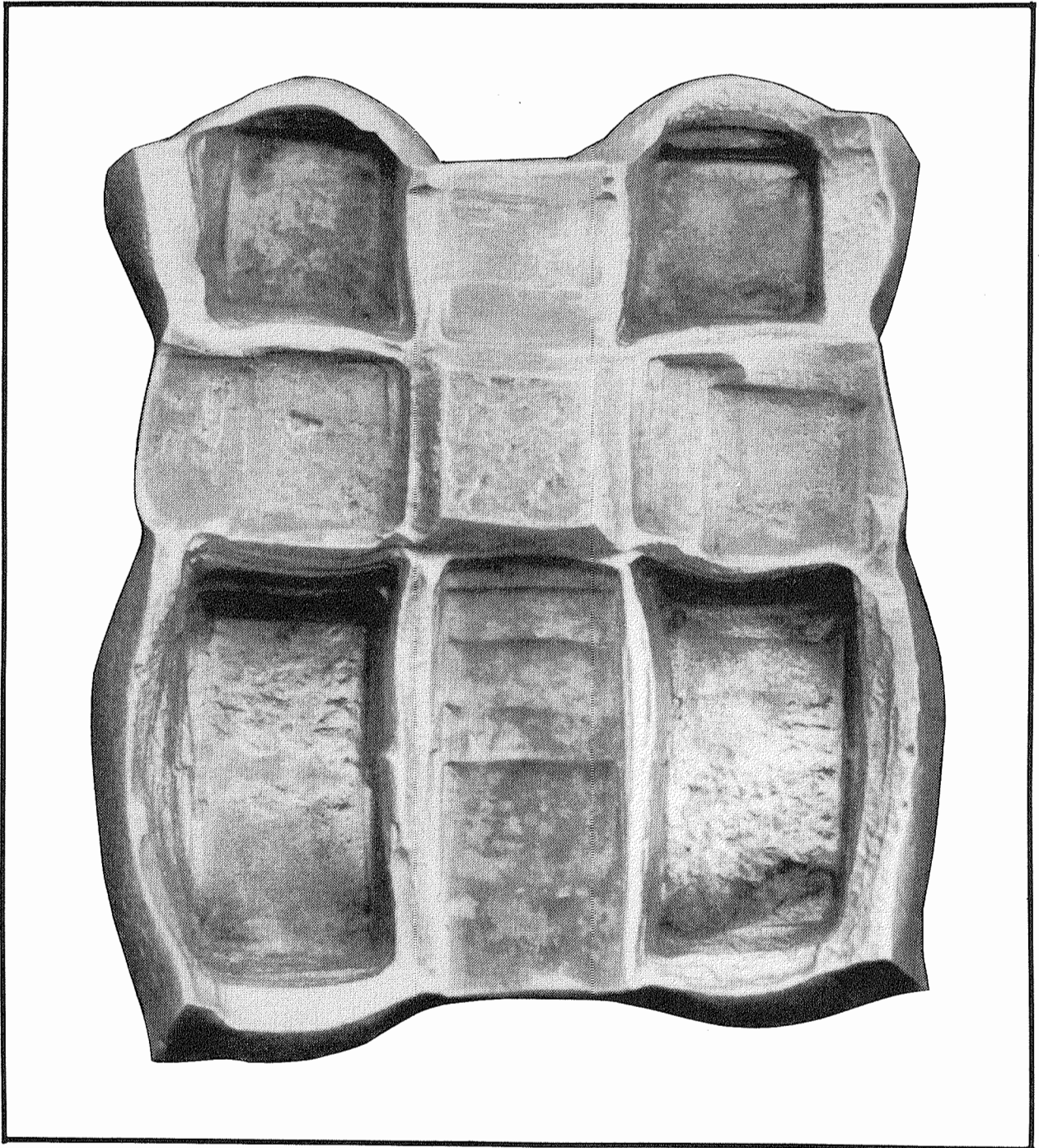


CHAPTER OF ABANA

\$2

# Hot Iron News

-- Voice of the Northwest Blacksmiths Association



MARCH 1990

**1989 NWBA OFFICERS AND BOARD MEMBERS**

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(208) 459-0536

**Monty Day**

1945 Onion Creek Road  
Colville, WA 99114  
(509) 732-4515

**ABANA 1990 CONFERENCE**

June 29th - July 1st  
Alfred State College, New York

**TOM JOYCE, MANFRED BREDOHL, SERGE MARECHAL, LEONARD URSO  
BOB BECKER, PHIL BLADWIN, GLEN GILMORRE, DAVID LATANE, ALEX KLAHM  
PETER ROSS AND THE WILLIAMSBURG BLACKSMITHS, RANDY MCDANIEL  
DAVID NORRIE, CLAIRE YELLIN, ROBERT GRIFFITH, PETE CASSIDY  
JACK ANDREWS, GLEN ZWEYGARDT, RAY NAGER, SIMONE BENETTON  
JOEL SWARTZ, MATHIAS PETERS, BILL SENSENEY, ED GROVE  
MITCH FITZGIBBON, DAN MARAGNI, CLAY SPENCER, CATHY MORGAN  
THE LMC CORP., FRENCH REPOUSSE RESTORERS OF THE STATUE OF LIBERTY  
ALBERT PALEY, FRANCIS WHITAKER AND NOL PUTNAM**

ABANA, Box 1181, Nashville, IN 47448

**Cover:**

**GRABKRUEZ** (Grave Cross) by Jay Burnham-Kidwell. Forged steel,  
8" X 10" X 1 3/4", 1990.

**NWBA 1990 SPRING CONFERENCE**

April 27th, 28th and 29th

Corvallis, Oregon

Featuring:

**JAY BURNHAM-KIDWELL**

Jay has been involved in metalwork and blacksmithing for over 15 years. He has an MFA from the University of Georgia and is currently Instructor of Metalsmithing at Mojave Community College at Lake Havasu, Arizona. Joe has also taught at Peters Valley Craft School and demonstrated for other blacksmithing organizations. Jay's training also includes five months at the International Training Center for Metal Design in Aachen, West Germany.

Jay Burnham-Kidwell will demonstrate German methods of metal joinery, gold leaf application, script engraving and mokume. He will also have slides of German and Swiss ironwork.

**JOE ELLIOTT**

Joe is one of NWBA's Oregon professional blacksmiths. He will be demonstrating some of his humorous work like his bow-tie and possibly his Gumby as well as basics like slitting techniques. He has recently developed a production line of ironwork and will talk a bit about it as well as the business aspects of blacksmithing.

### DEMONSTRATIONS

Friday the 27th	1:30 pm to 4:30 pm	Joe Elliott
Saturday the 28th	9:00 am to 12:30 pm	Jay Burnham-Kidwell
	1:30 pm to 4:30 pm	Joe Elliott
Sunday the 29th	9:00 am to 12:30 pm	Jay Burnham-Kidwell

### SPRING FEAST

NWBA will sponsor the Saturday evening Pot-Luck dinner furnishing spit roasted beef. Bring along your favorite dish or two. If your name starts with A - H, salads or a hot dish, I - Z, a dessert or a hot dish. Leftovers will be served for Sunday's lunch. NWBA will provide coffee and donuts for breakfasts. Friday's dinner and Saturday's lunch are up to the you.

### VIDEOS

Smokey Adams has promised three films, all excellent viewing from the ABANA library. If you missed the Fall Conference you should be able to see a bit of it on tape.

### LODGING

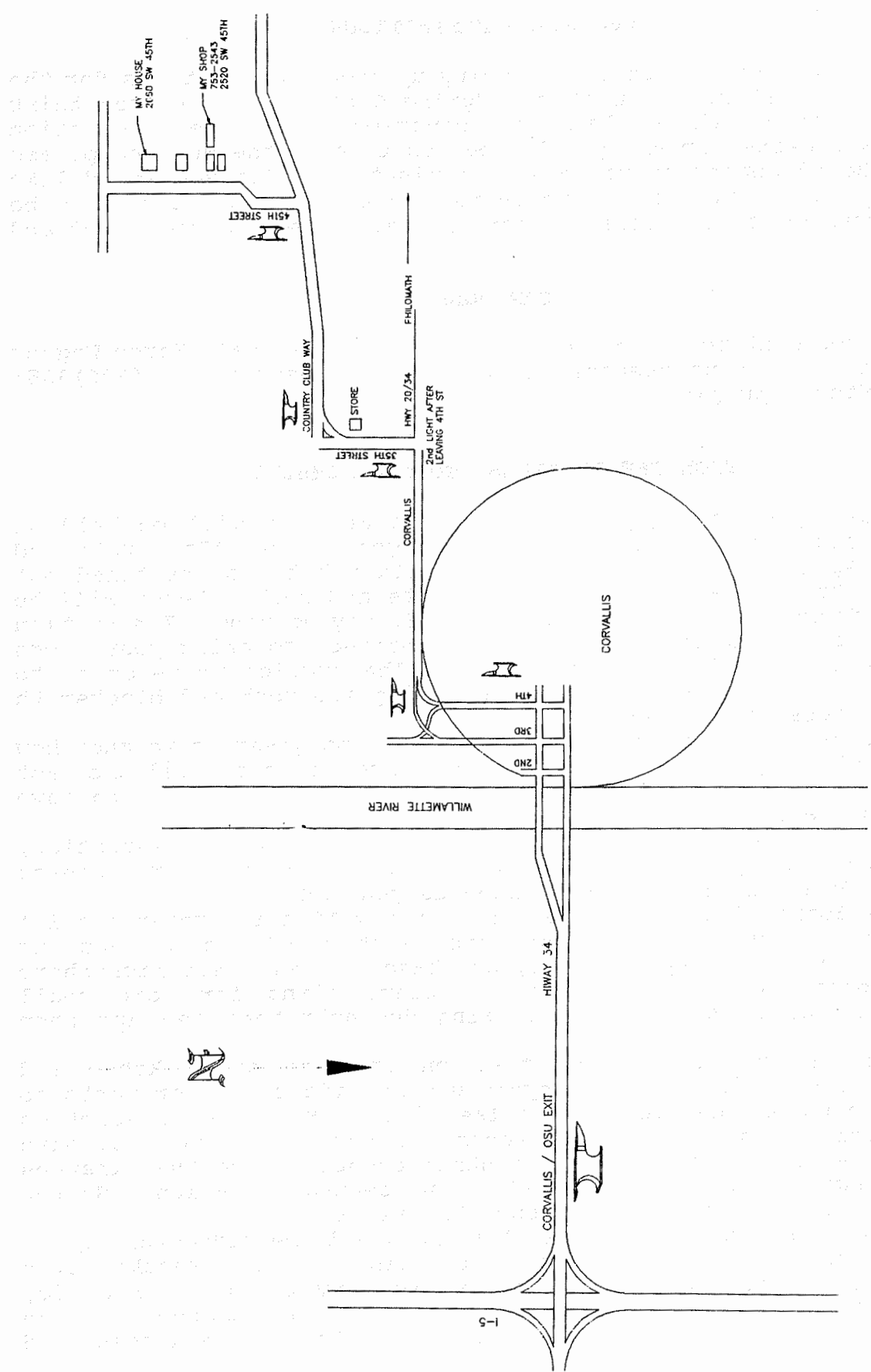
Kent Rudisill has plenty of room for camping. However, if you are in the mood for something a bit nicer there are motels in Corvallis along the route to Kent's.

### AUCTION

Our eighth great auction is coming up. Bring along something interesting, some new or old ironwork, tools, books or ??? for the auction and that hoard we all know you've got hidden in your mattress and enjoy the show. The auction proceeds go towards conferences, the magazine and workshops.

photo of Jerry Culberson  
by Lloyd Hedglin





## NWBA BOARD NOMINATIONS

The 1990 NWBA Election is coming up soon. Nominations for the 1990 Board will be taken at the Spring Conference. If you think you know someone who could make a contribution to the Association as a Board Member speak up! If you won't be at the meeting please call a Board member to voice your nomination. (If you would like to be part of the Board, nominate yourself.) Ballots will be mailed out again this year sometime in May. Exercise your right and vote.

## CARPOOLS

If you want to share ride to the Conference, call Karen Wagner for names and phone numbers of NWBA members near you. (206)385-0256, after 7 pm please.

## FROM THE PRESIDENT TO THE MEMBERS

Once again its Spring Conference time. It will be held at Kent Rudisill's shop in Corvallis, Oregon on the 27th, 28th and 29th of April. Its still a two day affair but its stretched out a little for those who work swing shifts and such. Demos will be Friday afternoon, all day Saturday and Sunday morning. The Auction will be held Saturday night after the banquet so bring your items for auction as well as your wallets. The auction proceeds go to support our organization, so please bring ironwork and blacksmith related items if you can.

The early registration discount is being given so we know how many people to plan for early and don't have to wait until the last minute to make arrangements. So get your money in early and save some bucks also.

We will need volunteers to help with set-up, registration, food and clean-up on Sunday. If you can help with any part, please call me or any board member as soon as you can.

The Board of Directors met on February 10th and covered a lot of ground. Some of the things were, a check of the by-laws and proposed changes to update them, purchase of a wireless microphone for demonstrators so everyone can hear, plans for some small bleachers for seating, standardizing demonstrators fee and shop fees.

Ike Bay volunteered to take on the job of Workshop and Conference Coordinator. So anyone who has ideas for, or wants to host a workshop, has to contact Ike first. For NWBA to sanction and properly publicize these events, we have to be able to make sure there are no conflicts with other events. Also the finances and paperwork need to be handled at one central location. So for it to happen, it has to go through Ike first.

As he has done in the past, Mike Falk will be video-taping our demonstrators at the Conference. The Camcorder got knocked over at our last Conference and we don't need any repair bills. So, there will be a small area at each demonstration reserved for the video and speaker setups. Please stay away from the equipment and

give Mike the room he needs to get good shots. We don't need any tapes of butts and backs of peoples heads.

We also have a problem with some folks who want to chatter with their friends during the demos. This is not only disturbing to the other spectators but it is an insult to the person who is demonstrating. So, if you want to visit with "Old Fred" or whoever, get up and go outside, do your visiting, then come back when you want to see the demo. Have a little consideration for the others, please.

