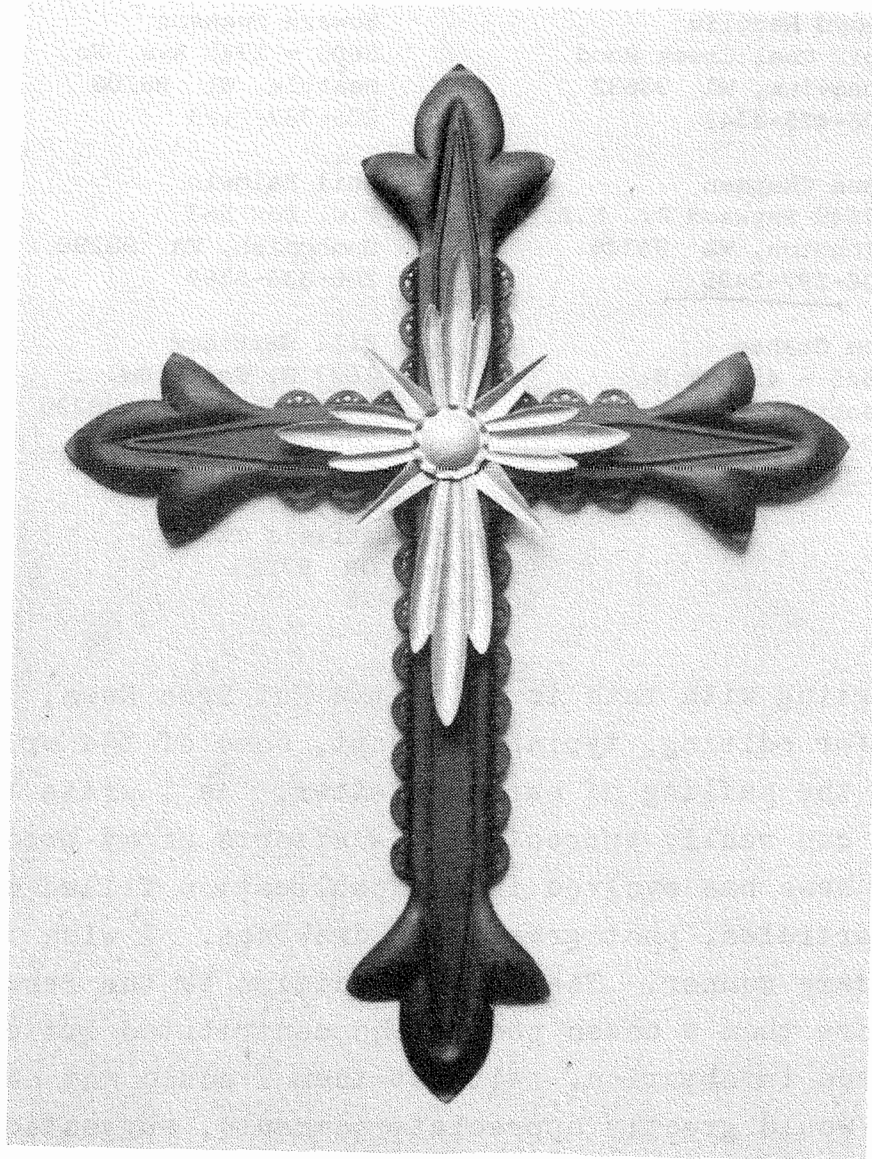




CHAPTER OF ABANA

Hot Iron News

JANUARY 1988 -- Voice of the Northwest Blacksmiths Association



WALL CROSS

Repousse by NAHUM HERSOM

N. W. B. A.
Box 81041, Seattle, WA

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Starting with this issue of the Hot Iron News, I am responsible for editing, typing, lay-out, some of the writing, printing and the mailing of our newsletter. As I write this final paragraph, I can really appreciate the efforts of my predecessors. The Hot Iron News has evolved into a publication filled with news, interesting articles, photographs and drawings. I wish to continue in much the same manner. The present edition is the result of the efforts of more than a dozen people who contributed articles, ideas, photographs and information. Without them I could not have put it together. I would greatly appreciate comments, suggestions, ideas, and material for publication. Without you, the members of NWBA, there can be no Hot Iron News. Let me know what you want in your newsletter!

I'll see you all in March!


Karen Wagner

Announcements

PETER ROSS WEEKEND

March 12-13, 1988

Make your plans now to attend. The meeting will be held at Ike Bay's Bay View Farm near Hillsboro, Oregon. Directions to Ike's may be found on the back cover.

Peter Ross is Master of the Blacksmith Shop at Colonial Williamsburg in Williamsburg, Virginia. We can look forward to demonstrations of traditional tools, utensils and hardware.

Bring your notebooks, something for the Saturday night potluck and something for the auction. Expect a great learning experience!

Nahum Hersom Repousse Workshop

The workshop with Nahum Hersom which was sadly cancelled last October will be rescheduled for sometime in May of 1988. Keep it in mind!

VACLOV JAROS WORKSHOP

May 1988 - Study in Prague, Czechoslovakia, in an intensive training workshop under Vaclov Jaros. Two 14-day classes will be offered with "hands on" training as well as historical lectures and field trips. Five students per class. Contact Luba Ruzicka, Luba Travel, 103 W. 5th St., Taylor, Texas 76574. (512)352-8595

1988 ABANA CONFERENCE

June 16-18

Sloss Furnace in Birmingham, Alabama.

MEETING SITE SEARCH

NWBA needs new sites for its two annual meetings and various workshops. If you have a shop or other usable space or know of a space we might be able to use, please contact Gene Chapman or Karen Wagner. Let's give Darryl Nelson and Jerry Culberson a break and see a new part of the world!

A NOTE OF THANKS

To all the NWBA board members who showed up at my ranch and helped fabricate a much needed gas forge and installed our 50# Little Giant hammer. Helping one another and sharing skills is what NWBA is all about.

Thanks,

Bill & Rose Martinez

AFFIXING HAMMER HANDLES: T I G H T L Y.

Here are some steps for affixing hammer handles to the heads so they fit and stay tight:

- 1) Use a sharp draw knife to shape the handle to fit the hammer head, This is important as some forged hammer heads have weird eye dimensions.
- 2) Saw a slot in the handle to a depth equal to three-quarters of the hammer-head hole.
- 3) Now you are ready to drive the handle down into the head. I upend the whole thing over the leg vise with the jaws opened wide enough for the handle to extend through the hammer head.
- 4) Using a hacksaw with the blade repositioned a half turn, cut off the excess handle material above the hammer head (don't cut too close or you will leave ugly saw marks on the head).
- 5) Drive a wooden wedge into the saw kerf.
- 6) Drive an iron wedge into the handle crosswise to the wooden wedge.
- 7) Soak the hammer head assembly in antifreeze for two days (the wood will expand and not dry out).

Now isn't that simple?

