

# *The Anvil's Horn*

A Publication of: The Arizona Artist Blacksmith Association

Issue No. 144

April/May 2010



Helmet by Eric Thing. The helmet is one piece with no welding.  
The visor is also one piece

# President's Message:

Hey there;

We've had a busy couple of months lately. First of all there was the SWABA conference in Las Cruces N.M. Pep Gomez did one of the most informative demonstrations on Damascus, he started at the basics of pattern welded steel all the way to powdered Damascus. He also made 16 billets and if he did or did not forge them, they all went in Iron in the Hat. And then our own Peter Sevin did his demo on basic shop practices. If you did not take home something from Peter's demo you must have been sleeping. He brought along tips from a lot of the icons of blacksmithing that he has had the pleasure of working with or hosting in his shop, including Francis Whittaker and Jesse Hawley. Next year AABA has the pleasure of hosting the SWABA Conference, so if you want to help make this a success contact one of the Board members to see what you can do!

Then we had a our Open forge out at Saguaro Ranch to show off our skills for Agri-days, we must have had 500 plus people come see us and ask questions about smithing as well as about AABA.

And then this past weekend we were in Oracle to see Michael Sobrado and the trials and tribulations of reengineering his style of Bells to fit his tooling, Great Job Michael! Then Sat afternoon there were a lot of people trying their hand at making bells or parts for their bells. Sunday, John Kruger put on an awesome demo on how to use an oxy acetylene torch, and everyone had plenty of time to have John show us how to do it correctly. If that wasn't enough we had one more demo by an encaustic artist. Great job putting this weekend together Mary Ann. And to Ira, thanks for hosting the BBQ at your place and putting up with us Sat night!! ☺

Next Demo will be at Buckskin Ranch just a bit outside Wilcox, this promises to be a great weekend. Art Jones will be forging on Fred's Nazel on Friday. Lorelei Simms will be doing Botanical forms on Saturday and Sunday. Fred is going to show us some anchoring techniques he has been using throughout the years. Saturday night will be a great dinner catered by Fred's neighbor. And I'm sure Art will have a few video's of his day's working the BIG forging hammers.

And then don't forget about the ABANA Conference in Memphis in June, I'm sure it will be an event not to miss.

Remember;  
Get it hot, hit it hard!

GRIZZ

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## April Demo: April 23, 24, and 25

### Demonstrator: Lorelei Simms

At Fred Borchardt's Buckskin Ranch near Wilcox.

Demonstrations will start at 9:00 on Saturday, April 24, but you're welcome to come on Friday so you won't miss anything Saturday am.

"I will be demonstrating a variety of techniques that I have developed, borrowed, or outright stolen:) over the past fifteen years of creating botanical forms in iron! It will be a concentrated workshop that includes roses, magnolias, dogwoods, grapes, tendrils, various bark textures and with time permitting on Sunday, a pipe vase and stand."

Lorelei is the author of The Backyard Blacksmith.

Art Jones and Fred will share some of their vast knowledge also.

Camping suggested!

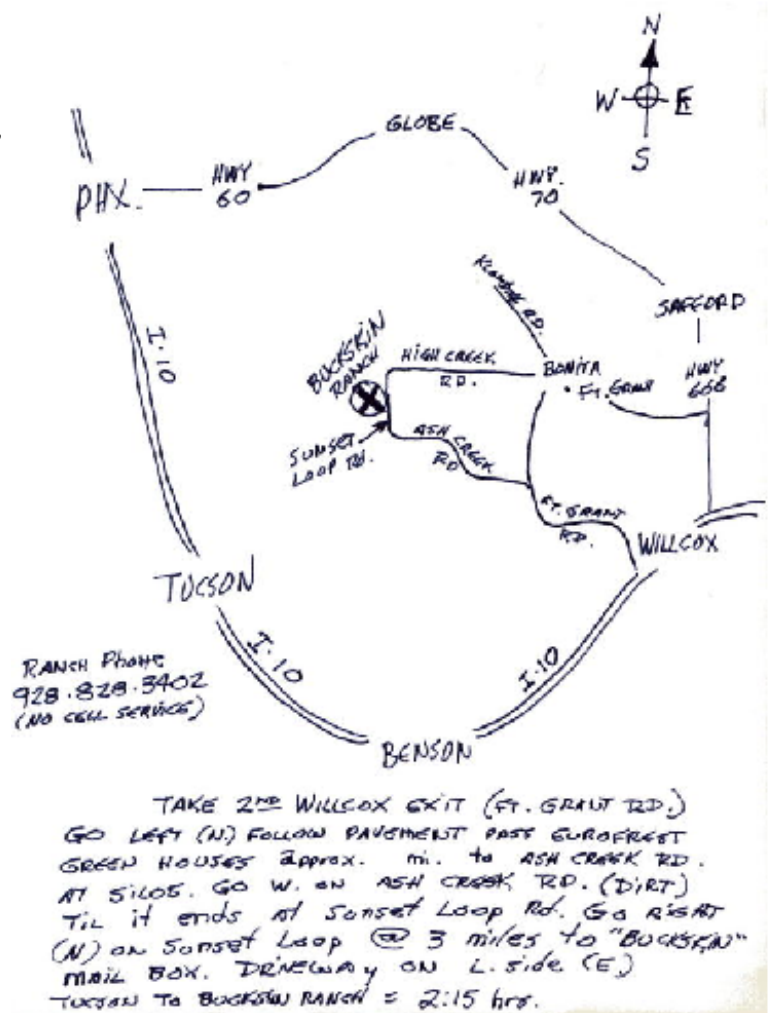
Accommodations are available in Wilcox (it takes about an hour to get there from the Ranch).