And, while I'm ragging on - I have gotten a number of complaints about cigarettes during the demos. Yes, I know, Blacksmiths make smoke, but due to our close seating during the demos, those who don't smoke don't want to have to breathe your smoke. So please, refrain from lighting up during the demos. If you have to fire one up, ask your neighbor to save your seat and go outside and have your smoke, then come back to the demo.

All right, enough lectures.

It looks like the Spring Conference is going to be a lot of fun. I'm also getting three videos from ABANA, The Yellin Gate Workshop, The Waterpowered Blacksmith Shop and The Japanese Swordsmiths. There will be plenty of good stuff to see so pack your gear and make your plans.

See you there,

Smokey Adams

#### **NWBA ENTERS THE COMPUTER AGE**

Last spring Kent Rudisill made a wonderful gift to the Association. A COMPUTER! Recently, NWBA purchased the final component of the system - a printer. This issue of the Hot Iron News marks the advent of many changes. You will notice a difference in the magazine though time restraints precluded a total renovation. In the future our printer will not be faced with the task of making photocopied copy look professional and the membership will have a magazine readable in any light.

Another big change the computer has made is in the realm of bookkeeping. NWBA will now be able to keep better track of who is a current member and when they last paid their dues. When memberships expire, former members will receive a notice to that effect. Not sure what your status is? Check your mailing label or call the Editor.

In the near future, a roster of the current membership will be published. It will be mailed to the membership sometime in April. Updates will be included in future issues of the Hot Iron News.

I would like to personally thank Kent Rudisill for the original gift of the computer and the Board and membership for the acquisition of the printer. It has been challenging, difficult and exciting to learn to use the equipment. The real thrill though is the ease with which I can now produce the magazine and keep track of details. I never thought I could find modern technology so inviting.

Karen Wagner

**MINUTES, BOARD OF DIRECTORS MEETING, N.W.B.A.**

February 10, 1990

Attending: Smokey Adams, Karen Wagner, Tom Graham, Ike Bay, Mike Falk, Lloyd Hedglin and guest John McLellan from California.

Moved by Ike Bay, seconded by Smokey Adams, to approve the minutes of the fall meeting as read. Passed.

Treasurer's report by Tom Graham. Current balance \$9049.72. Tom summed up the financial status of the fall conference. The auctions are the primary fund raisers and necessary for the organization to stay in the black and yet keep costs to a minimum.

The treasurer is consulting with a C.P.A. to insure proper filing with the I.R.S. The organization is now collecting enough money to make filing a requirement. This was moved by Mike and seconded by Smokey. Passed.

Information from our insurance carrier again states that waivers must be signed by all participants and demonstrators.

Ike is looking for a legal adviser for the organization. The directors agreed to have insurance coverage for the P.A. system and video camera.

The President led a discussion on:

Crowd control and audience behavior

Written agreements between the association and demonstrators and site owners. Ike is drafting a memo of understanding form to be used.

The recognition of professional smiths and their requirements apart from the non-professional member.

Providing event hosts with advance money for food, toilet facilities, etc. for NWBA sanctioned events.

Ike Bay was appointed Events Coordinator, by the President, to help avoid confusion, conflict and to assist the event hosts.

Moved by Mike and seconded by Ike that the editor of the Hot Iron News be paid \$250 per issue for four issues per year. Passed.

There was a discussion of bleachers, buildings and getting more farriers as members.

After discussion, it was moved by Mike and seconded by Smokey to have a moratorium on donations to other organization until the board can determine the wishes of the members.

Respectfully submitted  
Mike Falk, Secretary



Dear Karen,

Many Thanks for the copies of Hot Iron, I am so glad you sent them. My parcel with all my books with addresses, etc. has not turned up as yet.

I wrote to Jack Slack with our Thanks for such a grand time so I hope he passed on the message.

Please Thank all the Northwest Blacksmiths and wives for making our stay so enjoyable. It was so good to see how the Association had developed in 10 years, and what a wonderful cross section of people.

In one of your later publications will you please print our invitation to any of the members to visit us if they are in the U.K.

I have constructed a Gas Forge similar to Darryl Nelson's wonderful forge for working on bar ends, but how do you work on scrolled panels? We are lucky still in England. We can obtain small breezes and use a traditional side draft hearth.

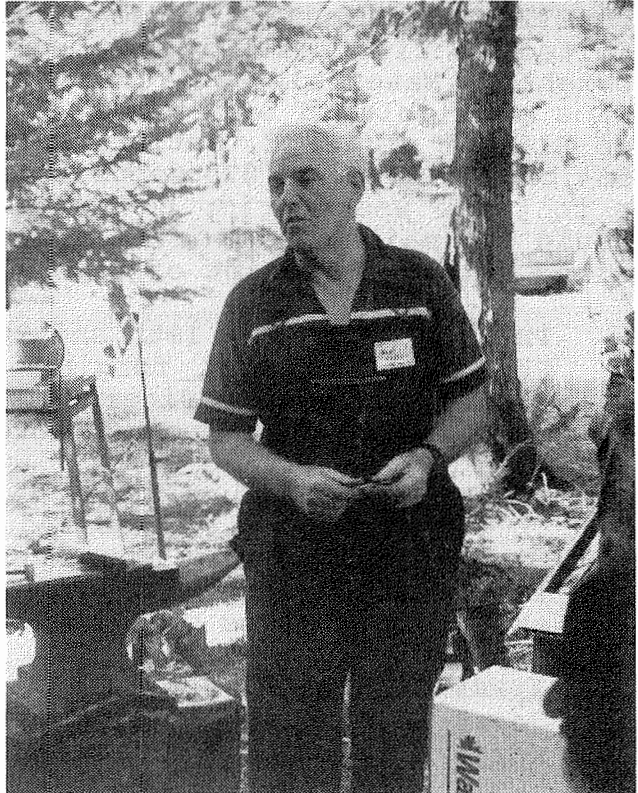
Keep up the good work Karen. Wish I could have spent more time with you all. So much to learn and enjoy.

Life is for Living

Our kindest regards to all.

Ken & Nina White

photo by Al Karg



27 Feb. 90

Dear Karen,

I recently got back from the Novice Workshop held at Jerry Culberson's Old Cedar forge in Allyn, WA. I learned a lot, had a great time, ate great and met good people. About the only price I paid was that gravity felt very strong when I had to get up and go to work yesterday. I want to thank the NWBA leaders for making this weekend possible, especially Jerry Culberson and his wife for their hospitality. Even at my mostly desk job, my mind is still busy trying to figure out how to move metal. What can a novice, who doesn't have a lot of free time, do to help out in the future?

Sincerely,

Peter van der Ven

## WORKSHOPS, CLASSES AND CONFERENCES

### NWBA SPONSORED

Joe Elliott is hosting three workshops in 1990. Each workshop is limited to five participants and fees are \$150 for each two day workshop. Materials and lunches will be provided. There is still space available in each workshop. For more information, contact Joe Elliott at 128 E. Antler, Redmond OR 97756 or call (503) 548-2564 or 548-8895. A \$75 deposit is required and will be refundable up to three weeks prior to the start of each workshop. Deposits should be mailed to Joe Elliott. Information packets will be mailed out upon receipt of deposits.

**PHIL BALDWIN** May 19th and 20th

Phil will present forging non-ferrous metals focusing on bronze, surface refinement and finishing. The project will be a bronze door knocker forged from plate and round stock.

**DARRYL NELSON** June 9th and 10th

This workshop will be geared to the intermediate and advanced blacksmiths. Bring you problems and question for Darryl to troubleshoot and help you with. Projects will be students' choice but blades will not be dealt with.

**JERRY CULBERSON** July 21st and 22nd

Jerry is planning a garden gate using traditional joinery and forging techniques and possibly and animal head draw bolt.

### ARROWMONT SCHOOL OF ARTS AND CRAFTS - Summer Workshops

Box 567

Gatlinburg, Tennessee 37738 (615) 436-5860

Write for a complete list of classes.

**DOUGLAS E. WILSON** June 11-15

Ironwork for Interiors

**DARYL MEIER** June 18 -11

Pattern Welded Steel (Damascus)

### NATIONAL ORNAMENTAL METALS MUSEUM

374 West California Avenue

Memphis, Tennessee 38106 (901) 774-6380

**BLADE-FORGING WORKSHOP** March 31 and April 1

Instructor is Robert Coogan. Tuition is \$125.

### CASCADE MOUNTAIN MEN

Contact Ken Eriksen at (206) 524-6911 or Dave Dolliver at (206) 746-0912 for complete information.

**MUZZLE LOADING RIFLE GUNSTOCK DESIGN AND LAYOUT SEMINARS**  
with Gary Brumfield, Master Gunsmith at Colonial Williamsburg.  
Topics include lay-out, shaping, engraving, carving and there  
will be hands-on experience. Three seminars will be held in  
Renton, WA and run from June 23rd through July 1st.

**ROCKY MOUNTAIN SMITHS**  
Ray Rossi, President  
1652 S. Vaughn Street  
Aurora, Colorado 80012

**MOUNTAIN SMITHS BLACKSMITHING CONFERENCE** August 23 - 26  
To be held at the Francis Whitaker Blacksmith School in  
Carbondale, Colorado. Featuring forging clinics, a window  
grill project lead by Whitaker and demonstrations by leading  
smiths.

**PENNLAND SCHOOL**  
Pennland, North Carolina 28765  
Write for a catalogue

**PHILLIP BALDWIN** May 28 - June 8  
Forging and toolmaking

**STEVE JORDAN** June 11 - 22  
Forged elements

**MICHAEL CROFT** June 11 - 22  
Knifemaking

**GLEN GARDNER** June 25 - July 6  
Hollowform construction

**JEFFREY FUNK** July 9 - 20  
Sculpture and blacksmithing

**DOUGLAS E. WILSON** July 23 - August 8  
Sculptural iron

**JOHN C. CAMPBELL FOLK SCHOOL**  
Brasstown, North Carolina 28902  
Write for a catalogue

**JIM BATSON, CLAY SPENCER, IRA DEKOVEN, JOHN ROBY, JERRY  
DARNELL, DAN EASLEY, CLAY SMITH, JOE MILLER, CHARLES ORLANDO,  
CHARLIE FULLER, ELMER ROUSH, BOB BECKER, NOL PUTNAM, AND  
MICHAEL J. SAARI** will all be teaching year.

"It is one of the most beautiful compensations in life that one  
cannot help another without helping himself."

- Ralph Waldo Emerson

## **NOVICE WORKSHOP, OLD CEDAR FORGE**

Mike Falk, Black Fens Forge

The novice workshop was again a resounding success . The success can be measured by watching a dozen people, rather hesitant and unsure on a Friday morning, become confident iron smashers by Sunday afternoon. As a matter of fact, you can measure the increase in confidence by simple listening to the sound and cadence of the hammer blows.

The instructors, Jerry Culberson and Darryl Nelson, assisted by Gene Chapman and Smokey Adams know how to inspire and direct the student smiths, yet are still able to snatch defeat and destruction from the forge and anvil. A major lesson is always to be observed just watching them turn a neat total disaster into a workable tool or artifact.

No article on the workshop would be complete without mention of Jerry's cuisine. Anytime he wants to quit smithing and become a gourmet chef, success is his.

The following people received their novice smith certificates: Jeff Keyes, Jerry Henderson, John McKenzie, Dennis Prince, Connie Brown, Peter van der Ven, Louis Raffloer, Darrin Henderson, Michael Chilton, Jack Peeling, Steve Elliott, Mike Falk and Michael Kingsley.

## **VANCOUVER ISLAND BLACKSMITH'S ASSOCIATION**

DERRY COOK

Twenty of our members enjoyed, learned, and some even practised, from Gene Chapman's two-day workshop at the Artifacts Society on November 25th and 26th, 1989. Gene built a propane forge, welded a billet of Damascus steel, made several knife blades, a medallion for VIBA, did engraving, hardening, tempering, draw filing, etching, polishing. He showed us many samples of his work, including working antler, making and fitting knife handles with blind rivets and many, many other nifty tricks he has gleaned from long, hard experience.

We were priveleged indeed to witness so much in such a short space of time. Gene's "mountain man" knives are quite unique and beautifully made. We look forward to having Gene back sometime - in fact, to that end Gene suggested we consider a joint meeting between the Vancouver Island Blacksmith's Association and the Northwest Blacksmith's Association.



Wayne Goddard demonstrating at the 1989 NWBA Fall Bladesmithing Workshop. Photos by Gene Chapman.