W. Gaedtka

Reprinted from The Tuyere, newsletter of the Illinois Valley Blacksmith Association, August, 1986.

Bay View Farm

Home of Rock Creek Shire Horses

Rt. 1, Box 909

Hillsboro, Oregon 97124

May 8, 1986

Terry Carson
EDITOR/NWBA
Route 2, Box 292-C
Eatonville, WA 98328

Dear Terry,

Hammer tips from poking around Peter Ross' tools.

1) The Basic Hammer...starting with one and 3/8 square stock (approx) he makes a simple cross peen about 4 and 5/8 inches tall. The peen is ground mostly flat so it pushes the metal but does not put deep valleys in it. Punching the eye and pulling the peen naturally makes the hammer wider at the top. The face is also relatively flat. Peter hammers the material very close to final shape and does only a shallow filing to bring the piece to the finished condition. The handle is made to fit the hand. The fingers should ALMOST touch the palm but not quite. This may result in a thinner handle than some of you are used to but you might find it helps your control. Peter struck often and hard sometimes cocking the hammer so it fell on the iron at an angle.

IB/d1

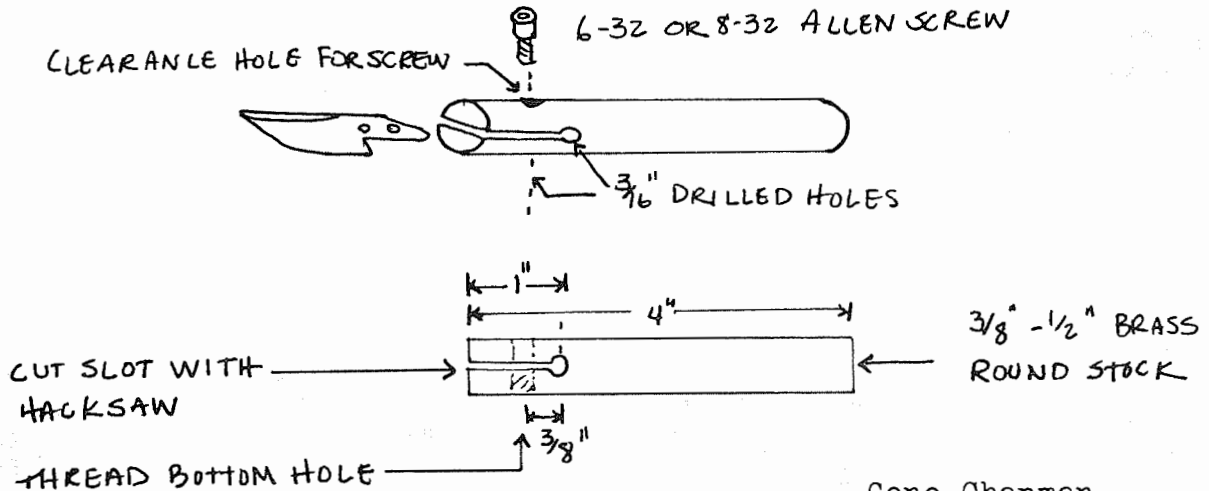
Ike


A BLACKSMITHING MUSEUM IN SALMON, MONTANA?

Dave and Babe Brandon sent in an article from the 'Bitterroot Missoulian'. It seems that Jay Sharp, a local blacksmith, has put a proposal before the Salmon City Council calling for a blacksmiths' hall of fame. Jay Sharp has all the items needed. The city would supply a building and any other needed materials and labor necessary for setting up the museum would be donated.

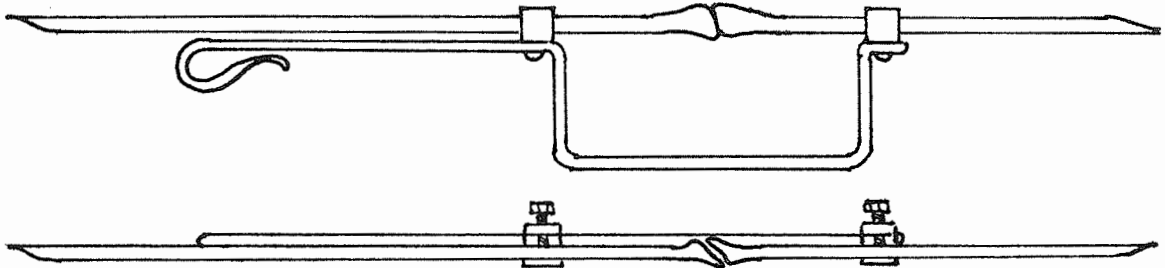
MINIATURE KNIFE GRINDING FIXTURE

Grinding miniature knives from small damascus pieces can be frustrating. The steel heats quickly and finger tips disappear at lightning speed on a belt grinder. For most miniatures I use a brass holding fixture similar to the one below.



TWO JIGS FOR FORGE WELDING

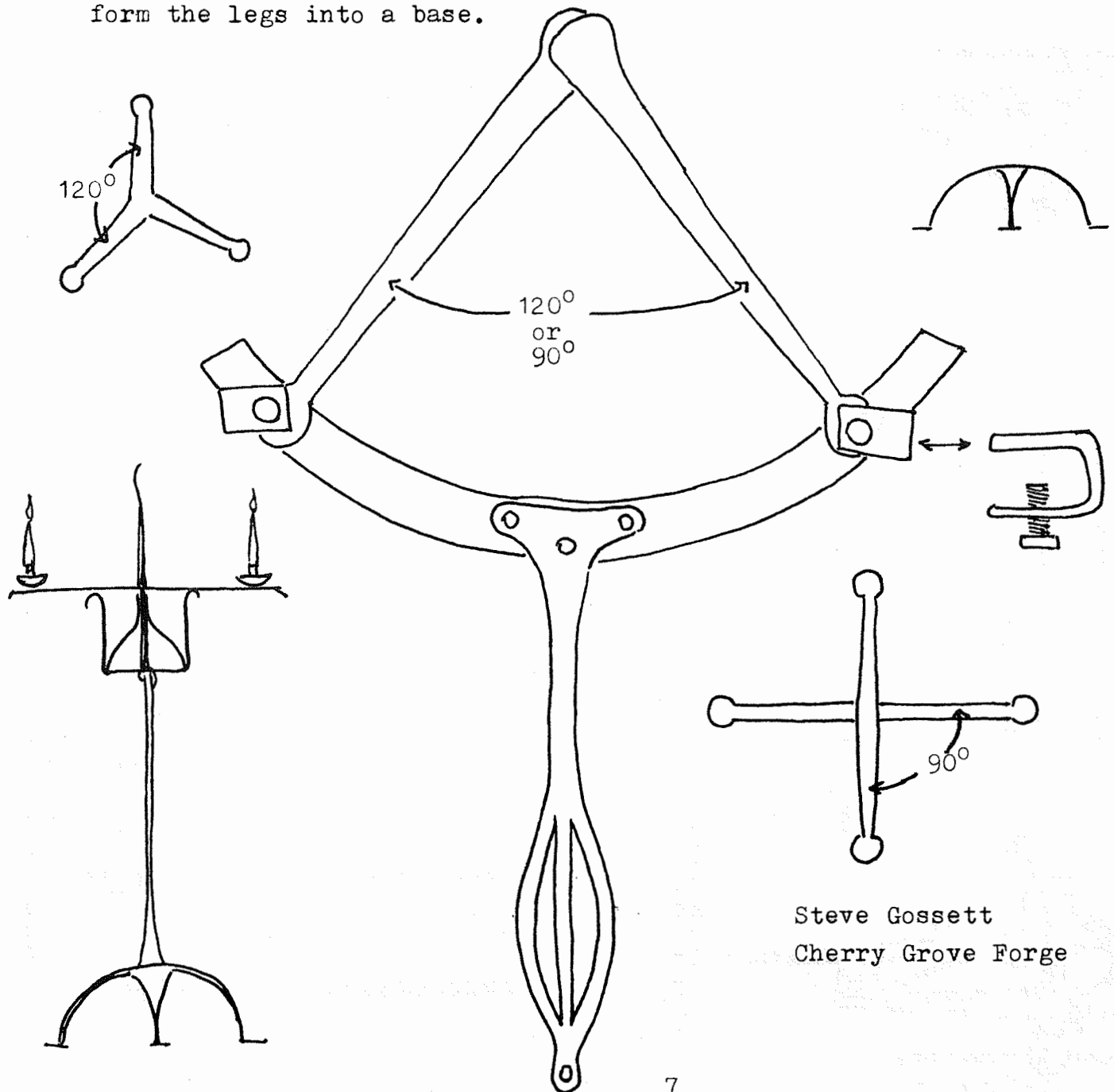
Not having a real flesh and blood helper, this is one of many I have made of steel. I use this for welding 2 shafts, rods or bars together. These can be made for long, short, heavy or light work. Just make sure the clamps are far enough apart so they won't melt in a hot fire.