- Lunch on Saturday is on your own
- Fred's neighbor will be catering dinner on Saturday: \$15.00 a head, BBQ beef, coleslaw, potato salad, beans, ice tea/coffee, and apple cobbler.
- Grizz is going to make Biscuits and gravy for breakfast Sunday
- Fred promised more great videos (Blacksmith related, of course) on Friday and Saturday evenings.

Don't forget to bring something for Iron In The Hat and Show and Tell.

### Directions to Buckskin Ranch

*"Where all the girls are pretty and all the men know how to fix stuff!"*



# March Demo Report: Oracle

by Mary Ann LaRoche

Wow, what a great weekend! The weather was a bit windy, and cool, but the atmosphere was spectacular, and the demos were informative and interesting. On Saturday the group all gathered at Triangle L Ranch in Oracle to watch and learn from Michael Sobrado as he demonstrated how he makes bells. It was interesting to learn how each bell had its own individual ring tone. He makes them pretty much the same, but, regardless of what he does, when he sets up at shows people will stand there and begin to ring each one of the bells, listening to its unique sound, and they begin to narrow down their choice to a distinctive sound that suits them.

His demo was very calculated, as he provided lots of how-to's and what not to do. He had already made main parts for the house or body of the bell, and showed us how he used tooling to form the shell on the powerhammer, and was quick to show the mishaps of jigs gone bad, and where there weak spots were on the power hammer.

While each bell shape may have been the same, it was in the handle that individuality and uniqueness was where the artist could create his/her individual style. The trick to the bells were in the clapper piece, for one piece was needed to be long enough to be the clapper and the handle....that was fed thru the hole on the top of the bell. The clapper needed to be long enough to wrap onto the clapper about 1 1/2 " and pull thru the bell. For sound it was very important that the stem didn't touch the inside of the



bell, for it would deaden the sound.

The best part of the fun was he had enough parts and we had enough stations that the crowd was able to try out the techniques learned and forge out their own parts and leave with a finished bell.

On Sunday we had a large crowd that had either stayed in town overnight, at the ranch or at Iras.....

John Kruger did an excellent job at teaching the crowd about the right and wrong way to use the oxy acetylene torches. Everyone had lots of questions and John went over everything in such a well defined format. The group was very interested and John was a great teacher.



He reminded us that for the rosebud to make large stuff hot one needs quite a bit of heat. You should run your oxygen at 25-30 lbs, and your acetylene at 8-10 lbs. It was explained that in order to get a good cut from the torch, you should preheat your metal, and you should pre-decide where your cut is going to be, and go before it, with the torch and do a practice cut, this allows you to get the right angle determined, and it gets the area hot, allowing for a better and cleaner cut on the area you want to work. Also, if on the first pass you have trouble, just remember, that slag you created doesn't burn.

As for filler rod, the rod you choose needs to be the thickness of the metal you weld. Big gaps can be filled, and to do this, one should use heavier wire, ie: #9 wire is 3/16 diameter, so there is enough mass to cool off your puddle and drops more globs into the metal. You want to keep feed moving and don't let puddle get away from you.

Another great tip was to put a bubble on your torch with mastic and check this bubble out to make sure you are level with the metal you are about to cut, when holding the torch. It is important to shim yourself to be as high as the material you are about to cut.

John had a very attentive audience, and they asked all kinds of questions. Afterwards, everyone in the group, had John personally show them how to hold the torch, and try several passes at cutting metal.

The crowd stayed even longer to watch a local artist to the Tucson area, who showed our group how to do wax applications, called encaustic art. The group had the opportunity to learn a new media and learn how to use this technique involving metal as a source. Again, lots of questions were asked. Our demonstrator/artist, Sherrie Posternak, was quick to give examples of how metal artists could render this technique with our work.

What a weekend! Lots of hands on, ideas, suggestions, questions, camaraderie and good times. So, everyone, lets gear up and get ready for the next weekend of fun in April at Fred's.....see you there.



## Gallery



*Rodger LaBrash brought this 30" (+-) tall dragon. and the Stag.*



*Ira brought the Nest, forged from found objects, failed forging exercises, and bolts .*





*This is a gift is for my Father-in-law, an avid fly fisherman. We visit them every summer near Glacier National Park, Montana. The Great Northern Railway runs right through there, which is where the "hook" came from, it's a forged railroad spike. It's the second hot hole I've ever punched in steel. I got lots of practice hammering to stretch it out over the anvil..... The wings are a single piece of 1x 1/2" that I did at Grizzly Iron, fullered*

*and then flattened with a cross peen, with a fortuitous red patina that formed on the front wing. I wrapped it around hot and MIG welded to the spike. The copper is lightly heat treated #10 copper grounding wire wrapped and then soldered on the backside. Not a bad trailer hitch plug! Colby Rampley*



*Mike Cooper donated this huge forge that Wally Warnke outbid all of you for at last year's auction.. "Since you had a good look at this old forge in its original condition, I thought you might be interested in seeing the cleaned up version. Here's a look at the new fire pot (from 1/2 in plate) a new blower and the first fire. It works pretty nice, could build a big fire in there if needed." Wally*

# My Bull Riding Career Is Officially Over

By Barry Denton *Thanks to Barry Denton and the America's Bridle and Bit Magazine for Permission to reprint this article in The Anvil's Horn*

It happened just about two weeks prior to my writing this piece. I decided that after breaking my leg at the age of 50 it was time to hang up my bull rope. Remember Freckles Brown riding the bull that had never been rode at the National Finals Rodeo in Oklahoma City at age 46? Did you see Billy Etbauer at age 46 win two rounds of saddle bronc riding at the National Finals Rodeo in Las Vegas, Nevada this year? Yes, and according to my sawbones it was a bad break this time. To keep it concise, a spiral fracture to the tibia and fibula in my right leg. They had to insert a titanium rod inside my right leg and screw it together. The old saw bones said if I get well, I shouldn't get back on another bull. Of course, I never listened to him before, but at age 50 you start looking at things a little differently. The breaks and repairs start adding up. I'm sure I know exactly how Evel Knievel felt every morning. I hate to admit age has anything to do with it, but needing bifocals to tighten the bull rope around your riding hand is not a good sign.