JAY BURNHAM-KIDWELL

**EXAMINATION PIECE**

A Memorial to My Brother and Sister Viet Nam Veterans

1988

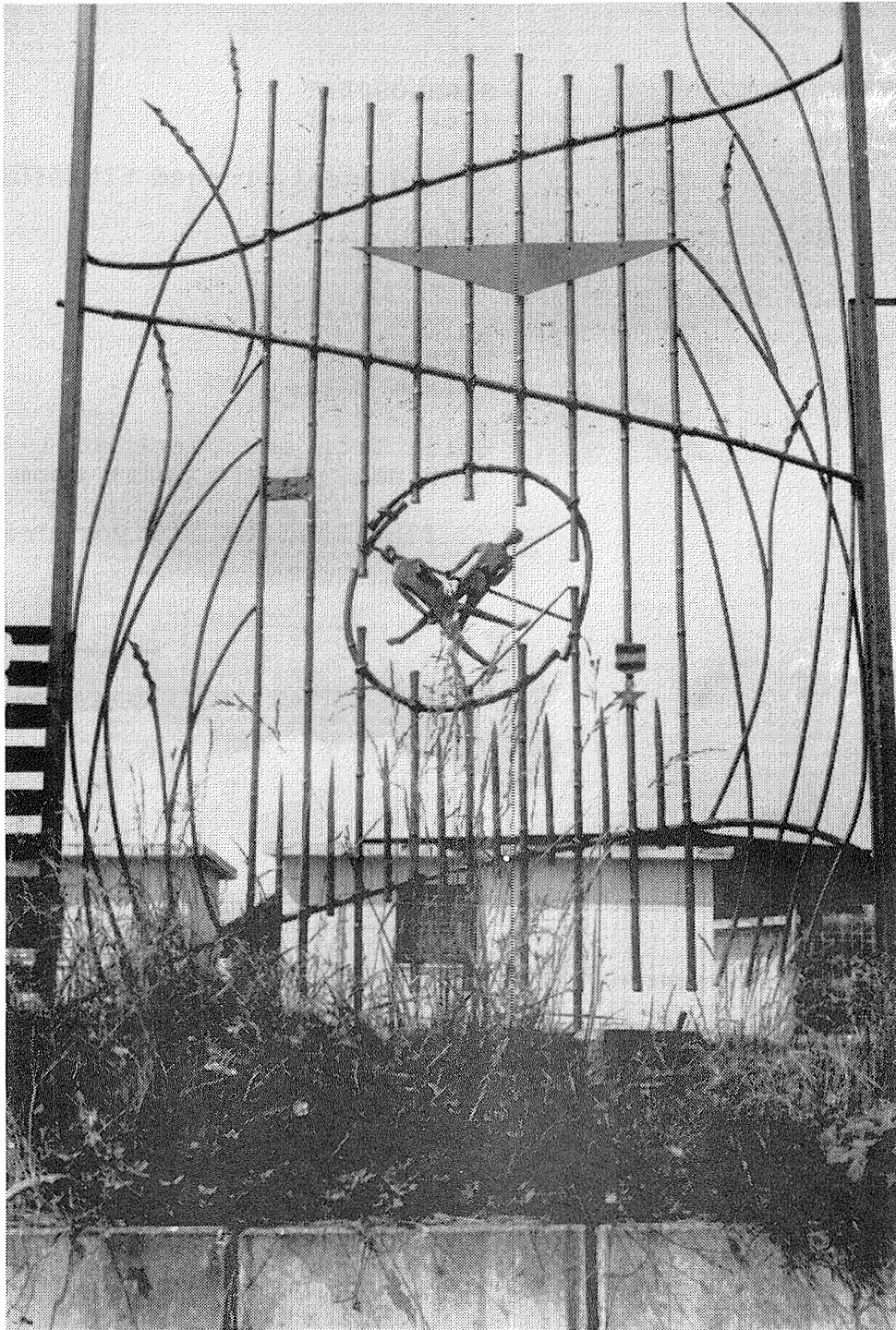
Vulcan Schmiede, Aachen, West Germany  
International Teaching Center for Metal Design

Forged steel and forged bronze, carved, chased and repouseed

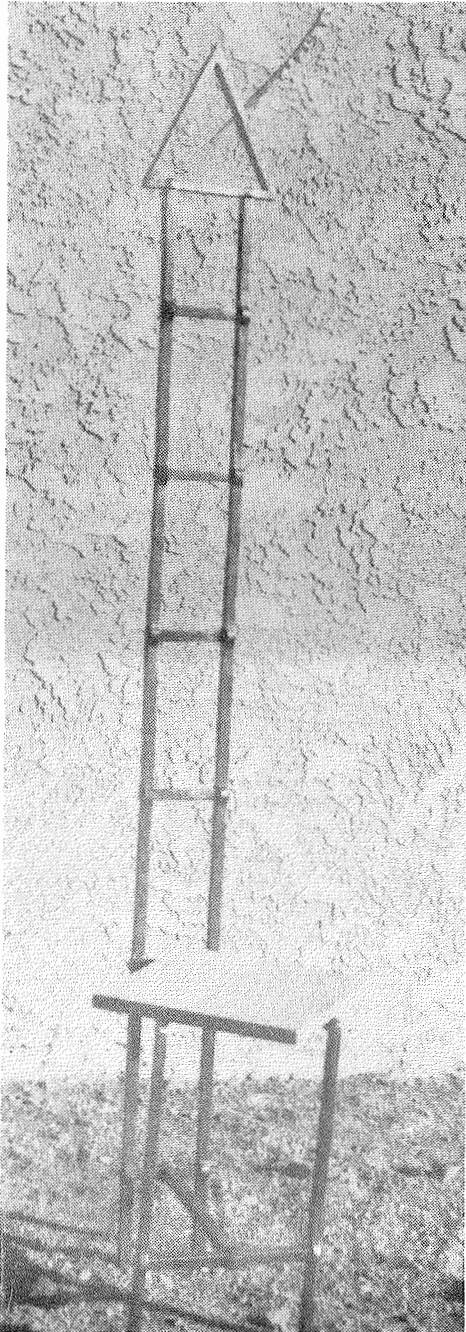
8' x 11'



NAME PLAQUE, EXAMINATION PIECE



JAY BURNHAM-KIDWELL



**STUHLOBJEKT**  
(Hall Tree)

Forged steel, forged titanium, oak

1990

**BLUMENTISCH**  
(Plane Table)

Split from one piece of 1 3/4" X  
1" steel, purple heart wood

"A flat head to sit yer drink  
on..."

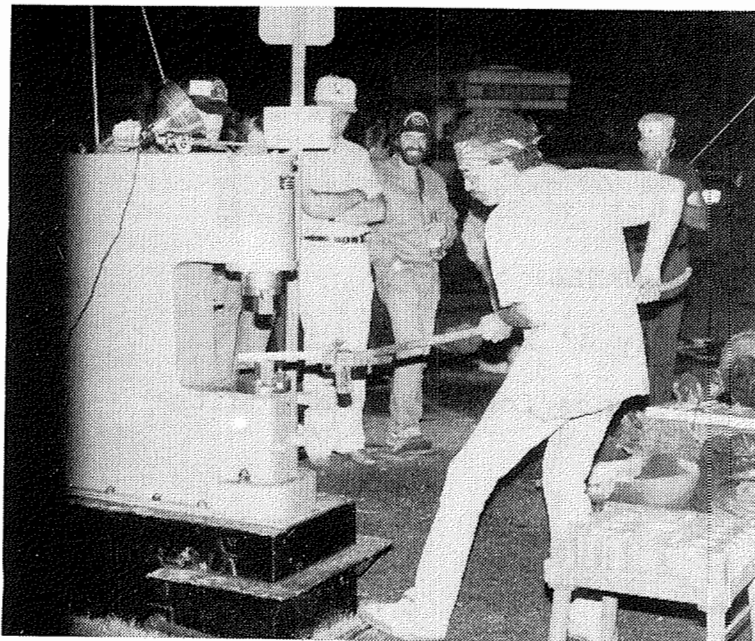






**RAILING FOR TOP LOFT WITH RHINO**

Forged steel, forged wrought iron  
1988

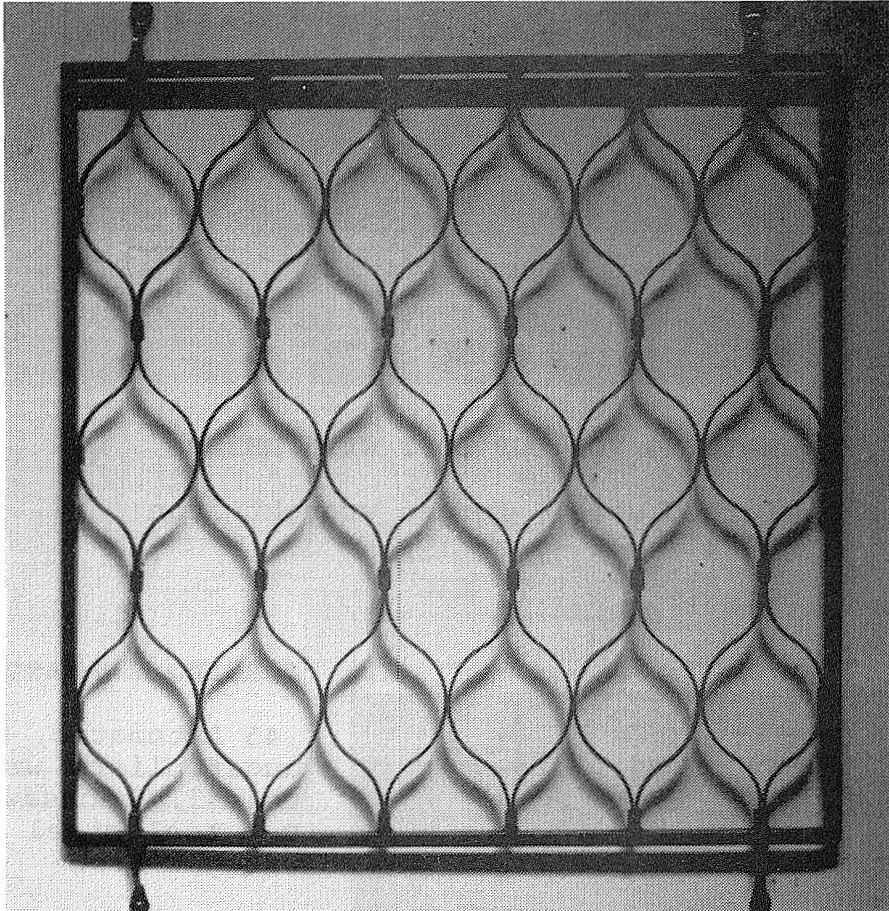


**FORGING A DAMASCUS BLADE**

.45 Automatic, Bayonet,  
auger, pliers wrench,  
chisel, hacksaw blade,  
O-1 tool steel and  
wrought iron

1986 ABANA Conference,  
Flagstaff, Arizona

JOE ELLIOTT



**WINDOW GRILL**

Approximately 4' X 5'

Opportunity Center, a residence for retarded adults



**DOORS**

Welcome Center Building for Central Oregon

Bend, Oregon



**RAILINGS**

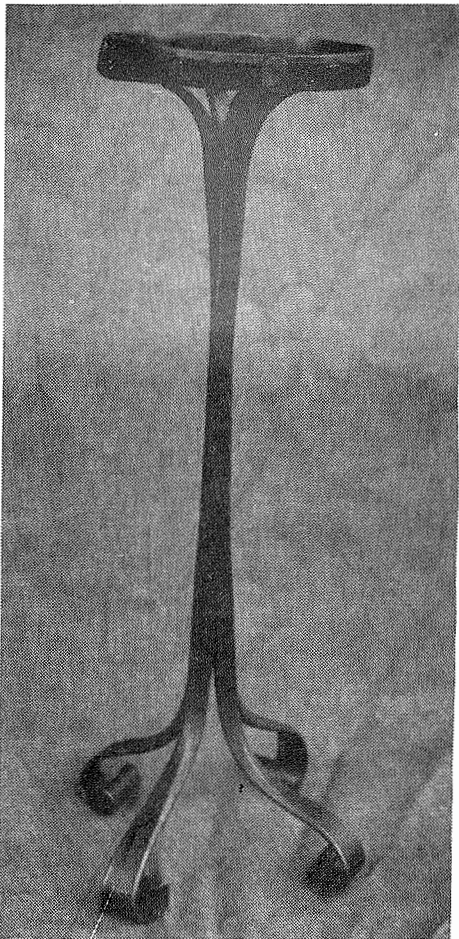
**LIGHTING FIXTURES**

**HINGES, ETC.**

Nash Home - A fishing cabin

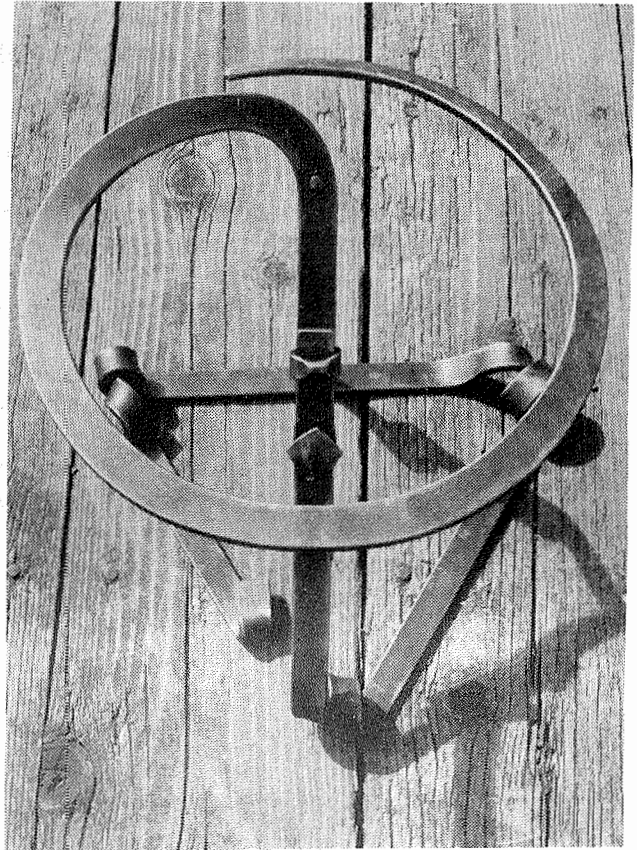
Carved Newel Posts by  
Chester Armstrong

JOE ELLIOTT



**PLANT STAND**

Steel



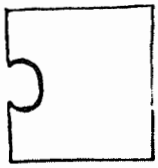
**TABLE**

Steel

24" diameter, 18" high

## SQUARE ESCUTCHEON

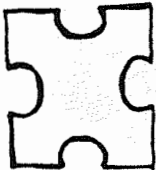
from the sketchbook of Tom Latane



Chisel cut 2/3 of an oval in the center of each side.

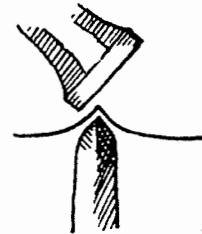
Divide each corner into 3 lobes by chiseling a notch midway between each corner and edge of oval cut.

Stamp each notch further into square.

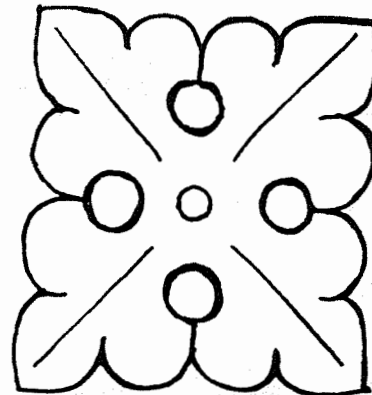
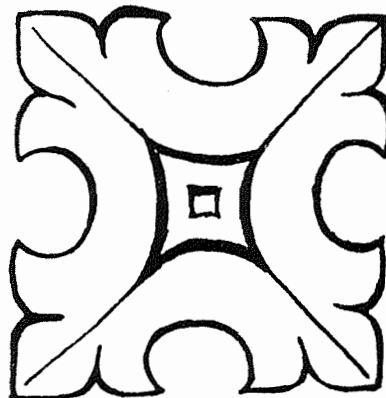
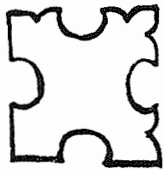


Reverse and depress diagonal lines to raise center of each corner leaf.