The handle can be made as long as needed to support long pieces. I upset and scarf the pieces to be welded. Then I clamp them in place, adjusting the pieces so the scarfs touch and lap properly. I then bring the scarfed ends to welding heat and stick the two together with one or two blows, unclamp, reheat and finish my weld.

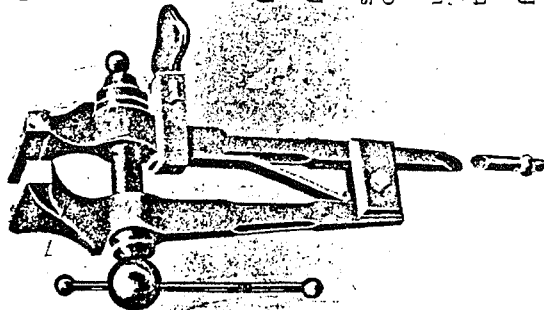
The second jig is one I use when welding legs for candle stands. I use sheet metal templates in positioning the legs at 90° or 120° angles depending upon whether I'm using 4 or 3 legs. Three leg bases are completed in two welds and four leg bases in one weld.

To make a three leg base, shape the legs as desired and scarf the ends to be welded. Position two legs as shown, 120° apart. Position scarf ends correctly and weld. Loosen the clamps and rotate the legs 120° . Clamp one leg of the first weld and the third leg into position and weld. After welding form the legs into a base.



"ORIGINAL TRENTON"
(Trade-Mark Registered U. S. Patent Office)

Solid-Box Wrought-Steel
Blacksmiths' Vises



The front and back jaws of these vises are each forged from one piece of special ingot steel.

The jaw-facings, of crucible tool steel, are welded far enough down to relieve any possible strain.

This jaw-facing steel is hard enough to stand the squeeze and yet not hard enough to injure a cutting tool coming in contact by chance.

The box is deeper and the jaws open wider than is usual with the type; they open the full width—no less. They admit of a wider range of work in proportion to their size than any other on the market.

Then again, they are never under weight. They are from five to seven per cent over weight. For illustration: a 45-pound vise will weigh from 47 to 49 pounds.

The jaw's faces are accurately ground and polished—they come together flat and in perfect alignment.

The unfinished parts are given a good coat of pure asphaltum paint, and the polished parts are protected in slipping by burlap.

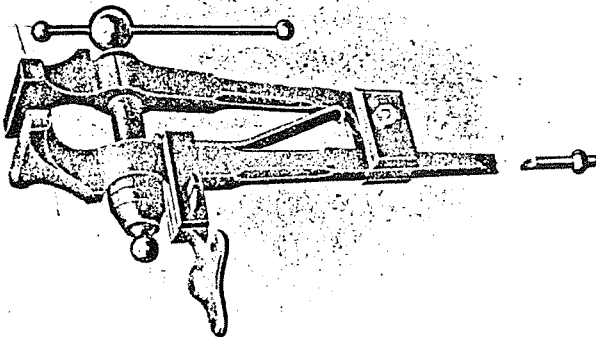
No.	Weight Pounds	Length of Jaws Inches	Depth from Top of Jaw to Top of Box Inches	Vise Opens Inches	List Price
25	25	3 1/4	3 1/4	3 1/4	\$12.00
30	30	3 3/4	3 3/4	3 3/4	11.00
35	35	3 3/4	3 3/4	3 3/4	10.00
40	40	4	3 1/2	4	10.50
45	45	4 1/4	3 3/4	4 1/4	11.00
50	50	4 1/2	4 1/2	4 1/2	11.50
55	55	4 3/4	4 1/2	4 3/4	12.00
60	60	5	4 1/2	5	13.00
65	65	5	4 1/2	5	14.00
70	70	5 1/4	4 3/4	5 1/4	15.00
75	75	5 1/4	4 3/4	5 1/4	16.00
80	80	5 1/2	5	5 1/2	17.50
85	85	5 1/2	5	5 1/2	18.50
90	90	5 3/4	5 1/4	5 3/4	20.00
95	95	5 3/4	5 1/4	5 3/4	21.00
100	100	6	5 1/2	6	22.00
110	110	6	5 1/2	6	24.00
120	120	6 1/2	6	6 1/2	25.00
130	130	6 1/2	6	6 1/2	26.00
140	140	7	6 1/2	7	29.00
150	150	7	6 3/4	7	33.00
160	160	7 1/4	7	7 1/4	36.00
170	170	7 1/4	7	7 1/4	41.50
180	180	7 1/2	7 1/2	8	44.50
200	200	8	7 1/2	8	47.00
					53.00

Every Vise Fully Warranted

In ordering solid-box vises, in addition to the number, give the weight, size and width of the jaw opening

"ORIGINAL TRENTON"
(Trade-Mark Registered U. S. Patent Office)

Solid-Box Wrought-Steel
Horseshoers' Vises



Columbian Horseshoers' Solid-Box Vise can be used for blacksmithing and horseshoeing. The flat front jaw is its helpful feature for horseshoers. This flat surface is at right angles to the bearing surface and is used for turning both calks of the shoe at one heat. The extra width of jaws and the extra depth from top of jaws to top of box allows the vise to hold any size of shoe securely.