Naturally I was on the far south end of the ranch, by myself, about 2 miles from headquarters, when this wreck took place. This is not unusual for me to be out there by myself as that's the way I like it. Because we live between two large mountains that are east and west there is no cell phone service, which most of the time I like. However, after I came down and hit the ground I kind of wished I had some cell service. It happened so fast that I did not have time to put my hands out to break the fall. It was kind of like getting shot, it dropped me that quick. So there I am on the ground rather stunned that it could get me off so quick. I gathered my wits about me and decided to get up. Just about that time I noticed that my foot was pointing the opposite direction from my knee. Having been a boy scout in my young life I was very familiar with first aid and I had also been to hundreds of horse wrecks and even caused a few. Right away I gingerly straightened my broken leg in the right direction and attempted to find something to splint it with. There wasn't much around on that hard dirt so I attempted to crawl out to the desert. That's not easy to do when you are not completely attached. The lucky part is that this happened about 4:00 in the afternoon and I'm always home for supper at 5:00. When you don't show up for supper on a ranch, people think it's serious and come looking for you. Around 5:30 my wife showed up to find me lying on the side of the road. Of course I was glad to see her as the sun had set and it was getting quite chilly. She covered me up with some coats and went home to call the ambulance. After about another 30 minutes I could hear an ambulance coming and then it stopped. Of course they couldn't get the ambulance back in the rough country where I was so they came in a pickup. They splinted my leg and strapped me to a "board" and put me in the pickup with my head hanging out the back which I thought was

pretty dumb. What if I slid out on those steep hills? I guess they figured my head to be the hardest part. Needless to say, I didn't slide out, but it was close a couple of times. Finally we got back to the ambulance. My wife rode up front with the driver and I of course was riding laying down in the back. Now the road to our ranch is pretty rough and windy. There was a rather portly ambulance attendant riding in the back with me. Pretty soon she was on top of me crushing my ribs and knocking the wind out of me as we raced up the rough windy road. I finally got to the emergency room about 3 1/2 hours after the incident. I wasn't sure what to tell the doctor to check first, my broken leg or ribs.

They operated on me the next morning and put a titanium rod in my leg. When you looked at the x-rays you could see the "DEWALT" drill they put the screws in with. Highly technical hospital equipment that they got at the local, friendly, hardware store. If I remember correctly they put me on a couple of sawhorses for the operating table. It just dawned on me why I keep having dreams of "Tim the Tool Man Taylor and Al Borlund. After the operation I stayed in the hospital a couple of days. Boy, you certainly don't need to go to a hospital to get a rest. Those nurses are always poking and prodding you at all hours. Now I know what a steer in a feedlot feels like. So here I am, tall, handsome, well dressed, and I always got my cowboy hat cocked just right! Naturally they took all that stuff away from me in the hospital and I had to lay there in one of those gowns that let your backsides hang out. Not a good way to be suave and debonair. On the third day they told me to "get out". Of course, getting out of a hospital is just as hard as getting in. I finally got my clothes back, but had to be wheeled out in a wheel chair. Now the best part about that was being wheeled out by a cute young Italian nurse named Anna that said I was her favorite patient. I tried hard to bring Anna home with me, but my wife said I already had enough pets.

Now I'm just sitting here for many weeks trying to heal up. I called Tuff Hedeman and told him I wouldn't be in the PBR next season. Needless to say, he was crushed at the idea of losing his 50 yr. old phenomenon. Nope, I guess I'm going to put my bull ropes on Ebay along with my chaps. Hey, anyone want to buy some used bullrider underwear? Oh now don't worry, I'm still going to continue the "old man" sport of "working cowhorse" just as soon as I'm healed. However, I'm so disappointed over my future in the bull riding. Now mind you I haven't graced the back of a bull since I was 20, but that doesn't mean I didn't intend to go back at it as soon as I got the time.

It's hard to believe my bull riding career ended on a step ladder.



# Dividing Circles

by Dan Jennings

Would you like to be able to divide a circle into an equal number of spaces? For instance, maybe you'd like to lay out a 5 pedal rose blank that is 3 inches in diameter. *Chordal Values* are the easy way to get it done.

From the chart below select 5 from the divisions column and multiply the number in the Length of Cord column times the diameter of the circle.