Sharpen raised center ridges by planishing over a stake.



Depress center of escutcheon and drill hole.

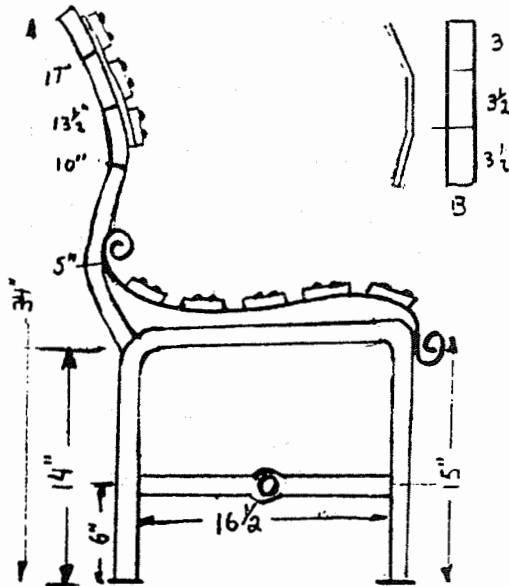
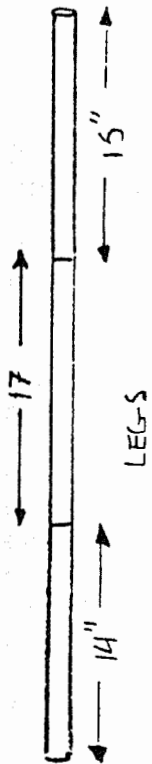
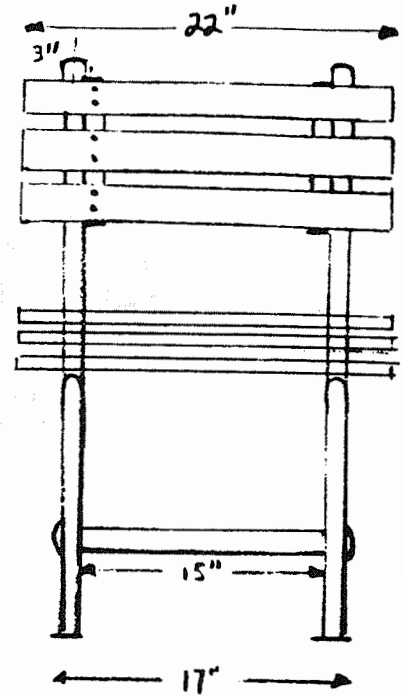
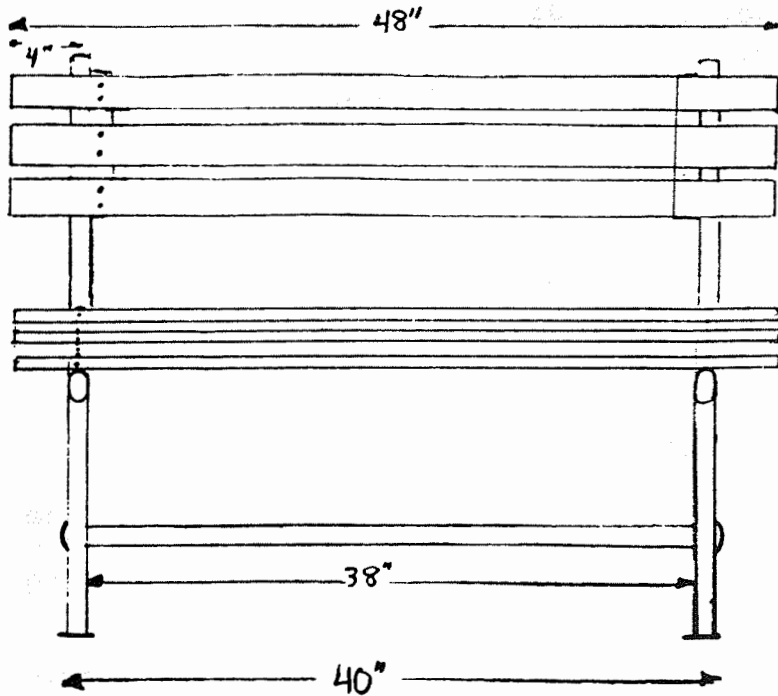


Variation - Rather than 4 ovals, punch or drill 4 holes between edge of each side and center of the square.

from: Metalsmith. Guild of Metalsmiths. Sept. - Nov. 1989.

PARK BENCH - CHAIR

Jud Hirschfeld



MATERIAL:

1" Round Bar:

- 2 @ 46"
- 2 @ 21"
- 2 @ 16 1/2"
- 1 @ 38"
- 1 @ 15"

1/4" X 1 1/4" Flat:

- 2 @ 24"
- 2 @ 10"

4 - 5/8" Flat Washers

32 - 1/4" X 1 1/2"

Carriage Bolts

32 - 1/4" Nuts

32 - 1/4" Flat Washers

Lumber:

- 8 @ 3/4" X 2 1/2"
- X 48" OR 22"

Cedar or Paint Grade  
Wolmanized

Finish:

Frame: black gloss

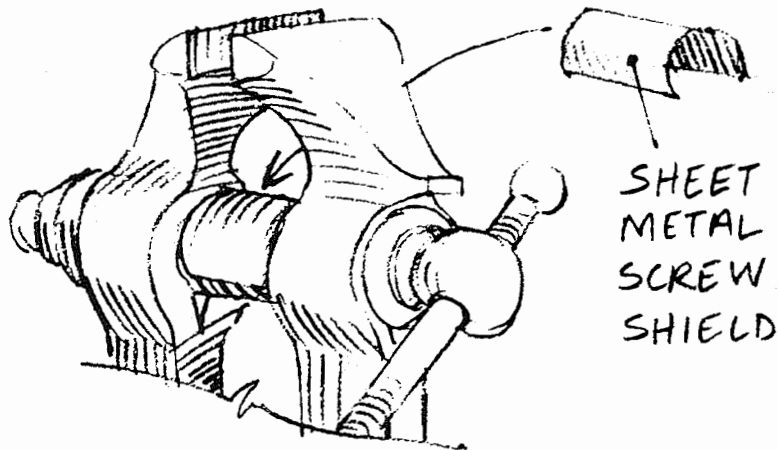
Cedar: satin poly

Paint grade: choice

from: Newsletter of the Blacksmiths Association of Missouri,  
Dec. - Jan. 1990.

## WISE SCREW SHIELD

Grady Holley Jr.



I used a piece of sheet metal bent 1/2 round to cover my post vise screw - it keeps filings and such from sticking to my well greased and constantly used vise screws. Pressure holds shield in moving jaw.

from NewsLetter of the Blacksmiths Association of Missouri, Dec.-Jan. 1990.

## THE THUMB WOOD CARVING KNIFE

Mike Falk, Black Fens Forge

During the "Midnight Madness"(which ends at 10 p.m. at Old Cedar Forge in deference to the neighbors), I developed an idea for a small carving knife.

While perusing a book on African craftsmen, I saw a photograph of some carving tools. Included was an unusual crescent shaped knife, reminiscent of a leather workers head knife only on a much smaller scale.

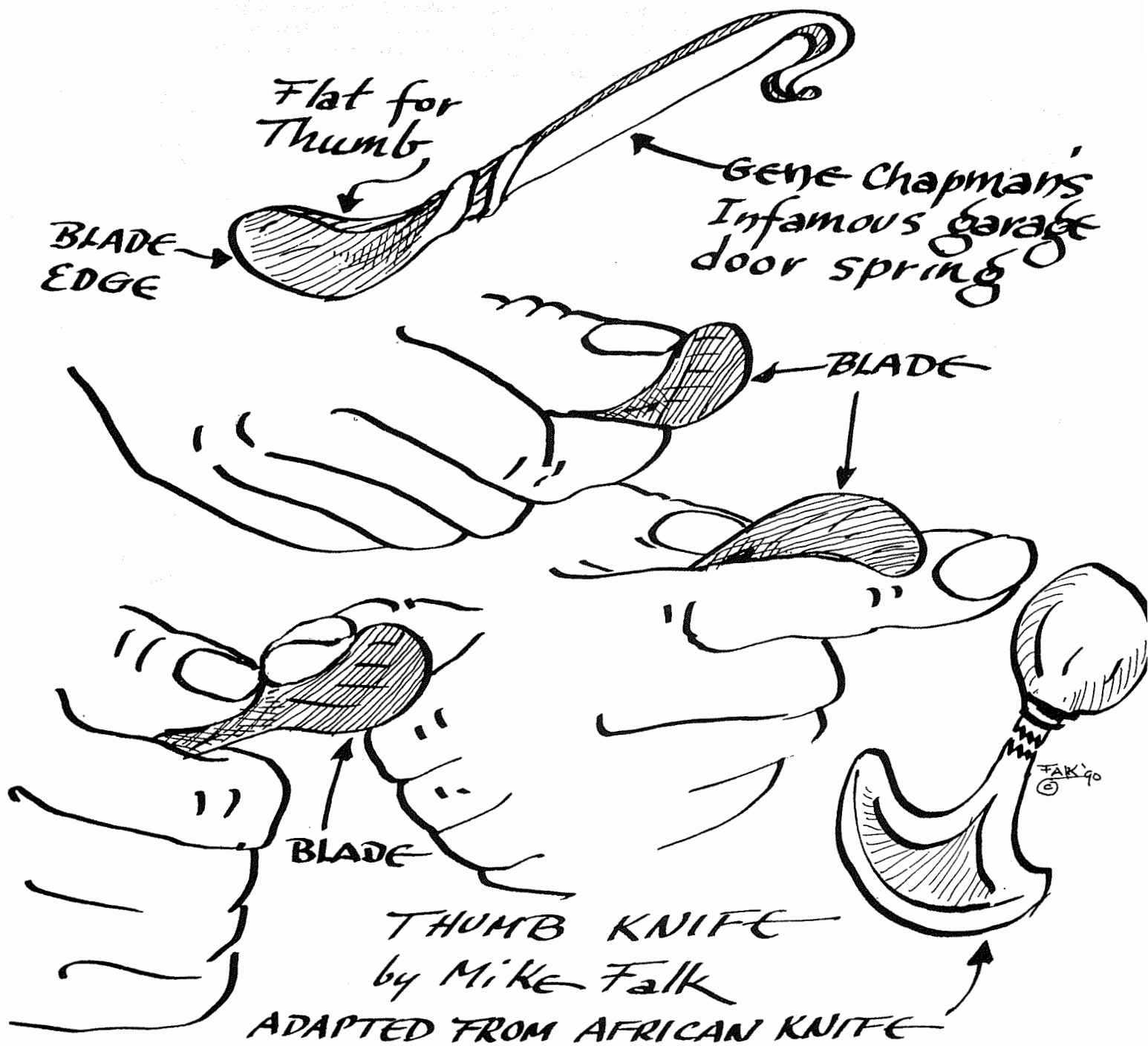
Utilizing some of Gene Chapman's ever useful garage door spring material, I forged a small, self-handled knife that would fit in the palm of the my hand.

The unique feature(see accompanying sketch) is a flat spot on the top of the small, curved blade. The thumb rests there so the knife can be pushed along the carving surface. Alternately, the blade can be curved over the side of other index finger for a pulling cutting motion. Both thumbs can also be used for force in a heavier pushing cut. It is possible to retain a lot of control over the cut with this configuration.

Get some garage door spring, or similar material, and develop your own carving tools.

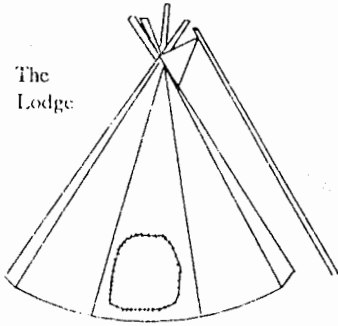
Making wooden handles is a problem that stops many people from making their own knives and tools. In many cases, a self-handled tool will work just as well as a wood handled tool. It is a lot easier to make, Go for it.





### Lamp Hanger for a Lodge pole

The Lodge

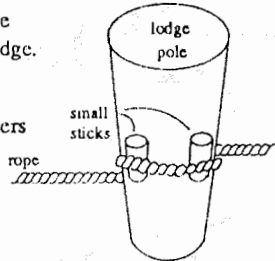


Ralph Peters of Bradenton Florida is a mountain man at heart. He is a member of a national organization of men dedicated to learning about and preserving the lore and lifestyles of Mountain Man. These men enjoy vacationing and weckending in lodges like the ones the mountain men adopted from the indians. Ralph is active with Scouts and youth groups and a visit to his lodge is like steping into the past complete with authentic dress, black powder rifles, buffalo hide floors, stone hearth and long long tales.

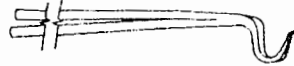
Ralph visited the Crowley Museum Blacksmith meeting at my invitation recently bringing with him a number of interesting handmade tools from his lodge. This lantern hanger is one of several items we helped Ralph duplicate.

To conserve floor space small items are usually hung from the lodge pole but there is one small problem. When it rains a small amount of water runs down the inside edge of the lodge pole to the ground at the edge of the lodge. Anything which touches this area of the pole can cause water to drip into the lodge.

Where ropes were used around the inside of the lodge small wooden spacers between the rope and the pole provided the clearance needed to allow free passage for the water.



This lantern hanger provides a little more clearance for a hot lantern for the fabric of the lodge. Start with a piece of 1/4 inch rod 32 to 36 inches long. Fold it in half and forge weld the first inch at the bend. Draw out this welded end and forge your favorite hook, keeping the rods one above the other.