The Horseshoers' Vise has a greater working capacity than a Blacksmith's Vise of the same weight; for instance, a 60-pound Horseshoers' Vise opens six inches (6"). A 60-pound Blacksmiths' Vise, five inches (5").

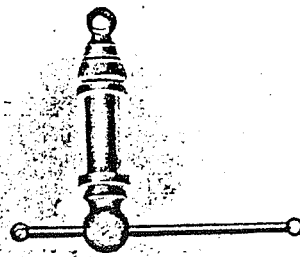
No.	Weight Pounds	Length of Jaws Inches	Depth from Top of Jaw to Top of Box Inches	Vise Opens Inches		List, Each with Anvil	List, Each without Anvil
				6	6		
60	60	6	5 1/2	6	\$20.50	\$18.00	
65	65	6	5 1/2	6	22.00	19.50	
70	70	6	5 1/2	6	23.50	21.00	
75	75	6	5 1/2	6	25.00	22.50	

80, 85 and 90 pound sizes may also be supplied; other dimensions same as above table.

Boxes and Screws for
Solid-Box Wrought-Steel Vises

The Columbian Box and Screw is fitted with patent concaved and convex washers that act as a check nut, taking the direct strain from the screw, and removing all liability of stripping the thread or breaking the screw. The handle and screw are hot-forged; the hole that receives the handle is punched while hot; ends of handles are upset; making it a complete hot-forging, which means strength.

The friction that is created by the handle running through the screw-head is lessened by the smooth polished surface of the handle; this makes the vise easier to manipulate.



No.	Size of Vise	Diameter of Screw Inches	Diameter of Box Inches	List, Each
1	25 to 40	1	1 1/2	\$3.50
1 1/2	45 to 55	1 1/4	1 3/4	4.00
2	60 to 75	1 3/4	1 3/4	4.50
3	80 to 95	1 3/4	2 1/4	7.00
4	100 to 150	1 3/4	2 3/4	9.50
5	160 to 200	2	2 3/4	

THE COLUMBIAN LEG VISE

The Columbian Vise Division of the Warren Tool Corporation, located in Cleveland, Ohio is still making quality vises. This company made leg vises during the first half of the twentieth century with distributors throughout the U.S.A. and Europe.

Two models were made: the blacksmiths' vise and the horseshoers' vise. The blacksmiths' vise was made in many sizes from 25 lbs. to 200 lbs. The horseshoers' vise was made in fewer sizes from 60 lbs. to 75 lbs. The latter differed from the blacksmiths' vise in a number of ways: the front jaw had a flat top (used for turning calks), extra wide jaws, and extra depth.

With time changes were made in the construction of the leg vises. In the later models the legs were left plain and not fullered, the spring was U-shaped, the screw box was shortened and not as ornate, and the bench plate was held to the vise by a U-bolt rather than by a clip and key.

Hugh E. Eddy

FORGED STEEL LEG VISES

The jaws of Columbian Leg Vises are accurately drop forged in closed dies from high carbon steel, and are heat treated to produce hard, tough gripping faces. The U-bolt bench fastening cannot work loose or come off. U-shaped spring increases ease of operation.

Extra large sizes, especially adaptable for railroads, mines, road builders and structural steel works, are made for all jobs requiring special heavy service of a vise.

COMBINATION LEG VISES

Sets of three removable pipe jaws, furnished on the three smaller sizes at a slight additional cost, increase the usefulness of this type of vise. For rounds and pipe work in plumbing shops, garages, pipe lines, and blacksmith shops.

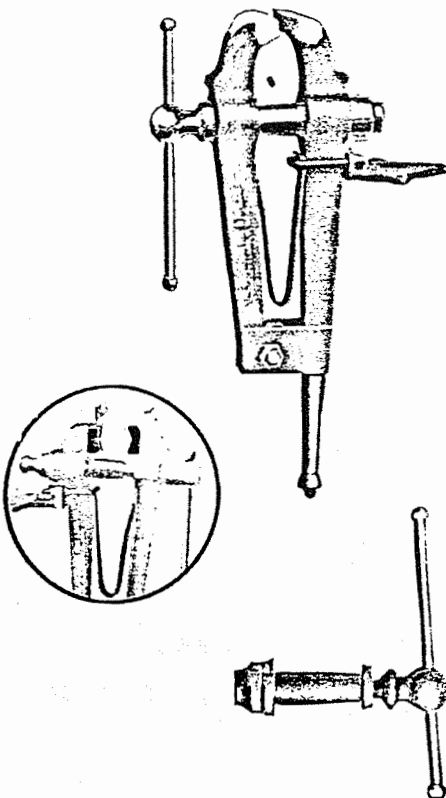
Vise No.	List Price	Jaw Width Inches	Jaw Opening Inches	Approx. Weight Pounds	Code Word
STANDARD					
35	10.00	4	3 1/4	35	RACER
50	11.50	4 1/2	4 1/2	50	RADIO
70	18.75	5	5 1/4	70	RANCH
100	27.50	6	6	100	RANGE
HEAVY DUTY					
150	54.00	7	7	150	RAVEN
200	84.00	8	8	200	RAZOR

COMBINATION PIPE

Vise No.	List Price	Pipe Capacity	Code Word
35P	11.00	Up to 2 in.	36
50P	13.00	Up to 2 1/2 in.	51
70P	21.50	Up to 3 1/2 in.	71

PART LIST FOR COLUMBIAN LEG VISES

No.	Diam. of Screw Inches	Size Vise	Nut Only	Screw Only	Complete Screw and Nut	Pipe Jaws Per Pair	Springs	
							Size Vise	List Price
1	1 1/8	35 - 50	1.25	2.25	3.50	1.00	35 - 50	.75
2	1 1/4	70	1.50	2.50	4.00	1.50	70	1.00
4	1 1/2	100 - 150	2.00	4.50	6.50		100	1.00
5	2	200	2.50	8.50	11.00		150 - 200	1.50



Columbian Hardware Co. 1940

THE JANUARY NOVICE WORKSHOP

The recent novice workshop, held at Jerry Culberson's Old Cedar Forge in Allyn, Washington, was a big success as usual. 13 of 14 students showed up for the workshop. (There was a large waiting list so another workshop is scheduled for February 25-27 for those who didn't attend the January workshop.) Four propane forges and eight anvils were used as well as many other tools in Jerry's wonderful shop.