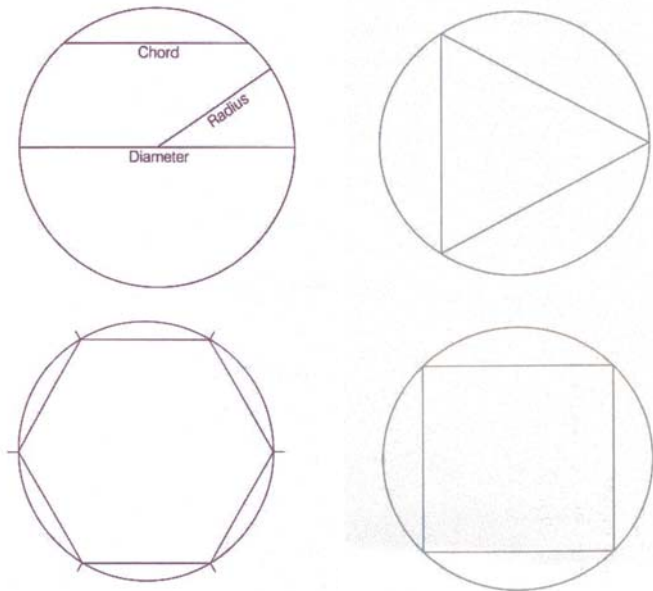
$$.5878 \times 3 = 1.7634$$

Set your dividers to 1.7634 and walk them around the perimeter of the circle.

What? Your tape measure only reads fractions? One cheap solution is to get a pair of digital calipers. I have a few cheap ones—that cost around \$20 from places like Harbor Freight and they work great. Of coarse, you can spend several hundred and get more expensive ones—I've got those, too.

Need more than 32 divisions? Machinery's Handbook lists up to 194 divisions.

Ref: Machinery's Handbook and Paul Quyle, in the June 2003 California Blacksmith.



## Chordal Values

Divisions	Length of Cord	Divisions	Length of Cord	Divisions	Length of Cord
3	.8660	13	.2393	23	.1362
4	.7071	14	.2225	24	.1305
5	.5878	15	.2079	25	.1253
6	.5000	16	.1951	26	.1205
7	.4339	17	.1838	27	.1161
8	.3827	18	.1736	28	.1120
9	.3420	19	.1646	29	.1081
10	.3090	20	.1564	30	.1045
11	.2817	21	.1490	31	.1012
12	.2588	22	.1423	32	.0980

## CALENDAR 2010

April 3	Open Forge	Grizzly Iron	Phoenix
April 23, 24, 25	Demo Lorelei Simms	Fred Borchardt's Ranch	Wilcox
May 15	BOD Meeting (2:00 PM)	Tag's	Coolidge
June 2-5	ABANA Conference	Agricenter International	Memphis, TN
July 17	Demo	Pioneer History Museum	Flagstaff
September 17	BOD Meeting (6:30 PM)	Bill Morris	Camp Verde
September 18	Demo	Bill Morris	Camp Verde
November 13	Demo	Ron Kinyon's Falcon Forge	Mesa

### April 10

**Jamborama.** Grizz needs 8 smiths to demonstrate and teach the metalworking merit badge metal for the Boy Scout Jamborama. The event will be at the Tumbleweed Park in Chandler on April 10 from 10 am to 9 pm. If you would like to help out Contact Grizz . 602-716-9660 or email: [grizz@grizzlyiron.com](mailto:grizz@grizzlyiron.com)

### June 2-5

#### **ABANA Conference Memphis, TN**

Workshops, demonstrations, vendors, tailgating and fellowship with smiths from around the world.

[www.ABANA.org](http://www.ABANA.org) for all the information

## Welcome New Members

Ben Smith	Mike Wilke
Brian L. Cummings	Eric Thing
Caleb Kullman	

### April/May The Anvil's Horn

This issue of *The Anvil's Horn* is a month early to accommodate the April 24 demo. Lorelei is a very popular demonstrator and a busy blacksmith so we had to work around her schedule.

The deadline for this issue was moved on a very short notice. If you are working on an article for this issue I apologize for not getting the word out. Don't worry, we'll use your article in the next issue.

There will be no May demo. The next demo will be July 17 at the Pioneer History Museum in Flagstaff. Expect your next *The Anvil's Horn* the first part of July

See you in Wilcox and Flag.

**Deadline: June 3** for the July issue of the Anvil's Horn. Earlier would be greatly appreciated. Articles, photos, notices, and ads can be emailed to: [Danshammer@cox.net](mailto:Danshammer@cox.net) or mailed to AABA 2522 W. Loughlin Dr. Chandler, AZ 85224

### The AH Needs your Photos, Articles and Shop Tips

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

[Danshammer@cox.net](mailto:Danshammer@cox.net)

# AABA Website: [AZ-blacksmiths.org](http://AZ-blacksmiths.org)

**2010 Dues were Due January 1**  
**Thanks for paying up!**

## AABA Publications

Most of the Best Tips Project Ideas Patterns from ABANA Chapter Newsletter, aka The Tips Book, is 291 pages of all those things organized so you can find them. It is bound in a 3-ring binder so you can add info as you get it. Available at demos for \$25.

The Blacksmith and His Art by Jess Hawley. Many feel this is still the best basic blacksmithing book available. Plus it's got pictures and a bit of history. Available at demos for the wholesale price of \$12, Or from Pieh Tool or Blue Moon Press for \$20.00

The Skills of a Blacksmith Vol.1 Mastering the Fundamentals and The Skills of a Blacksmith Vol.II Mastering the Fundamentals of Leaf-Work by Mark Aspery. These are two of the best how-to Blacksmithing books you can buy.

Mark has put in writing all those things you learned in class and are trying to remember. But he didn't stop there, there is plenty more help to keep you advancing.

The book is available from AABA and can be purchased at demos. Cost is \$55.00

Or you can purchase directly from Mark's website: [Markaspery.net](http://Markaspery.net)

## Pieh Tool Educational Opportunities

### Beginner/Intermediate Blacksmithing Classes with Gordon Williams

Check the website for the summer and fall schedule

\$455 per 30 hour class. All materials and equipment are provided.