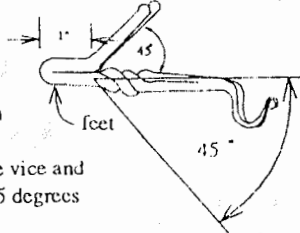


About 4 inches back, heat and tightly twist the rods 1 & 1/2 turns.

Next, double both rods back about an inch before turning the ends up about 45° to form the feet of the hanger.

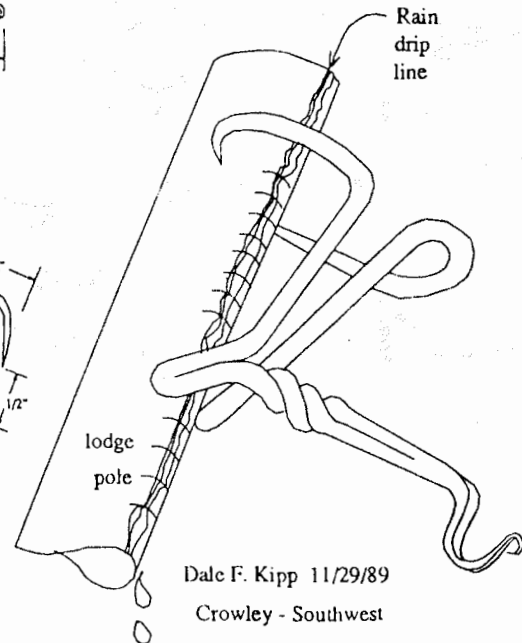
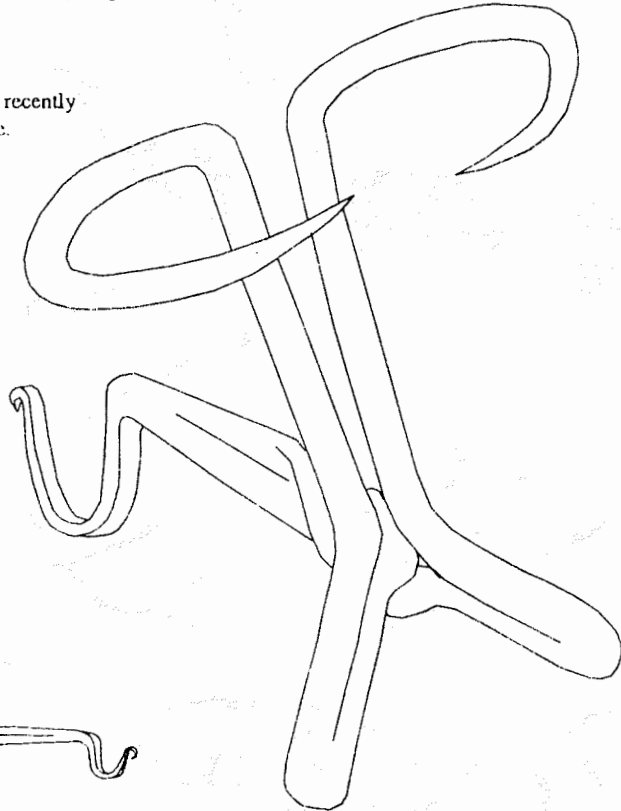


Clamp the feet in a vice and bend the hook arm (twists and all) down about 30 to 45 degrees. Remove the feet from the vice and separate them to about 45 degrees



At this point the two free ends of the rod should contain enough material to be about 10 inches long when tapered to a sharp point. About 5 inches up bend the free ends away from each other forming a "T" at the top. Finally bend the free ends away from the hook in a nice 1 inch radius curve till the tips are about 1 & 1/2 inches apart.

Next time you're camping, take one of these little hangers along. It will let you hang you Coleman lantern from a small sapling up to 2 inches in diameter with out driving nails in the tree.



Dale F. Kipp 11/29/89  
Crowley - Southwest

## DAMASCUS WORKSHOP

Don Butler

Fence World in Sacramento once again hosted a workshop on Saturday, January 6, 1990. Jay Burnham-Kidwell was the demonstrator. Jay demonstrated in the morning and the participants made billets for themselves in the afternoon.

What follows are the notes I took during the workshop. Jay brought with him several samples of Damascus from other forges as well as a meteorite and a small chunk of home-made wrought iron. Among the Damascus pieces was a Tomahawk of L-6 and mild steel, a blade of wrought iron and tool steel, a Burnham-Kidwell bottle opener of Mercedes 1095 coil spring and mild steel, a blade made of hacksaw blades and a blade made from hacksaw blades and band wrapping. Concerning this last piece, he mentioned that it had to be pressed together in the vise since it would not stay together under the hammer.

Jay considers the making of Damascus a basic skill. The skill of forge welding at its easiest is the faggot weld and Damascus is repetitive faggot welding. What's needed are clean metal surfaces and a clean, mature, reducing fire. For flux he used 20 Mule Team Borax. Jay thinks that most fluxing is done at too low a temperature, so, he fluxes at a yellow heat and makes sure the flux flows well over the area to be welded. Also, he fluxes out of the fire rather than fluxing the piece while it is still in the fire.

For this demonstration 4140 and wrought iron were used. The pieces of 1/4" X 1" were cut 4" long and tack welded on the ends and a porter handle was welded on. See Figure 1. If you don't have a welder, fold the pieces together, See Figure 2. Leave one piece long so it can be your porter handle then wire them together. The wire will hold them sufficiently so you can take your first weld.

FIG 1

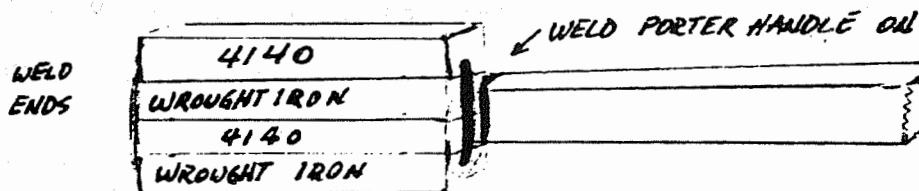
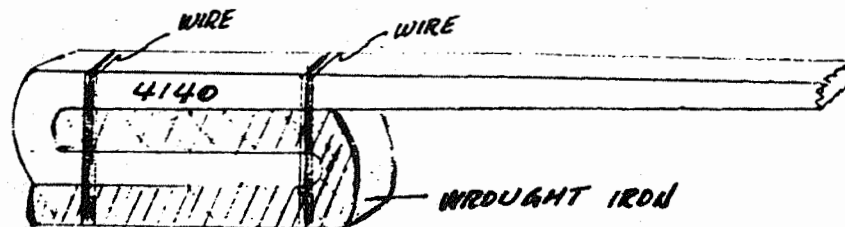


FIG 2 If you don't have a welder, wire pieces together

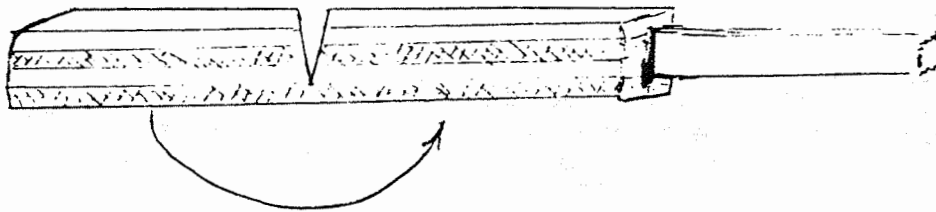


Jay prefers to stack his pieces together flat, rather than making the mating surfaces convex. As his welds testify there is no problem with this technique. With regard to the amount of material, keep in mind you will end up with about half of what you started with due to scaling and compression. A good example of this was at the end of the day, when someone using a 100# hammer had much smaller piece than those using a 50# hammer.

After the pieces had been stacked they were brought to a yellow heat and fluxed, then reheated to a welding heat and welded with quick light blows. Jay took a "wash heat", that is another welding heat to insure a complete weld. This "wash heat" is especially important on the first weld.

Next, the billet was drawn out to about twice it's original length and about 1/2 of it's original thickness, then slit about 2/3 of the way through and folded, after brushing, back on itself. See Figure 3. He explained that one layer is lost each time. That is not much if you think about it. For example, I did six welds using this method and ended up with 97 layers. If I had stacked my pieces so as not to lose a layer in six welds I would have had 128 layers. Also, this method is faster than alternatives. One alternative would be to split the billet along its length, then retack or wire it back together before proceeding.

FIG 3



The procedure of welding, drawing out, slitting and folding was repeated again and again. I forget how many layers Jay had finished by lunch. I think it was about 250. "A good amount of layers for a blade is 100-300". That gives flexibility and good pattern development.

Just before lunch, Jay developed patterns in hi piece and briefly went into etching. For etching he mentioned nitric acid, muriatic acid, which he used, vinegar for less toxic and slow process and ferric chloride. The last comes from Radio Shack; tell them you want the stuff to clean circuit boards. The pattern development Jay did was random followed by maiden hair, star burst and ladder pattern.

After lunch the participants went right to work. Jay would come around every now and then to comment, solve a problem, prod or encourage. The participant ended up with five blades and one home-made meteorite.

Meanwhile, in the outback of Fence World, something else was happening. The other Jay Burnham-Kidwell and his partner John McClellan transformed into that notorious duo, the C.B.A. Bad Boys. One never knows when or what they will strike: and what did they do? They made a sword. For ingredients they used: two shotgun barrels, one rifle barrel, a piece of 4140, a bolt, a

horseshoe, a piece of tube steel with a cast finial on the top from Fence World and some baling wire. That was all forge welded together in a gas forge and drawn into a Claymore Sword. The multi-faceted handle has the ends of all that stuff sticking out in all directions.

In conclusion, there is a lot of information available on Damascus. There are new books available and I recommend contacting Norm Larson, 5426 Hwy 246, Lompoc, CA 93436 for specific information. Norm will send you a list. I recommend "The Blacksmith's Source Book: An Annotated Bibliography" by James Evans Fleming, Southern Illinois University Press, Carbondale and Edwardsville 1980. The section on Pattern Welded Steel has about a dozen suggested books. Books on jewelry design and technique often have sections on Damascus and Mokume.

What a one-day workshop! Thank Jay, and thanks again Fence World.

from: California Blacksmith. California Blacksmiths Association, Jan. 1990.

Jay Burnham-Kidwell

**CHUCK BEAR MEMORIAL**

**FORGING STATION**

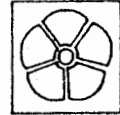
Forged steel, Damascus steel, wrought iron, gold leaf.

CBA "Bad Boy" Award  
1989 (Forged with  
John McClellan).

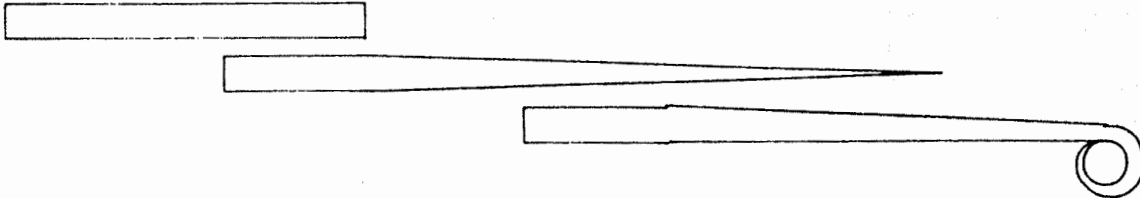


# Octopus Coat Hooks

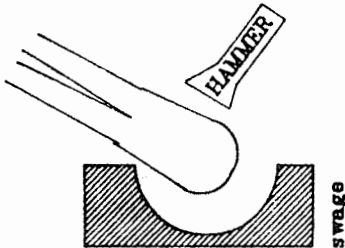
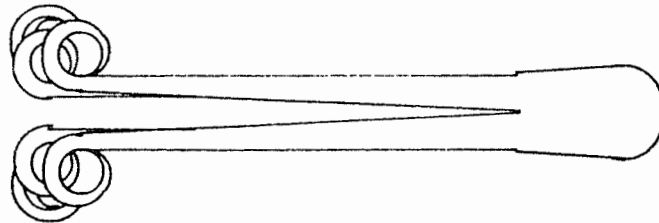
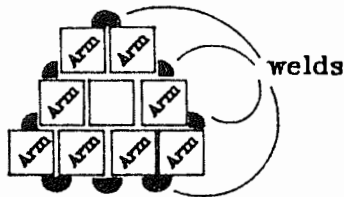
S. A. Bloom



- Using 1/2" square stock, prepare 8 pieces 5" long & 1 piece 2" long. Using the 5" stock, forge the terminal 3" into a gradual taper apprx. 8" long. Round the taper & curl the end.

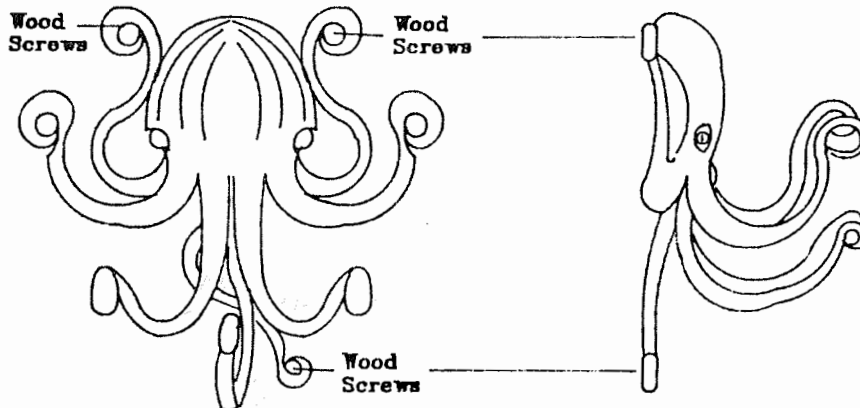


- Bundle the 8 arms around the 2" piece, arc-weld the arms together, then forge weld into a single mass. Forge the head into a cylinder with a domed end.



- Using a hemispheric swage block, dish the head slightly. Form an eye with a round eye punch & add a horizontal pupil slit.

- Shape the lateral rear arms & a center rear arm into attachment points. Shape the rest into protruding hooks (a torch will help).