FRIDAY - The first project for the day was a S-2 tool steel punch and chisel that the students used to make their "Poz" tongs. Darryl Nelson demonstrated making the punch, chisel and tongs. Phil Baldwin demonstrated forging a socket chisel. After 6 PM Jerry Culberson forged some leaves; ivy and a long variety with a neat little crease in the middle. Darryl Nelson demonstrated a basket handle poker and Phil Baldwin made "son of God's own scarf." Jerry Culberson gave us some useful hints on working around the anvil and told some thrilling stories. It was around 2 AM when the last anvil, forge and tong talk ended.

Before I get to Saturday's activities the student roster went like this: Alaska and Oregon each produced two students with the remaining students nine from Washington. Meals were a co-op venture with bacon and egg breakfasts, barbecue steaks, hamburgers and spaghetti feed dinners, chicken noodle soup and cold cuts thrown in for lunch. If it hadn't been for the hard physical (honest) labor of blacksmithing, everyone would have gained a few pounds.

SATURDAY - Phil Baldwin took us back to the good old days by using charcoal to forge a knife. It was a delight to see how close to the final shape and size such a talented bladesmith can forge. Then Jerry Culberson forged a nice poker demonstrating the students' next project. Later Gene Chapman forge-welded cable and demonstrated making Damascus. Students worked on their pokers and other projects, stag horn hinges, fire place tools, knives, cable forging and custom horse shoes the remainder of the day. Saturday night, Phil Baldwin narrated a slide show of various types of forged artworks, gates and miscellaneous ironwork. It was a nice way to wind down from all the work and play.

SUNDAY - Phil Baldwin gave a very informative heat treating demonstration and Darryl Nelson gave some fine points on



hold downs, splitting and shearing on the anvil's edge. He also made a horse head hoof pick, a dog bone twist and a pipe candle socket. Students continued with their projects.

Sunday afternoon students were presented with a certificate of accomplishment, had graduation pictures taken and continued with individual projects. About 2:30 we cleaned up Old Cedar Forge and the students took all their goodies home for show and tell.

Thank-you all for participating in the workshop. It was great! If I forgot anything or anyone, I'm over 40 so its OK.

Gene Chapman

NOTE: For all who have attended a novice workshop - if you want to participate again, do so. You can start where you left off or work on special projects and techniques.

BUILDING AN INDUSTRIAL FORGE FIRE

For those of you who still like coal, here is the fire for production work where you have a number of similar pieces to forge, especially larger pieces. It was taught to me by an industrial smith. This fire has a number of advantages over a standard forge fire; it produces a clear, clean, coke fire, gives steady, intense heat, and, although more time-consuming to build initially, once built it requires a minimum of tending. I have used this fire for heavy work for seven years now and have seen nothing better.

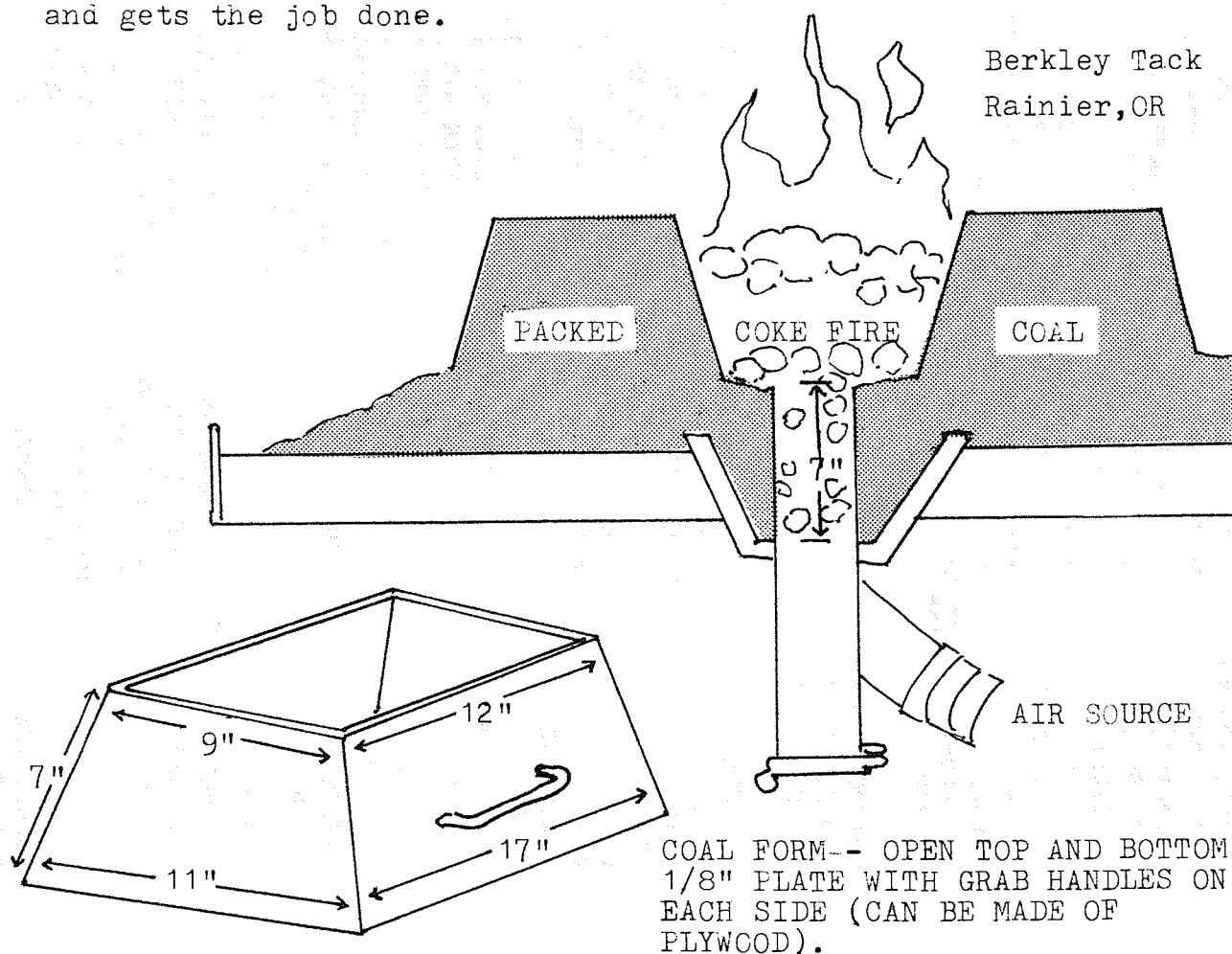
It requires good coking coal, one sack per fire. The coal should have enough fines to pack tightly when moist and leave a minimum of air spaces. The tighter it packs, the more dense and plentiful the coke will be. Bigger pieces just stuck together make "popcorn" coke, which burns too fast. You also need to purchase a sack of coke to start with. The principle is that the coal is packed in forms on the hearth to make two elongated mounds with a trough between them, and a hole for the blast in the trough. The packed coal turns to coke, which is later broken up and used for the next day's fire. The coal mounds are never touched during the work day, only coke is added to fuel the fire. The hotter and longer you burn this fire, the greater the percentage of the coal mass converted to coke.