Bill Pieh Resource for Metalwork at Pieh Tool in Camp Verde, Arizona.

Contact: 928-554-0700 or [www.piehtoolco.com](http://www.piehtoolco.com)

## Vern Lewis Welding AABA Discount

"Vern Lewis Welding supply, inc. is happy to extend discount pricing to all members of the Arizona Artist Blacksmith Association. Discount applies to all industrial gases, welding supplies, safety equipment, and more. Vern Lewis Welding Supply, Inc has 5 locations: Phoenix, Avondale, Mesa, Wickenburg, and Prescott Valley.

Delivery is available at the low price of \$8.00 per order. For more information on Vern Lewis Welding Supply, Inc, visit us online at: [www.vernlewis.com](http://www.vernlewis.com) or contact Chris Perella @ 602-319-7693"

### AABA New Member and Membership Renewal Form

Name \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Phone \_\_\_\_\_ Email \_\_\_\_\_  
Professional blacksmith \_\_\_\_\_ Hobbyist \_\_\_\_\_ Farrier \_\_\_\_\_ Blades smith \_\_\_\_\_  
Your main blacksmithing interest \_\_\_\_\_  
Occupation or skill \_\_\_\_\_  
Please check one:  
Regular membership (\$30) \_\_\_\_\_  
Family membership (\$35) \_\_\_\_\_

Mail to: Terry Porter  
2310 E. Melrose St.  
Gilbert, AZ 85297

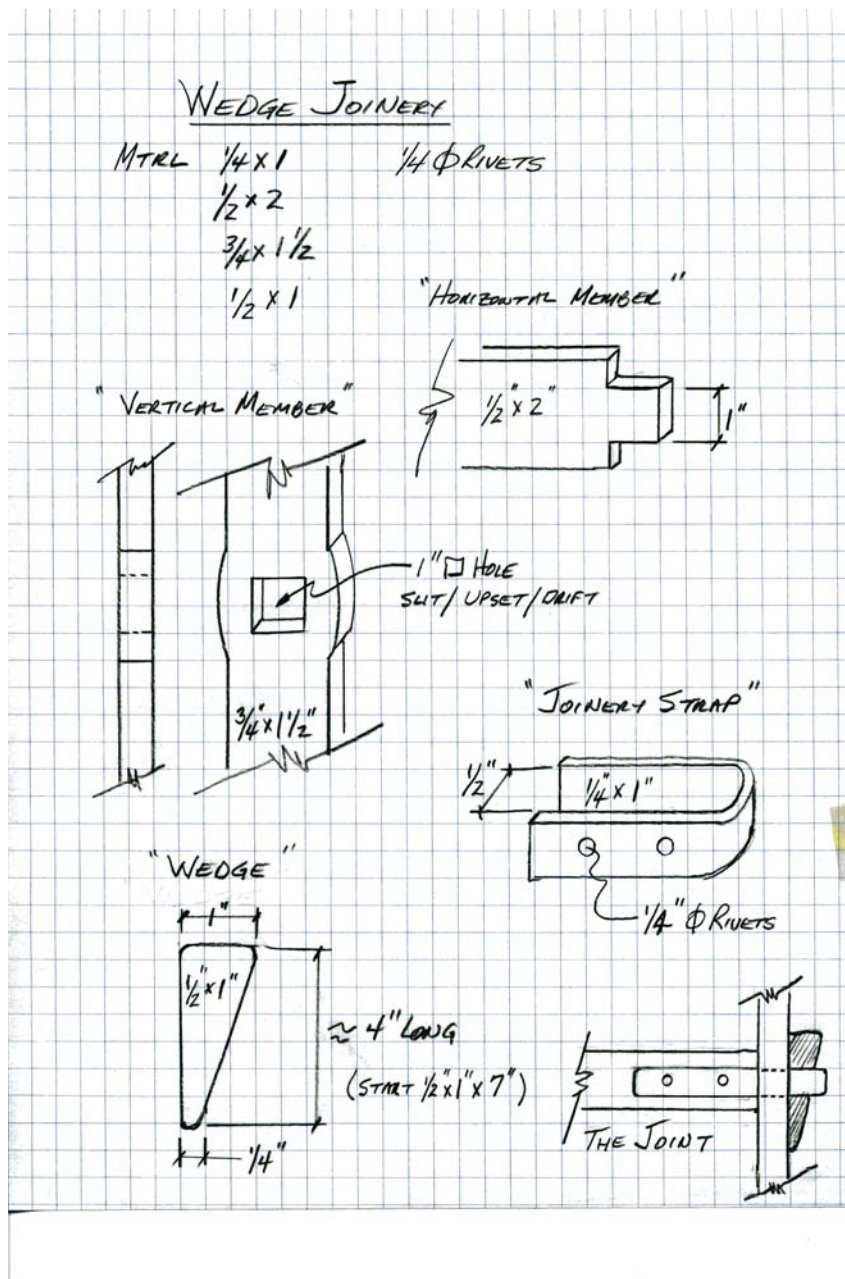
**Make Check Payable to AABA**



# THE WEDGE JOINT

Len Ledet

In January Caleb Cullman conducted a "Innovating with Joinery" class (see March 2010 issue THE ANVIL'S HORN – page 7) at Sahuaro Ranch Park. One of the joints discussed and constructed was a WEDGE Joint. The following illustrates the components required and the material sizes we used during the exercise. The key to understanding the join – the vertical member's square slit and drifted hold must be big enough to allow the horizontal member and the wedge strap to fit thru it. Try it, it was a very good forging exercise.