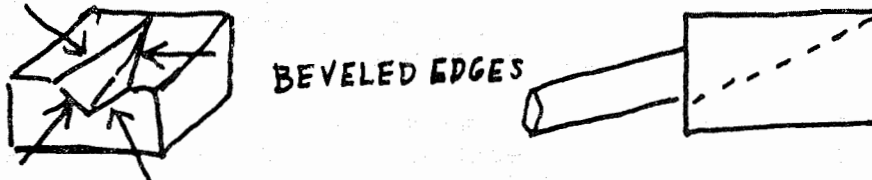
Use 3" for 1/4" stock => towel racks  
 Use 4" for 3/8" stock => hat racks  
 Use 6" for 3/4" stock => hernia  
 Possible Alternative  
 Uses:  
 key ring holders, business  
 card display/holder, ferric sushi

Copyright (C) 1989 - IronFlower Forge

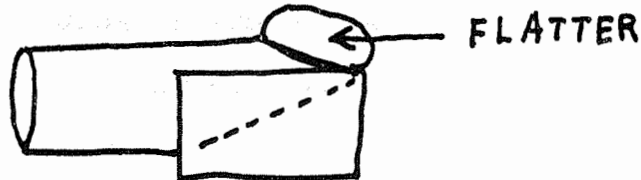
ABANA chapter newsletters may reprint this article, provided the author's copyright is reproduced with the article and The Florida Clinker Breaker is credited as the source.

## V BLOCKS

V type tools are good helpers for several different shapes. A tapered V block is very good for forging a taper on a pipe (or round). The work will be hit in 3 places, approximately 120 degrees apart. This 3 point hit helps to compact the job and keep it contained in a more uniform round taper. To make a V block for a taper you have to take into consideration any taper you might have on worn dies.

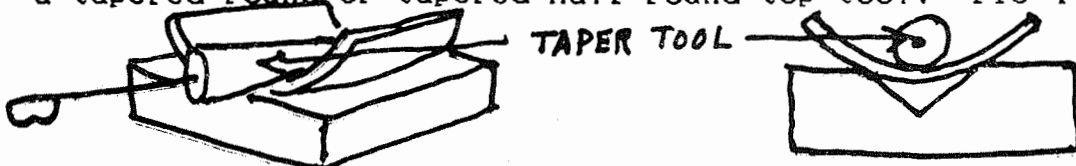


If the angle of the V block is not the same as the desired taper, it can be changed a great degree by using a flatter on top as in FIG 3



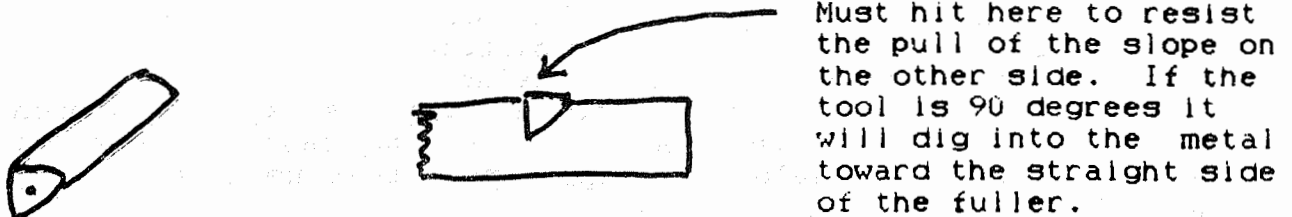
When both the V block and flatter have rounded edges, you can by correct manipulation or forge process make different angles with the same two tools.

You can also use this type of tool to bend a segment of a funnel using a tapered round or tapered half-round top tool. FIG 4



I know you could bend a tin funnel in your hands if the pattern was cut out right. It is a little more difficult to bend a segment of a hopper of 2" thick stock.

A V block is the quickest way I know, to make a side-fuller. for power hammer forging. The V block should be less than 90 degrees, about 85 degrees should be about right. A side-fuller of the type in FIG 5 will have tendency to dig into the work too much if it is forged 90 degrees.



## PETER WRIGHT ANVILS

Hugh Eddy

PETER  
WRIGHT  
PATENT

SOLID  
WROUGHT

Peter Wright and Sons of Dudley, England made anvils and post vises from about 1700 to the 1940's.

For many years anvils were made by piling or building up, that is, made by welding together a number of separate pieces on to a central block of iron. In 1850 Peter Wright, the great grandson of the founder, patented the process of making anvils in two pieces, welded at the waist.

After 1850 the trademark shown at left was stamped on the side of each anvil. After 1910 the word "England" was added to the trademark.

from: INBA Newsletter. Inland Northwest Blacksmiths Association, Dec. 1989.

## TINNING COPPER POTS

Ned Edelen

Make a copper pot or find an old one to re-tin. You cannot cook in a copper pot unless it is tinned. It will poison you. Use only 100% tin bar for tinning. 95% tin/5% lead plumbers solder will give you lead poisoning. Use the end of the bar that is unmarked first. This allows you to always know you are using 100% tin if you can see the marking. One test for 100% tin is if you bend a bar or wire of tin, you should hear a crackling sound. If lead is present, it will bend with no sound. Be certain! Lead poisoning can be deadly or debilitating.

Use a wad of ordinary fiberglass insulation as a swab to wipe the tinning around the pan. Get Koester's 100% tin bars. Use a propane stove as a heat source. Wash, clean and steel wool the inside of the pan before starting. If you want an even bead of solder around the top outer edge of the pan, use typist's White-Out correction fluid to form an edge.

- \* Start by heating the pan over the stove.
- \* Add tinning flux powder.
- \* Touch the tin bar to the pan after the flux has melted. Use only a little bit.
- \* Rotate the pan over the heat.
- \* Wipe the pan quickly with the fiberglass swab as you remove
- \* The inside of the pan should be evenly and completely covered with tin. Check for pinholes.
- \* Buff out any spills on the outside.

You would re-tin a used pan the same way. Always use wooden utensils on tinned pots and pans. Bill Callaway says to check out flea markets and yard sales for copper pots that need re-tinning because they are often a good deal.

(Editors note: This is an excerpt from Ned Edelen's Blacksmithing Notes column covering demonstrations by Bill Callaway.)

from: The Newsletter. Blacksmiths' Guild of the Potomac. Nov.-Dec. 1989.

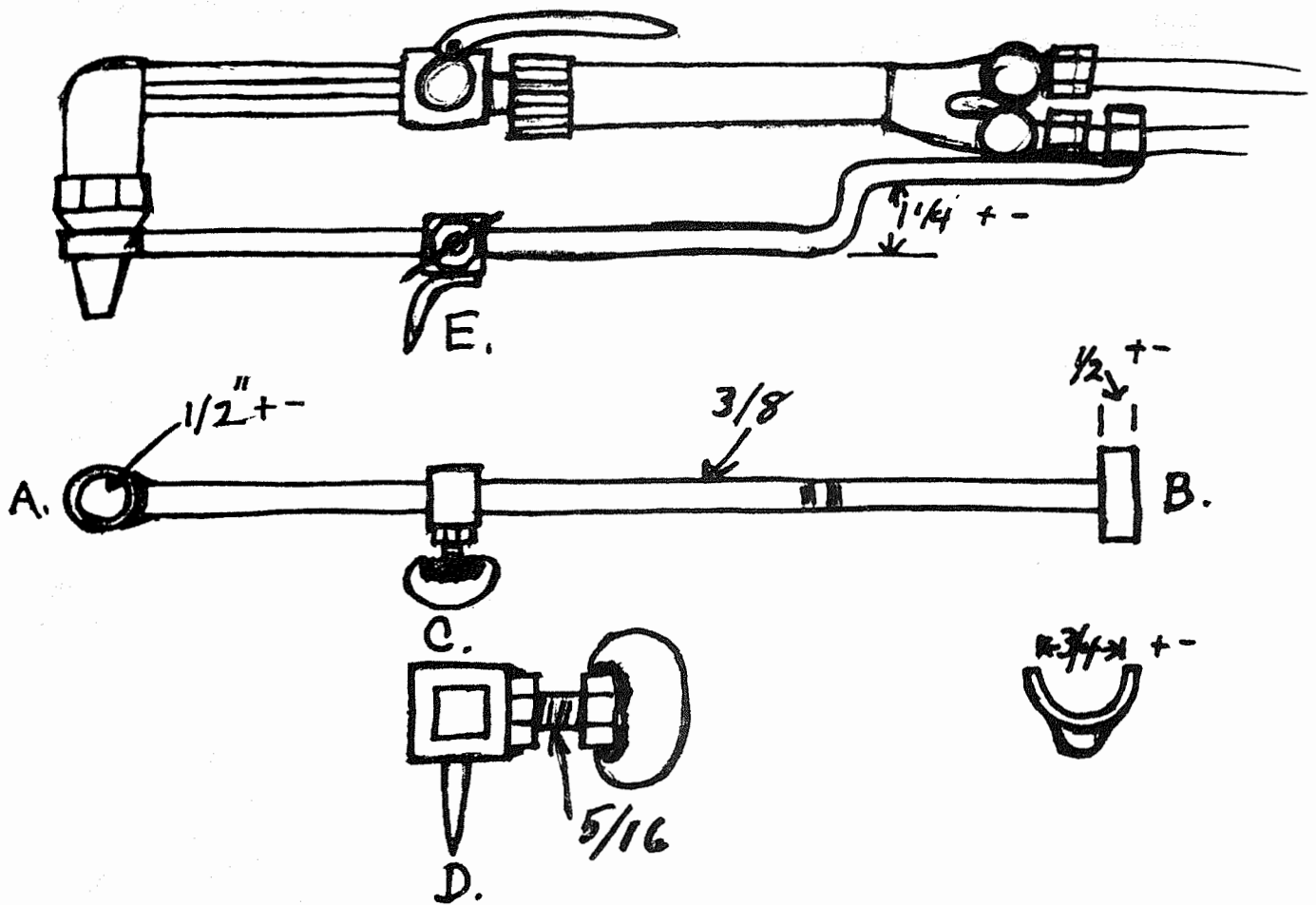


### CIRCLE CUTTER

Circle Cutter is approximately 18 inches long. Adjust the dimensions for your torch.

- To Make: Use 3/8" stock for body.
- A = Cutting tip holder made form pipe
  - B = Saddle to hold back of torch
  - C = Piece of heavy walled square tubing with lock nut on side. Allows adjustment of circle sizes.
  - D = 16 penny nail welded to bottom fits center punch hole. Bending it allows you to adjust height of torch as in E.

- D.J. Stull



## BLOWING HOT AIR

Mike Falk, Blacks Fens Forge

Many discussions have been overheard at NWBA gatherings about whether the primary air for a propane forge should be pre-heated or not and what advantage would be obtained.

The problem with most of the small forges, that I have observed, is that they get too hot. A lot of extra propane is burned. However, some people apparently have some difficulty in reaching welding temperature in their forge.

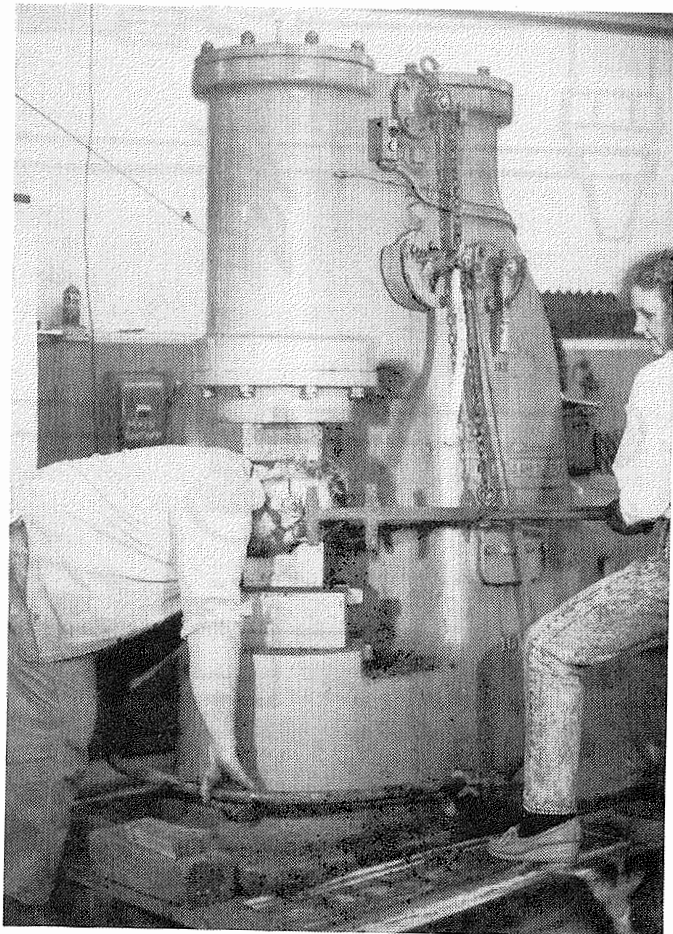
While reading "African Crafts and Craftsmen" by Rene Gardi, Van Nostrand Reinhold Co., 1969, I found a passage concerning iron smelting in western Africa. The native smiths have apparently developed and used this method to increase the heat in their furnaces:

"The oven of the Matakam is fundamentally different. The common double-bowl bellows is not at the bottom of the oven but at the top. This requires a clay pipe, about six feet long, for conducting the air from the bellows to the bottom of the oven. Because these pipes go through the glowing charcoal, the pumped-in air is heated.

Its effect is heightened because, by means of this trick, the reduction temperature in the oven rises. The Matakam smiths thus work like modern ironworkers, with pre-warmed bellows air that is forced into the glowing supply pipe."

The photo showed the smith sitting on top of the furnace working his bellows and protected by a clay wall from the heat and carbon monoxide. Incidentally, he also had an assistant, who plays a harp and sings so that he does not get bored and will have the proper mental attitude to deal with the metal working spirits.