To build: Mix coal in a tub with water until moist enough to pack, not sloppy wet, as this will slow the fire. Stand a piece of pipe, wood, etc. over the tuyere (12" of 4" pipe works well in my forge). Fill around it with moist coal, tamp firmly with the top of a heavy cross-pien hammer. Add a 3" layer of coal over top of forge, again tamp well around pipe. Set up forms on either side of the pipe, 8" or so apart. Fill these forms, tamping well as you go. Gently remove forms, then wiggle center pipe and pull out. Bricks and, or coal can be built up at the back of the fire to contain it better. A couple of bricks placed at the front serve as a stock rest. Fill the air hole with broken coke, start blast and light with torch. Make a mound of coke over fire, and when it's going well, spread the

burning coke out with a rake. Coke should be maintained at 2/3 depth of side mounds, a shovelful at a time. Heat increase as packed coal begins to coke, so let the fire "warm up" 10 minutes or so before adding your iron. This also helps solidify the mass so its more durable.

At the end of your workday, let the fire cool down. If your coal is of the type that tends to smoulder all night and consume too much coke, tear your fire apart after a few hours, otherwise, wait until morning. Coke should be in a large doughnut shape, dense and silvery with cracks running through it. When the fire is dead out, put coke in a garbage can and break up with a short pointed shovel until no pieces are larger than a tennis ball and most are smaller with some fines. Put unburned back in coal tub, add another sackful, moisten and your ready to build another fire.

Lately, I get about 50 pounds of coke and 10 pounds of clinker and ash out of a good day's fire. This fire will accomodate several irons, is maintenance-free, is clean, hot and gets the job done.



N.W.B.A.

ADAMS, EDWARD	EDWARD ADAMMS III	1310 N.E. 70TH	SEATTLE	WA	98115	206 522-1130
ADAMS, SMOKEY	SMOKEY ADAMS	1012 W. SOPRIS CREEK RD.	BASALT	COLORADO	81621	303 927-3725
AHLQUIST, RAY	RAY AHLQUIST	22215 DORRE DONWAY S.E.	MAPLE VALLEY	WA	98038	206 432-4343
ANDERSON, KIM	KIM ANDERSON	P.O. BOX 2552	PORT ANGELES	WA	98362	206 457-4890
ATHERLEY	BEN ATHERLEY	RT. 1 BOX 425 M	KETTLE FALLS	WA	99141	206 684-8701
BABCOOK	BRENT J.G. BABCOOK	2351 - 58TH AVE. E. APT 5	FIFE	WA	98424	206 922-9521
BAIRD, JAMES	JAMES BAIRD	1358 VIEWPOINT DR.	FAIRBANKS	ALASKA	99709	479-3703
BAKER	ALLAN S. BAKER, D.D.	1324 - 7TH STREET	SNOHOMISH	WA	98290	206 652-6221
BALDWIN	PHIL BALDWIN	P.O. BOX 563	SNOHOMISH	WA	98290	206 334-5569
BALLARD-PAUL	SHELA BALLARD ORNAMENTAL	1510 N.W. BALLARD WAY	SEATTLE	WA	98007	206 782-3343
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BAY	IKE BAY	RT 1 BOX 909	HILLSBORO	OR	97123	503 645-2790
BRANDON, DAVID	DAVID BRANDON	591 PORTER HILL RD.	STEVENSVILLE,	MT	59870	406 777-3507
BROWN, ALBERT	ALBERT BROWN	22738 S.E. 22ND PL.	ISSAQUAH	WA	98027	206 391-6479
BROWN, CURTIS	CURTIS BROWN	92184 SHOREWATER LN	CHESHIRE	OREGON	97419	503 998-3951
BURKS	JOHN BURKS	P.O. BOX 895	BEND	OREGON	97709	503 388-7640
CALDWELL	CLYDE CALDWELL	31012 - 172ND S.E.	AUBURN	WA	98002	206 631-1856
CARR	CLAYTON CARR	RT. 2 BOX 2911	KENNEWICK	WA	99337	509 586-9278
CARRELL	BILL CARRELL	28229 S.E. 204TH	MAPLE VALLEY	WA	98038	206 432-0503
CARSON	TERRY CARSON	36914 MERIDIAN E.	EATONVILLE	WA	98328	--
CASEY	PAUL R. CASEY	214 FIRST AVE. SO	SEATTLE	WA	98104	206-623-4085
CASTLE	JOHN CASTLE	START ROUTE 3 BOX 16	LYLE	WA	98635	--
CAWTHORNE	CHRISTOPHER A. CAWT	BOX 604	WRANGELL	AK	99929	--
CHAPMAN	GENE CHAPMAN	27449 BAYWOOD DR. N.E.	KINGSTON	WA	98346	206 297-2495
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COWAN	EDGAR COWAN	648 GREEN TREE LOOP	GRANTS PASS	OREGON	97527	503 476-9478
CROWDER	BOB CROWDER	BOX 1374	THOMPSON FALLS	MT	59873	406 827-4754
CULBERSON	JERRY CULBERSON	EAST 220 CRONQUIST	ALLYN	WA	98524	206 275-6769
DARRIG	MICHAEL DARRIG	3516 N.E. 44TH ST.	VANCOUVER	WA	98661	206 693-2354
DAVIS	TERRY DAVIS	BOX 111	SUMPTER	OREGON	97877	503 894-2307
DAY	MONTY DAY	RT. 2 BOX 290	COLVILLE	WA	99114	509 732-4515
DEPEW	JAMIE DEPEW	P.O. BOX 147	WAUNA	WA	98395	206 851-3037
DONAHOE	KEVIN DONAHOE	1020 LIBERTY ST.	BELLINGHAM	WA	98225	734-4145
DRUMMOND	GORDON DRUMMOND	RT. 1 BOX 65B	COVE	OREGON	97824	--
DUNCAN	DENNIS G. DUNCAN	4680 ALDER	WEST LINN	OREGON	97068	503 657-9493
DYCUS	JOHN J. DYCUS	15026 S.E. 309TH ST.	KENT	WA	98042	206 631-2203
EBERT	HARRY F. EBERT	RT. 5 BOX 1056	CONROE	TX	77304	409 588-2191
EDDY	HUGH EDDY	211 E. OAK STREET	CALDWELL	IDAHO	83605	208 459-0536
EISENBEISZ	LENN EISENBEISZ	8421 GOLDWAY	EVERETT	WA	98203	337-3787
ELLIOTT	JOE ELLIOTT	1926 S.W. 25TH	REDMOND	OR	97756	503 548-8895
FACKLER	DICK FACKLER	2727 UTTER ST.	BELLINGHAM	WA	98225	206 733-0972