## Cathi Borthwick

### Scottsdale Art Festival

Long term AABA member Cathi Borthwick – Flagstaff, at the Scottsdale Art Festival displaying her wide variety of forged items. An outstanding display of what the art of Blacksmiths is all about.





# Instant Mobility Kit

by Kay Kofford

About twenty years ago, or so, a wise man\* said that to make a shop work well it really helped to put everything in the shop on wheels or rollers. In the twenty-year interval that sage advice has proven true many times.

Putting wheels or casters under welders, tool carts, tubing benders, belt grinders worktables, and forges, provides flexibility on many levels. Fabricating stands and bases for other items like vices, anvils, sheet metal brakes, drill presses, so they can be moved with a hand truck adds further to that flexibility.

Being able to configure a work area for a specific application or process can make life more simple and the work less frustrating. When space is premium (is it ever not?) some pieces can be crowded together for storage, freeing up workable elbowroom. Cleanup (yes Virginia, some of us occasionally clean up) can also be better accomplished.

What about some of the larger, heavier items? Say, layout tables or platen tables? When it comes to the really big stuff, a 5x5', or 5x10' platen, or a heavy power hammer it is probably going to take nothing short of a forklift, or equipment rollers. I have moved mills, lathes and power hammers using lengths of tubing as rollers, but that doesn't work well for pieces of equipment up on legs or for anything in the dirt.

I have a 30"x 60" Acorn platen and a heavy 36"x 60 layout table with a top that is  $\frac{3}{4}$ " plate. In the previous shop, there was an inside work area and an outside work area, out back, connected by a 30" door. In case you are wondering, a 30" platen will not go through a 30" door. I needed to be able to move the platen occasionally between the two work areas; out the front rollup door and around the side of the shop to the back, or the reverse.

Compounding the problem, there wasn't any concrete alongside the 30" side of the shop, just compacted road-base gravel. This was the answer I came up with to move the platen. It worked so well for me that I later modified the layout table the same way. It's so simple even I could do it; twice.

Using square tubing that was at hand, I chose two sizes of ESW tube that allowed one to slide inside the other; loose because of the internal



metal bead of the weld, but snug enough to keep the two pieces aligned and prevent rotation. Then I went to Harbor Freight and bought a trailer hand dolly and two pneumatic tires, mounted on rims with non-castering brackets. (Hint: when buying any pneumatic tires at HF, pretend you are in the produce isle at the supermarket. Pick through all of them and give each a firm squeeze. If they held pressure on the boat all the way from China, they will give you better service than the ones that didn't.)

The larger tube gets welded across the end legs on both ends of the table/stand. Another short section (6" long  $\pm$ ) is centered perpendicular on top and welded in place. A short, 12"  $\pm$ , length of the smaller tube is welded to each base of the wheel bracket. A longer piece, about 24" long, has a short, 1  $\frac{1}{2}$ " length of 2  $\frac{1}{2}$ " diameter tubing (big enough for the 2" trailer ball on the dolly to slip inside) welded flat to one end. This makes a removable tongue for the dolly to rise up into and lift the table end.

I don't remember how I calculated it to begin with, and don't believe it is really critical, but I think the dolly lifts the legs about 2" off the ground. Once everything is up on the wheels the trailer dolly will stay grounded, supporting its end of the stand. It needs to act as a jack and lift everything high enough that the wheel/tire assemblies will slip in and be clear of the ground. The dolly and tongue is then removed letting the wheel/tire assemblies take the weight on that end.



The dolly and tongue is then taken to the other end, that end is lifted clear of the ground and becomes the steering end.

A floor jack could be used in place of the dolly with the perpendicular tubes and tongue eliminated as well. This works great on concrete, but not on dirt or gravel.

Experience tells me this system will work up to about 1,200 pounds total weight. It may handle a little more, but remember, these are low buck Chinese rubber. When not in use the wheel/tire assemblies can be stored underneath, turned upside down and inserted into the perpendicular tubes. For obvious reasons, this isn't recommended on platen tables where welding, cutting, grinding is done. What I like most is that it is simple; it is easy to use; and it works in the dirt...kind of like me.



*"A floor jack could be used in place of the dolly with the perpendicular tubes and tongue eliminated as well. This works great on concrete, but not on dirt or gravel."*

# The Deaf Wife

A blacksmith feared his wife wasn't hearing as well as she used to and he thought she might need a hearing aid. Not quite sure how to approach her, he called the family doctor to discuss the problem. The doctor told him there is a simple informal test the husband could perform to give the doctor a better idea about her hearing loss.

Here's what you do," said the doctor, "stand about 40 feet away from her, and in a normal conversational speaking tone see if she hears you. If not, go to 30 feet, then 20 feet, and so on until you get a response."

That evening, the wife is in the kitchen cooking dinner, and he was in the den. He says to himself, "I'm about 40 feet away, let's see what happens."

Then in a normal tone he asks, "Honey, what's for dinner?"

No response.

So the blacksmith moves closer to the kitchen, about 30 feet from his wife and repeats, "Honey, what's for dinner?"

Still no response.

Next he moves into the dining room where he is about 20 feet from his wife and asks, "Honey, what's for dinner?" Again he gets no response. So, he walks up to the kitchen door, about 10 feet away. "Honey, what's for dinner?"

Again, there is no response.

So he walks right up behind her. "Honey, what's for dinner?"

"Ralph, for the FIFTH time, CHICKEN!"