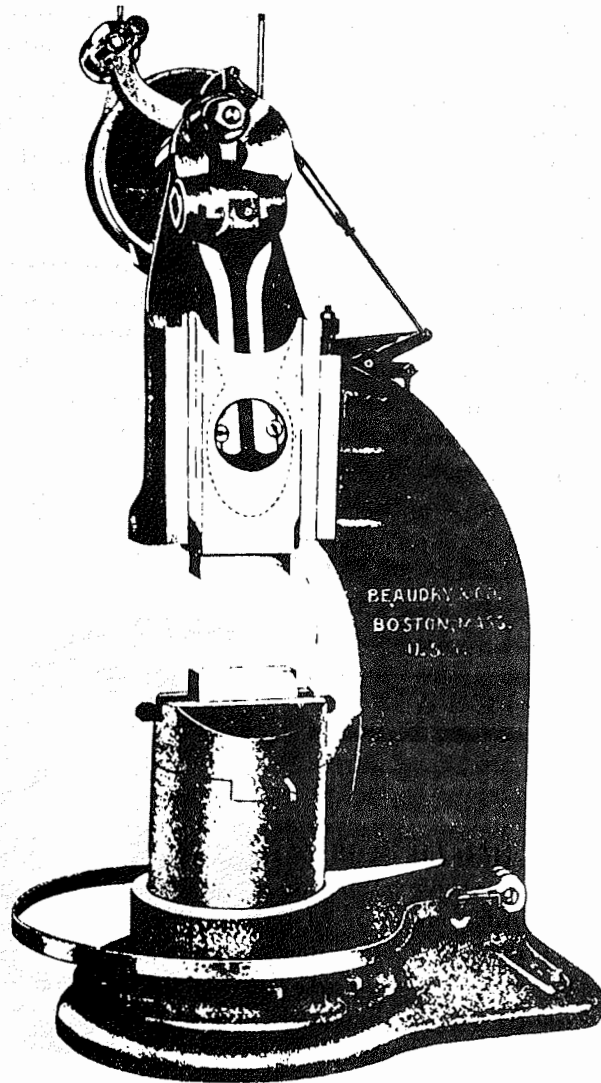
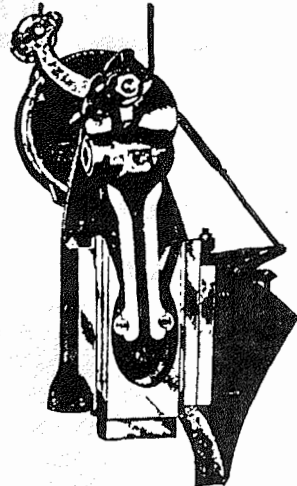
So if you are having trouble with the particular configuration of your propane forge in reaching welding temperature, try using pre-heated air from above your forge to the blower primary air source.



Smooky Adams and his wife forging hammer die faces.



**T**HE BEAUDRY CHAMPION HAMMER has many claims to its favor but foremost are elasticity, control and force of the blow struck by it. These are obtained by a device which is simple, direct-acting and effective, allowing the ram the greatest freedom of throw and causing it to rebound the instant the blow is struck. Its ram or "head" is of steel and has an internal elliptical-shaped track, as shown in the sectional illustration. Two steel spring arms, with hardened tool steel rollers at their lower extremities, operate within the ram on the curved track to lift and throw the ram which, with increased speed of hammer, acquires increased travel and force of blow. This simple and positive action of the spring arms absolutely controls the ram and causes it to rebound the instant the blow is struck without reaction, jump or sudden undue strain on any of the hammer parts.



BEAUDRY CHAMPION HAMMER  
BELT-DRIVE

Elasticity and force of blow are thus obtained and a full stroke can be utilized on varying thicknesses of stock. No change of adjustment is necessary except for unusually heavy or special work.

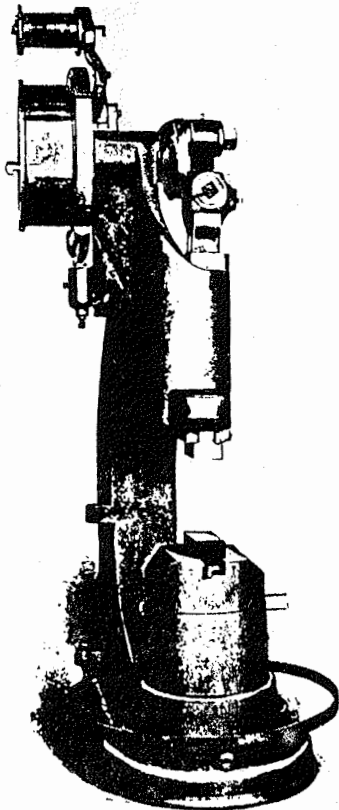
The hammer is started, stopped and regulated by a foot treadle extending around the base of the machine. A varying pressure on it obtains any desired speed or force of blow from one pound and up to its full capacity. An estimated maximum blow of six times the weight of its ram is its full capacity.

*THE FRAME* is cast in one piece, is very rigid and occupies small floor space. It requires only a foundation of moderate size. We supply blueprint plan with order.

*THE RAM* is of steel and is carefully machined and fitted into heavy saucer-shaped guides. It is adjustable on its connecting rod for varying heights above the dies and is at all times contained within its guides, thereby insuring alignment of dies and a true, square blow.

*THE HEAVY RAM GUIDES* are cast solid with the frame. To one of them is fitted an adjustable taper gib to take up the wear. This, on the larger sizes, is a steel casting, brass lined; on others, an all composition casting.

*THE CRANK SHAFT* is of large diameter and has a long steel bearing. It runs in a hard bronze bushing, chambered for oil.



BEAUDRY CHAMPION  
POWER HAMMER  
End View

*THE ANVIL* clears the main frame casting, allowing any length bars to be worked either way of dies. It is an independent casting having no connection with the frame, thus preventing crystallization of the hammer parts. It is held in place by its own foundation bolts and stands in the centre of the hammer foundation, keyed to an independent and adjustable shoe die, to which in turn is keyed the bottom die.

*THE CRANK PIN*, a steel casting of ample dimensions, is adjustable for varying lengths of stroke.

*THE CONNECTING ROD* is of steel and the ram on it is adjustable for varying heights above the dies. It runs on a hard, bronze sleeve, chambered for oil, and to it is keyed the spring box.

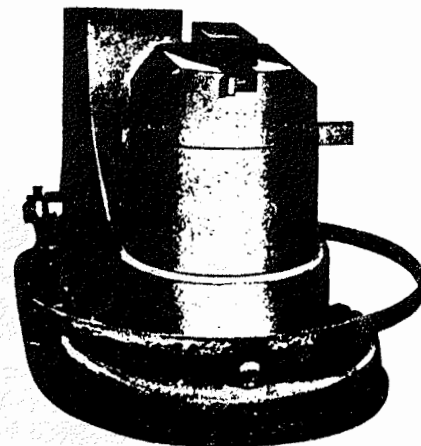
*THE SPRING BOX* is also of steel and into it are fitted the two spring arms which operate within the ram. These are held in place by two tension nuts, by means of which tension on the arms is maintained and adjusted.

*THE SPRING ARMS* are forged from special steel and are carefully tempered. The rollers are of hardened tool steel.

*THE BRAKE* is positive and will instantly stop the machine, holding it at any position of its stroke. In the driving pulley there is a counter-weight to compensate for the weight of the ram. This balances the hammer which stops upward ready for work.

*THE TREADLE* is connected to the brake levers which go up through the hammer frame and to which are also attached the idler pulley connections. The treadle is adjusted to proper height through a slot in the treadle shaft and also by a turn-buckle in the connecting levers. The idler pulley is on a movable stud so that variations in the belt may be taken up. The brake itself is adjusted by a set-screw.

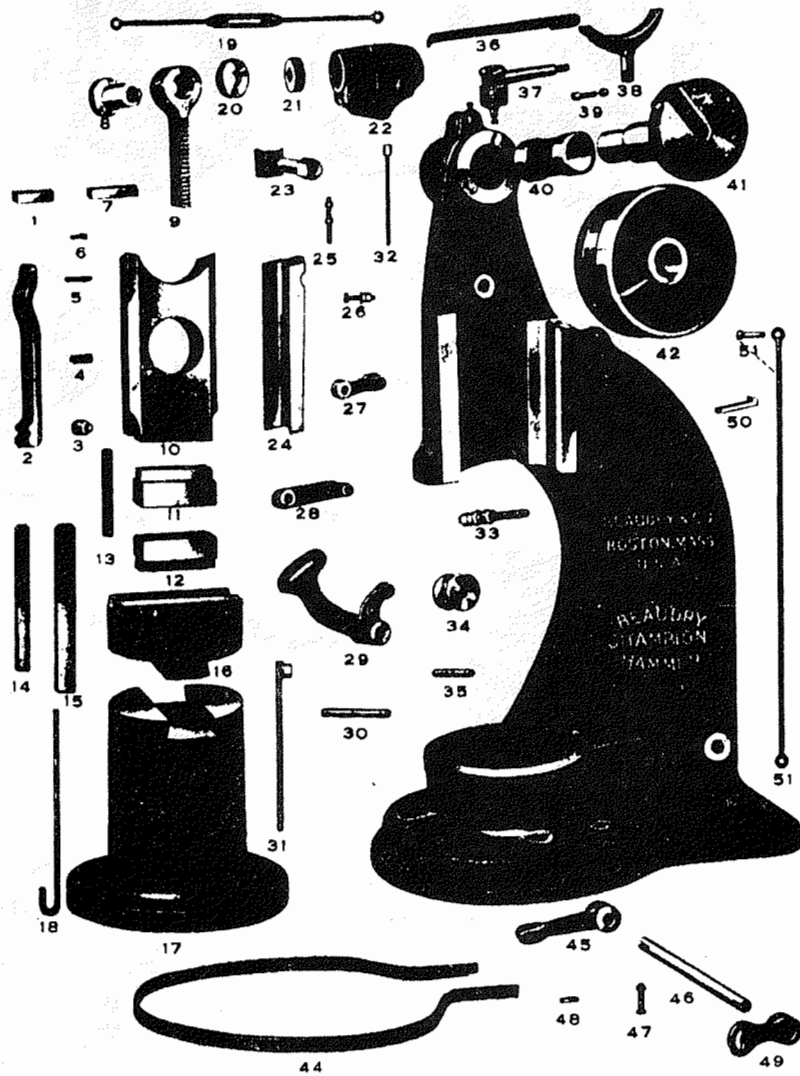
The hammer may be worked to equal advantage from all sides, the anvil clearing the main frame casting, allowing bars of any length to be worked either way of dies.



Bars of any length may be worked either way of dies



PARTS FOR BEAUDRY CHAMPION BELT-DRIVEN HAMMERS

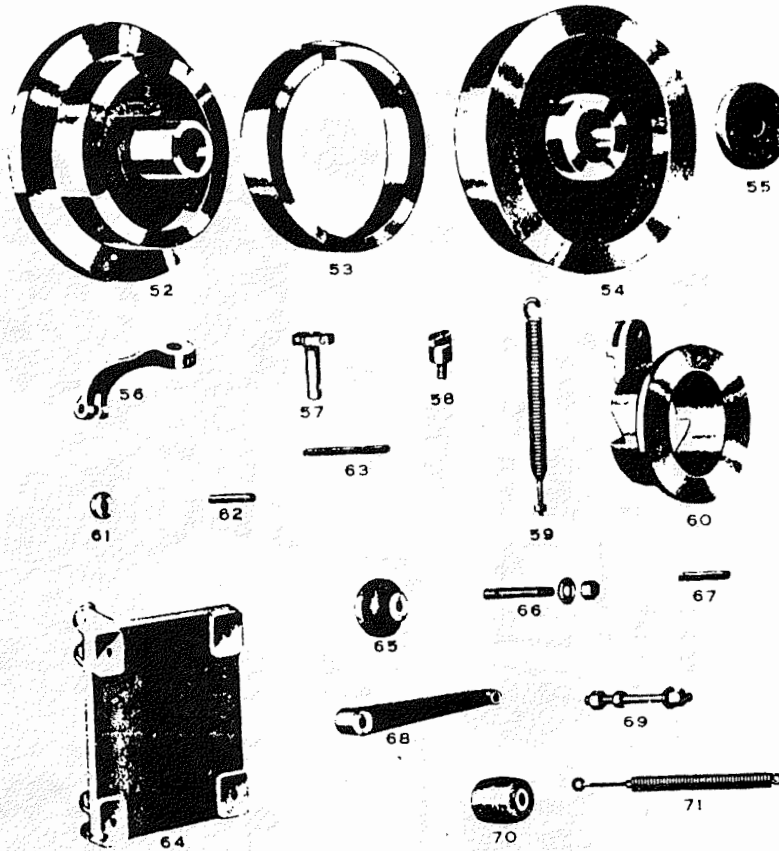


See page 7 for code and names of parts

In ordering parts give number indicated above; also give serial number on Hammer name plate



SPECIAL PARTS FOR BEAUDRY CHAMPION  
MOTOR-DRIVEN HAMMERS



See page 7 for code and names of parts

SIZES AND DIMENSIONS OF BEAUDRY CHAMPION HAMMERS

SIZE OF HAMMER	100 lb.	150 lb.	300 lb.	500 lb.
Weight of Ram, lbs. ....	100	150	300	500
Estimated force of blow, lbs. ....	600	900	1800	3000
*Lift of Ram, inches ....	8	9	11½	13
Will Work Stock, inches ....	2¼	3	4½	6
Size of Dies, inches ....	3½x7	3½x7	4½x10½	5½x12
Height to c. of Shaft ....	5'6"	6'0"	7'0"	7'7"
Floor Space, inches ....	2'3"x3'5"	3'5"x4'	2'11"x4'6"	4'x4'10"
Speed of Hammer ....	275	250	200	175
Size of Pulley, belt-drive ....	16x5	17x5½	19x6	22x7
Size of Pulley, motor-drive ....	16x4½	19x5	22x5½	22x7
Approx. Diam. Motor Pulley, inches ....	5	5¾	5½	5¾
Approx. Horse Power Motor ....	5	5	7½	10
Approx. Speed of Motor, RPM.....	850	850	800	750
Approx. Wgt., belt-driven ....	3000	3700	5400	9000
Approx. Wgt., motor-driven ....	3600	4300	6000	9700

\* At full speed.