FAHRENWALD	GILL FAHRENWALD	P.O. BOX 2323	OLYMPIA	WA	98507	206 754-9697
FALK	MIKE FALK	5305 - 99TH AVE. N.E.	LAKE STEVENS	WA	98258	206 334-2169
FEATHERSTONE	DAVID FEATHERSTONE	RT. 1 BOX 990	KENAI	AK	99611	907 776-5547
FOLTZ	JOHN FOLTZ	4889 BANNER RD. S.E.	PORT ORCHARD	WA	98366	206 871-0278
FOX	WENDELL FOX	4080 S. 39TH	SPRINGFIELD	OR	97478	503 747-2126
FRANCO	WARREN DEAN FRANCO	16980 S. HOLCOMB	OREGON CITY	OR	97045	503 631-7566
FREEDMAN	J. CARL FREEDMAN	908 HANA HWY	HAIKU	HAWAII	96708	808 572-6729
GANTON	JOHN GANTON	3145 LIVESAY	RR3 VICTORIA BC	CANADA	U8X 3X1	---
GARRETT	JIM GARRETT	1101 DAKOTA S.W.	SEATTLE	WA	98106	206 935-4035
GIDDINGS	RAY GIDDINGS	5906 W. CLEARWATER	KENNEWICK	WA	99336	783-0784
GINDER	RON GINDER	RT 2 BOX 2865	KENNEWICK	WA	99337	509 582-2684
GIRARD	A.J. GIRARD	P.O. BOX 355	SCOBAY	MT	59263	---
GODDARD	WAYNE GODDARD	473 DURHAM AVE.	EUGENE	ORE	97404	---
GODFREY	BOB GODFREY	830 PINE ST.	SNOHOMISH	WA	98290	206 568-7547
GOSSETT	STEVE GOSSETT	RT. 3 BOX 260	GASTON	OR	97119	503 985-7167
GRAHAM	TOM GRAHAM	7545 - 45TH N.E.	SEATTLE	WA	98115	206 523-5334
GRAMMOND	DON W. GRAMMOND	P.O. BOX 770	BLAINE	WA	98230	206 332-5608
GRAY	THOMAS J. GRAY	27583 LORANE ORCHARD RD.	LORANE	OR	97451	503 942-3755
GREEN	MICHAEL R. GREEN	1522 POST ALLEY #206	SEATTLE	WA	98101	206 682-7289
HAIGHT	DON HAIGHT	RT 1 BOX 203	HALFWAY	OR	97834	---
HALL	DAN HALL	P.O. BOX 2552	PORT ANGELES	WA	98362	206 457-4890
HAMPSON	STEVE HAMPSON	17624 SCHALITWAY	LAKE OSWEGO	OR	97035	503 636-6966
HATMAKER	JAMES H. HATMAKER	P.O. BOX 2495 ?	BREMERTON	WA	98310	---
HEDGLIN	LLOYD HEDGLIN	3312 COAL CREEK RD.	LONGVIEW	WA	98632	425-4343
HEDGLIN, GREG	GREG HEDGLIN	820 BELL	TAFT	CA	93268	805 765-5767
HENDERSON	JERRY HENDERSON	36050 PITTSBURG RD. #2	ST. HELENS	OR	98051	503 397-4537
HENSE	DAVID HENSE	2027 N.E. 135TH PL	SEATTLE	WA	98125	206 363-0374
HERSON	NAHUM G. HERSON	3011 INNIS STREET	BOISE	ID	83703	208 345-9163
HNATOVIC	FRANK HNATOVIC	2330 LORELEI LANE N.W.	BREMERTON	WA	98312	206 873-4984
HOEM	EDWARD HOEM	1480 BRUSH COLLEGE RD. N.W.	SALEM	OR	97304	503 364-0858
HOLBY	JEFF HOLBY	22929 UNION HILL RD.	REDMOND	WA	98052	868-3192
HORNER	ROGER HORNER	1037 N.E. 187TH	SEATTLE	WA	98155	206 361-8458
HU	MARY LEE HU	SCHOOL OF ART DM-10	UNIVERSITY OF WA, SEATTLE, WA	98195	206 938-2794	503 689-8362
HUEY	STEVE HUEY	27645 SNYDER RD. #38	JUNCTION CITY	OR	97408	206 385-5272
JAQUA	RUSSELL JAQUA	1119 BLAINE	PORT TOWNSEND	WA	98368	206 467-2422
JARGHER	MALCOLM JARGHER	BOX 351	DUFUR	OR	97021	503 467-2422
JOHNSON	ROBERT C. JOHNSON	4617 FOWLER AVE.	EVERETT	WA	98203	206 252-0598
JOHNSON, ALAN	ALAN D. JOHNSON	P.O. BOX 403	SEAHURST	WA	98062	206 246-0660
JOYCE	TOM JOYCE	RT 10, BOX 92A	SANTE FE	NEW MEXICO	87501	---
KARG	AL KARG	6632 - 147TH CT. N.E.	REDMOND	WA	98052	206 883-8446
KAULITZ	DON KAULITZ	3407 N.E. 169TH AVE.	VANCOUVER	WA	98682	206 256-9600
KEENE	EDMUND KEENE	1822 S.W. MADISON ST.	PORTLAND	OR	97205	244-4410