Losing hearing is usually a long slow and painless process. Most people don't notice diminished hearing until it is too late and they have trouble understanding speech or have constant "ringing" in their ears.

With this in mind, here are some of the noise levels we encounter in our pursuit of craft. You'll note all of them exceed "very loud" and OSHA

standards prohibit 80 DB in an 8 hour period plus never above 90 DB.

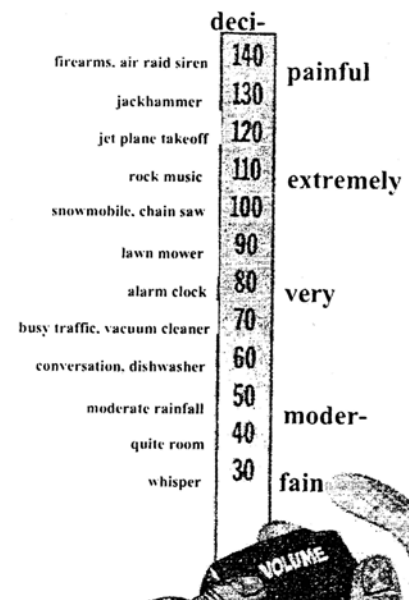
**Now is the time to protect!**

*From New England Blacksmiths, 2009*

Lets look at some of the tools we use everyday ( how loud are they ??)

<u>TOOL</u>	<u>DB</u>	<u>TOOL</u>	<u>DB</u>
3 burner gas forge	85.7	7" hand grinder	99.8
Chop saw	118.2	Hammer drill	102
Skilsaw	112	4" mini grinder	118
88 lb. Pneumatic Power hammer	105.8	Dynafire	88.8
Die grinder	107	Hammer on an Anvil	100.2
Air Chipping gun	108	Shop vac	94
Air nozzle	108	Treadle Hammer	87.6
Needle gun	120.1	Forge blower	82.3

Compiled from The Hot Iron Sparkle, North Carolina and Forge Facts, Rocky Mountain Smiths

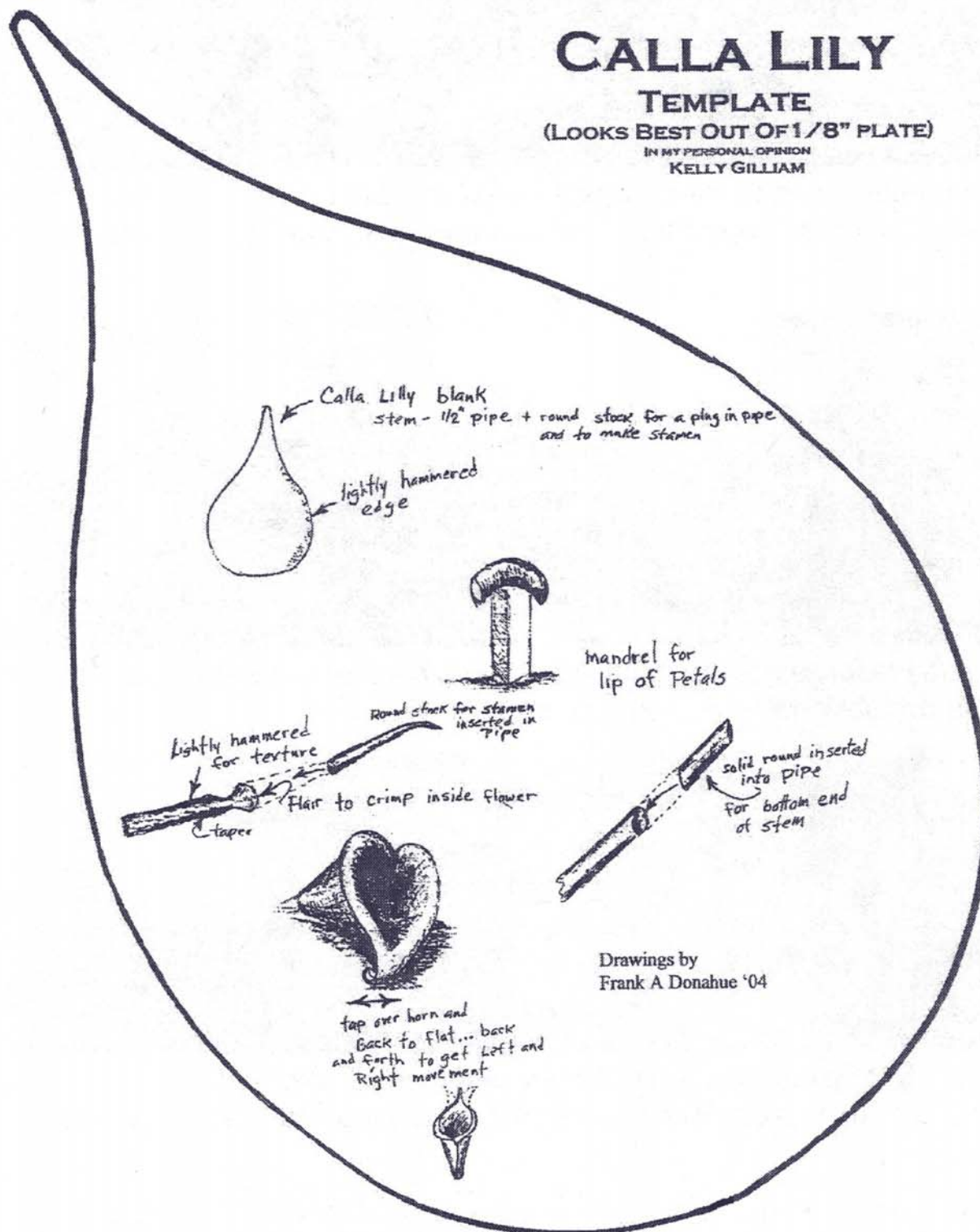


# CALLA LILY

## TEMPLATE

(LOOKS BEST OUT OF 1/8" PLATE)