# BEAUDRY CHAMPION HAMMERS

## TELEGRAPH CODE FOR BEAUDRY HAMMERS

CHAMPION MODELS COMPLETE

### Belt-Drive Type

Becoy  
Befor  
Being

### Motor-Drive Type

Bycle  
Byend  
Bylaw

### Size

100-lb.  
150-lb.  
300-lb.

### NUMBERS AND NAMES OF PARTS

<i>Code</i>	<i>Part No.</i>	<i>Code</i>	<i>Part No.</i>		
Boceky	1	Notched Key	Bocket	37	Brake Socket
Brigam	2	Spring Arm (2)	Brakey	38	Brake
Bigrol	3	Spring Arm Roller (2)	Brapin	39	Brake Pin
Bispin	4	Spring for Safety Pin	Bamesh	40	Frame Bushing
Bafety	5	Safety Pin	Bashaf	41	Shaft
Beyrew	6	False Key Set Screw	Bulley	42	Pulley
Baseky	7	False Key	Bemarf	43	Frame
Borsig	8	Connecting Rod Bushing	Bredle	44	Treadle
Bonrod	9	Connecting Rod	Breler	45	Treadle Lever
Bramed	10	Ram	Breaft	46	Treadle Shaft
Bietop	11	Top Die	Bebolt	47	Treadle Bolt
Botdie	12	Bottom Die	Brinly	48	Treadle Link Key
Bodiky	13	Top Die Key	Belink	49	Treadle Link
Bomdek	14	Bottom Die Key	Bulkey	50	Pulley Key
Bankey	15	Anvil Key	Brerod	51	Treadle Connecting Rod
Buedhi	16	Shoe Die	Bisder	52	Spider
Banvil	17	Anvil	Boring	53	Ring
Binren	18	Crank Pin Wrench	Bicton	54	Friction Pulley
Bolver	19	Spool Lever Conn. Rod	Basher	55	Washer
Binash	20	Crank Pin Washer	Brevel	56	Lever
Bentum	21	Tension Nut (2)	Bexpan	57	Expansion Pin
Bingox	22	Spring Box	Bamrol	58	Cam Roller and Pin
Bankin	23	Crank Pin	Bering	59	Treadle Connecting Spring
Bowgib	24	Gib	Bowcam	60	Cam
Bidrew	25	Gib Adjusting Screw	Berlor	61	Lever Roller
Bibolt	26	Gib Bolt	Brolin	62	Lever Roller Pin
Bakver	27	Back Centre Lever	Biderk	63	Spider Key
Badeve	28	Back Side Lever	Baplat	64	Back Plate
Blever	29	Spool Lever	Bidlar	65	Idle Collar
Bacaft	30	Back Shaft	Barmud	66	Idle Arm Stud
Butren	31	Tension Nut Wrench	Brikey	67	Ring Key
Binjew	32	Crank Pin Adj. Screw	Bleram	68	Idle Arm
Bolpin	33	Spool Pin	Bidstu	69	Idle Pulley Stud
Bispol	34	Spool	Bidpul	70	Idle Pulley
Bolaft	35	Spool Lever Shaft	Bileng	71	Idle Spring
Brevor	36	Brake Lever			

# ABANA

Artist-Blacksmiths' Association of North America



P.O. Box 1181, Nashville, Indiana 47448  
Executive Secretary, Janelle Gilbert

Office Hours: 7:30-11:30am & 1:30-4:30pm  
Phone: (812) 988-6919

## PRESIDENT'S MESSAGE

February 1990

Dear Friends,

We are in full swing as we enter 1990. We are currently working with Conference Site Chairman, Charlie Orlando to finish the 1990 Conference packages. Charlie has earmarked mid-February as mailing date. There will be a substantial savings to those who pre-register, so watch your mail box.

Ham Hammond has resigned from the ABANA Board as of January 1st, 1990 and we are in the process of selecting a replacement for this position. We will be reviewing the candidates from the last election as well as any suggested by the current board members. ABANA is severely overloaded with work and we will be looking for a person who can help with this load. I will update you as soon as the ballots are counted.

We have chosen Allan Flashing from Texas to be the 1990 Conference photographer. Allan documented the Cardiff conference for ABANA and did a very impressive job. We are expecting a very professional documentation portfolio from Allan on the ABANA 1990 Conference to be held at Alfred State College.

Overall Conference Chairman, Mike Bondi, reports the 1990 auction challenge is in full swing with several chapters signed up to participate. Each chapter is trying to outdo the other with a project designed and executed by its members. I can hardly wait to see these projects. If your chapter wishes to participate, please contact Michael Bondi, 1818 Shorey St., Oakland, CA 94607 - phone: (415) 763-1327.

I urge all of you to be thinking of who you would like to represent us on the ABANA Board in the 1990 fall election. There will be five positions open and I know you all have people in mind for these slots. I urge you to consider the large workload that each member must shoulder. We need people who are currently in a time frame to deal with this vast amount of work.

Watch your mailbox for your pre-registration packet! I'll see you next month for an update.

Warm regards,

A handwritten signature in cursive script that reads "Dorothy Stiegler".

Dorothy Stiegler

DES/jrg



**WESTERN BLACKSMITHS ASSOCIATIONS**

**ARIZONA ARTIST-BLACKSMITH ASSOC.**

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Buckeye, AZ 85326

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Willits, CA 95490

**ROCKY MOUNTAIN SMITHS**

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Aurora, CO 80012

**INLAND NORTHWEST BLACKSMITHS ASSOC**

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Kennewick, WA 99337

**SOUTHWEST ARTIST-BLACKSMITHS ASSOC.**

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**TEXAS FORGE REVIEW**

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Grand Island, NE 68801

**WESTERN CANADIAN BLACKSMITHS**

P.O. Box 3442  
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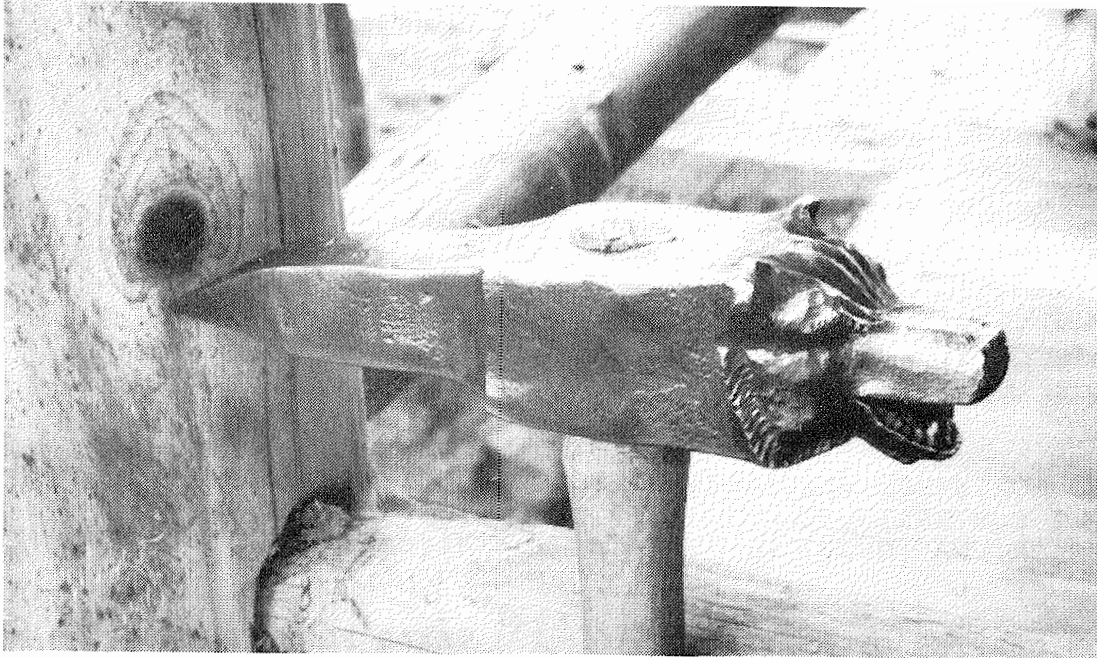
NAME: \_\_\_\_\_ DATE: \_\_\_\_\_

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TELEPHONE: (\_\_\_\_\_) \_\_\_\_\_



Jim Hatmaker and Darryl Nelson **WAR B'AR** To be auctioned in Corvallis.

**WANTED:**

25# or 50# power hammer. Contact John Foltz at Comet Neon, 4889 Banner Rd., Port Orchard, WA 98366. (206) 861-0278. No phone in shop, leave message or call after 7 pm.

**FOR SALE:**

Kao-wool, \$1.45 per square foot. Contact Jerry Henderson at the Spring Meeting in Corvallis or call (503) 397-4537. Jerry also has a new product similar to Kao-wool but better available.

**FOR SALE:**

150# Beaudry Champion Trip Hammer, dies to make shackles from 3/4" to 1 1/2" and a large box filled with tongs and swages collected over the past 70 years. Contact Stephen Weber, Purchasing Agent, Duncan Iron Works, P.O. Box 855, Duncan, B.C. V9L 3Y2. See pages 35 through 39 for information provided by Stephen Weber about the hammer.

**WANTED:**

ABANA is asking for donations for the 1990 Conference Auction and Iron-in-the-hat drawing. If you wish to donate ahead of time, send your items to Charles Orlando, Box 37 Ackerman Hill Rd., Belmont, NY 14813. Indicate whether the piece is for the auction or the drawing. For more information contact James Robarr at (716) 433-8564 or Charles Orlando at (716) 268-7383.

**WANTED:**

On Saturday, May 19th, the Oregon Draft Horse Association will have a plowing contest on the grounds of the Rock Creek Community College near Hillsboro, Oregon. They would like to have a blacksmith demonstrate for a few hours, The understand the a blacksmith is not a farrier. If you are interested in participating contact Ike Bay at 13105 N.W. Ridgetop, Portland, OR 97229 or call (503)645-2790.

**WANTED:**

If you are planning to attend the 1990 ABANA Conference at Albert, NY, please contact Karen Wagner at 711 Taylor St., Port Townsend, WA 98368 or call (206)385-0256 after 7pm.

**WANTED:**

Shear, tire bender and bolt header. Contact Ike Bay at 13105 N.W. Ridgetop, Portland, OR 97229 or call (503)645-2790.

**WANTED:**

200# to 300# air hammer. Contact Mark Bokenkamp at 10132 Liberty, Powell, OH 43065 or call (614)889-0819.

**WANTED:**

Articles, announcements, photographs, drawings and advertisements (free to all members). Send them to Karen Wagner at 711 Taylor St., Port Townsend, WA 98368 or call (206)385-0256 after 7pm.

**WANTED:**

25# power hammer in any reasonable condition. Contact Mark Kelz, Box 858, Cave Junction, OR 97523.

**WANTED:**

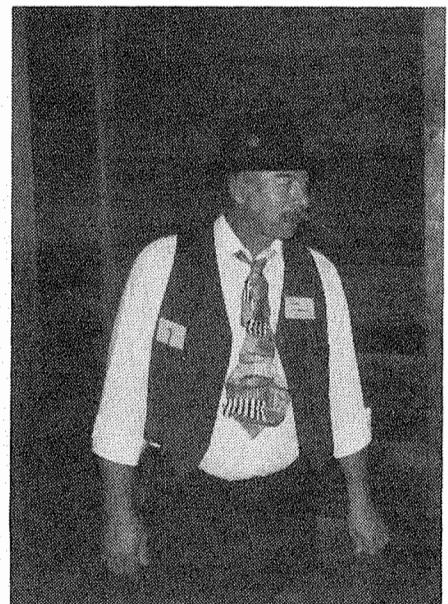
A new tie. Not just any tie will do. I want a Skippy tie like my old one. If you know of one hanging around somewhere, please let me know. You can reach me at Old Cedar Forge, East 220 Cronquist, Allyn, WA 98524 or call me at (206)275-6769.  
photo by Lloyd Hedglin.

**FOR SALE:**

Flat dies for Little Giant 50# hammer, made of 4340, heat treated, \$150 a pair. Dies for Chambersburg and other hammers also available. Contact Smokey Adams at P.O. Box 311, McKenna, WA 98558 or call (206)458-2777.

"If a little knowledge is dangerous, where is the man who has so much as to be out of danger?" T.H. Huxley

"We must beat the iron while it is hot, but we may polish is at leisure."  
John Dryden

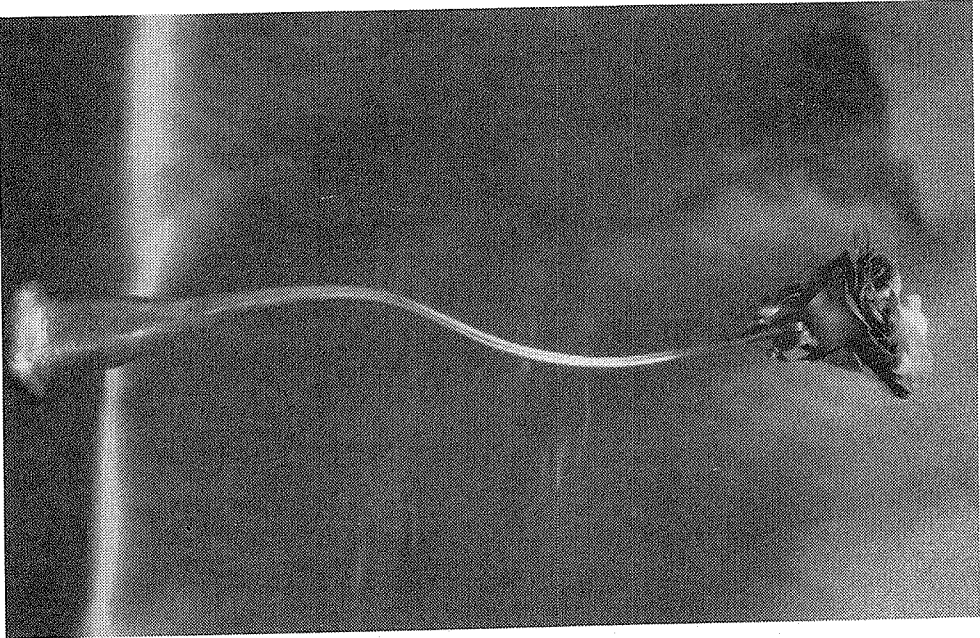


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