KOCH	PETER KOCH	BOX 232	LOWELL	OR	97452	503 937-3744
KREBS	LISA KREBS	3913 DENSMORE AVE. NORTH	SEATTLE	WA	98103	206 632-0631
KUEHNE	DONALD KUEHNE	1349 S. 250TH	DES MOINES	WA	98198	---
KUDSK	GERALD KUDSK	8508 VALLEY VIEW RD.	CUSTER	WA	98240	206 366-5111
LAFAYETTE	RAY LAFAYETTE	1232-151ST AVE. S.E.	BELLEVUE	WA	98007	206 641-4516
LATHROP	THOMAS D. LATHROP	P.O. BOX 434	WASHOUGAL	WA	98671	206 835-5805
LAYMAN	DONIPHAN C. LAYMAN	3443 N.E. 33RD PL	PORTLAND	OR	97212	503 282-9245
LINN	MIKE LINN	114-240TH S.E.	BOTHELL	WA	98021	486-5559
LOEBS	CURTIS A. LOEBS	3590 WESTMINSTER DR. S.E.	PORT ORCHARD	WA	98366	871-6790
LUM	BOB LUM	901 TRAVIS AVE.	EUGENE	OR	97404	503 600-2737
MARSH	DR. IAN MARSH	4015 SOUND VIEW DR. W.	TACOMA	WA	98466	206 565-2444
MARTINEZ	BILL MARTINEZ	3827 E. SMITH RD.	BELLINGHAM	WA	98226	---
MCCEE	STEVE MCCEE	1609-3RD AVE. N.E	SEATTLE	WA	98109	206 523-4676
METZ	BRUCE D. METZ	2601 FERNDALE AVE. N.E.	RENTON	WA	98056	206 655-4243
MILLER	DAVID MILLER	BOX 62	WASCO	OR	97065	503 442-5401
MOGER	MIKE MOGER	1650 POTTERY AVE.	PORT ORCHARD	WA	98366	876-8095
MOONEY	PHIL MOONEY	2210 N.E. 10TH STREET	RENTON	WA	98056	206 255-9599
MORGAN	ROD L. MORGAN	950 SLATER RD.	BELLINGHAM	WA	98226	206 384-5838
MORRELL	BILL MORRELL	P.O. BOX 56	ASHFORD	WA	98304	206 569-2684
MORRISON	JEFF MORRISON	RT. 1 BOX 176	CORNELIUS	OR	97113	503 647-2925
MULLIN	STEVE MULLIN	500 W. CENTER VALLEY RD.	SANDPOINT	ID	83864	263-7492
MUNRO	GEORGE MUNRO	BOX 123, RR 2, TUGWELL RD	SOOKE, B.C..	CANADA	V05 1N0	642-5093
NEAL,	DAVID E. NEAL	1425 N. PROSPECT	TACOMA	WA	98406	206 752-5888
NELSON, DARRYL	DARRYL NELSON	36914 MERIDIAN E.	EATONVILLE	WA	98328	---
NELSON, HARLAN	HARLAN NELSON	1060 S.E. 8TH	HILLSBORO	OR	97123	503 648-2925
NIKOLAI	BILL NIKOLAI	18482 - 89B AVE.	SURREY	B.C., CANA	V3T SJ4	---
NYSTROM	T.M. NYSTROM	108 TAYLOR SANDS DRIVE	LONGVIEW	WA	98632	423-7632
PARNELL	TOMMIE D. PARNEL	212 S. CALLOW AVE.	BREMERTON	WA	98312	---
PARRISH	BRADFORD J. PARRISH	19860 S. WHITE LANE	OREGON CITY	OR	97045	503 656-9466
PETERSON	NORMAN M. PETERSON	3402 PARK AVE. N.	RENTON	WA	98056	206 255-3102
PHILLIPS	JOHN PHILLIPS	824 KITSAP ST.	PORT ORCHARD	WA	98366	206 876-5163
PLOWMAN	MICHAEL PLOWMAN	1805 S.E. 30TH AVE.	PORTLAND	OR	97214	503 235-5710
POLK	THEODORE POLK	24415 - 64TH AVE. S. SP #1	KENT	WA	98032	854-0311
POLOCZ	JOSEPH POLOCZ	8306-A FIFTH AVE. W	EVERETT	WA	98203	206 347-1556
PRIES	JOHN PRIES	1785 SKYLINE BLVD	EUGENE	OR	97403	503 345-8170
PYGOTT	LANCE PYGOTT	30224 - 2ND AVE. S.	FEDERAL WAY	WA	98003	839-4645
RACE	ROBERT RACE	2223 1/2 S.E. 139	PORTLAND	OR	97233	503 253-7334
RICHARDS	TOM D. RICHARDS	23760 S. BEATTIE RD.	OREGON CITY	OR	97045	632-6028
ROBINSON	HARRY ROBINSON	4745 RIVERCREST DR. N.	SALEM	OR	97303	503 393-5439
ROLSTAD	GEORGE ROLSTAD	P.O. BOX 84003	SEATTLE	WA	98124	763-9492
RUDISILL	KENT RUDISILL	2520 S.W. 45TH	CORVALLIS	OR	97333	503 753-2543
RUSH	CARL R. RUSH	RT #1 DRY CREEK	BOISE	IDAHO	83703	208 939-6144

NWBA MEMBERSHIP

Some of the members of NWBA have expressed an interest in just where we all come from. Gene Chapman came up with these figures. There are currently 158 members. By state the membership is broken down as follows:

85 Washington	3 Alaska	2 California
51 Oregon	1 Colorado	4 British Columbia
6 Idaho	1 Texas	1 Hawaii
4 Montana		

Sources

Cumberland General Store

Rt. 3

Crossville, Tennessee 38555

They carry forges, blowers, firepots, anvils, hammers, tongs, swage blocks, leg vises, top and bottom fullers and swages, flatters, handles, round and square punches and just about anything else you can think of.

Fall Creek Farrier Supplies

1460 N. 33rd St.

Springfield, OR 97478

John Turkington Carries everything from shoes and nails to anvils, hammers, tongs, tool steels, books and his own brand of welding flux. Catalog available.

Valley Farrier Supply

21383 South Yoeman Rd.

8-5 weekdays

Beaver Creek, OR

(503)632-4366

9-5 Saturdays

A good source of good, clean coal in Oregon.

\$300. a ton, 80lb. sacks.

Classified Ads

WANTED:

A source of high grade wrought iron for use in making muzzle-loading gun parts. Steve Gossett, Cherry Grove Forge, Rt.3 Box 260, Gaston, OR 97119 (503)985-7167

WANTED:

Afloor mounted tapered mandrel. Wayland Henry (503)234-7265

FOR SALE:

Blacksmith's tools, no junk, enough to set up shop. \$1000. Includes: #40 Champion forge and blower, 150lb. anvil (wrought body, steel face), #4 Champion post drill, cone mandrel, Sampson hand shear (3" throat), 5" post vise, rod shear, 2 cold-cut chisels, 1 hot-cut chisel, several punches, 2 bottom sets, 2 rivet sets, flatter, 10 sets of tongs, nail trimmer. Call Melvin McLane (509)269-428 (25 miles south west of Othello, WA)

FOR SALE:

Antique, belt-driven radial drill press, made by Cincinnati-Bickford. #4 MT spindle, 11" column, 39" arm. Universal table. Everything is there, but it needs some T.L.C. \$650. or best offer, I can load it for you. Call Tom Graham at (206) 523-5334 7545 S.E. 45th Seattle, WA 98115.



Northwest Blacksmith's Association
P.O. Box 81041 • Seattle, WA 98108

MEMBERSHIP APPLICATION: NEW () RENEWAL ()

Annual dues are \$12.00. Please make check payable to NWBA.

NAME: _____ DATE: _____

FIRM NAME (optional): _____

ADDRESS: _____ TELEPHONE: (____) _____

CITY: _____ STATE: _____ ZIP: _____

JERRY CULBERSON
EAST 220 CRONQUIST
ALLYN
WA 98524



Northwest Blacksmith's Association
P.O. Box 8191
Seattle, WA 98198



PETER ROSS WEEKEND

MARCH 12-13, 1988

BAY VIEW FARM

How to get there: Bay View Farm is 16 miles west of Portland. Go out Sunset Highway (#26-West) to Helvetia Road. Travel north on Helvetia to Phillips Road. Turn west on Phillips and Bay View Farm is just past the intercection of Phillips and Valley Vista. Yellow anvil signs will clearly mark the way once you turn off the Sunset Highway (#26-West).

Calendar

NAHUM HERSOM REPOUSSE WORKSHOP

MAY

1988 ABANA CONFERENCE

JUNE 16-18