IN MY PERSONAL OPINION  
KELLY GILLIAM



NRBA News Summer 2004

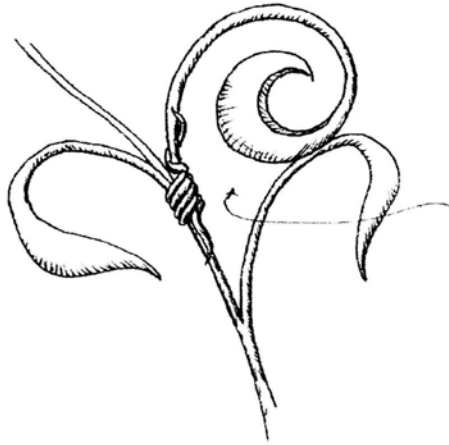


# Walt's Vines

by Walt Hull

Reprinted from the Newsletter of the Blacksmiths Association of Missouri, May-June 2002

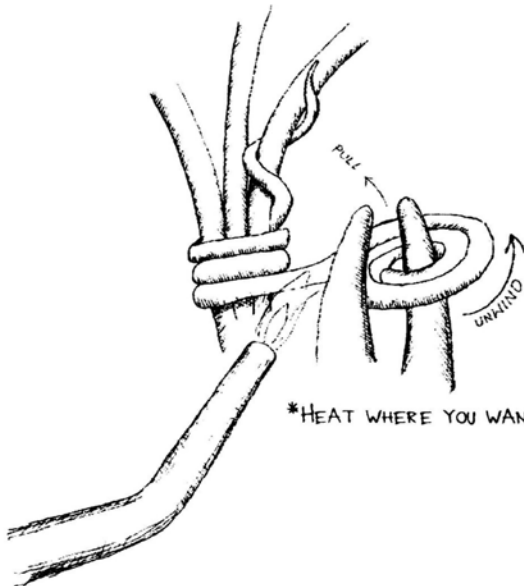
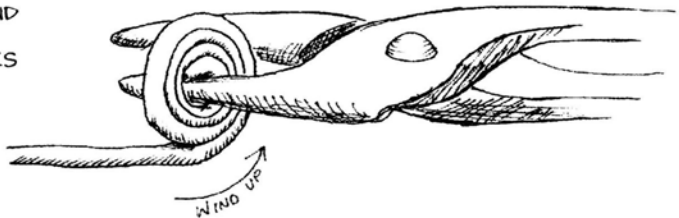
LATELY WE'VE HAD A ROATLOAD OF THIS VINE-TYPE STUFF TO MAKE. SOMETIMES THESE WRAPS CAN BE AWKWARD IN THE SPACE ALLOWED BY THE 4" [RAILING CODE] BALL RULE.



THE PROBLEM:  
A COUPLE OF FEET OF WRAP MATERIAL DOESN'T WANT TO SWING THROUGH THIS HOLE.

HERE'S A WAY TO DO THEM:

TAKE A LONG HEAT ON YOUR WRAP MATERIAL AND WIND IT UP ON SCROLL TONGS. KEEP DOING THIS UNTIL IT'S ALL COILED UP EXCEPT WHAT YOU NEED TO START, OR WIND FROM BOTH ENDS IF YOU WANT TO START IN THE MIDDLE.



UNWIND BACKWARD TO THE COIL, KEEPING PRESSURE AGAINST THE PARENT STOCK, LIKE PUTTING AN ACE BANDAGE ON YOUR ANKLE. FOLLOW WITH THE TORCH.\*

\*HEAT WHERE YOU WANT IT TO BEND ONLY.

Enjoy.  
W

# Classifieds

Classified ads are free to members and can be submitted by email to: [danshammer@cox.net](mailto:danshammer@cox.net)

Blacksmith's Journal, issues # 0 thru #128. 11 Volumes in 3 Journal "D" binders. August 1990 thru September 2001. Absolutely like new. Journal website cost with shipping is almost \$600, and they are out of print on many of these issues. Original, heavy stock printed issues; not current website copies. Make offer, cash or interesting trade.

Power hacksaw with stand, motor and gear reduction included but not hooked up. \$250  
Kay Kofford 480 474-8770

Kinyon Simple Air Hammer pneumatic kits. Includes cylinder, valves, fittings and hose.  
Ron Kinyon 602-568-8276

L Brand Coke For Sale  
\$22 for 50 lb Bag  
S5 Tool Steel for Sale  
1", 1 1/4" and 2" Round Available  
12-14" Lengths. \$3 per pound  
Call 602-716-9660

Shop coal forge w/electric blower w/reostat plus coal. 36" x 28" \$150  
Anvil, 120 lb on banded stump w/tool holder \$400  
Dayton floor drill press \$50  
Champion No. 400 free standing hand forge blower \$100  
Champion electric forge blower \$80  
Ray Brown 480-221-5373

If anyone is interested in a side draft coal forge, but don't have the time to build your own, I would love to build one for you. Parts and labor cost will vary. Call Clark Martinek for details 602 323 4114.

Kerr Long Arm Centrifugal Casting Machine mounted on a barrel with splash guard. 3 crucibles, 4 flasks, extra weights and cradles, tongs. Located in Camp Verde. Selling all for \$350. For pix/info, call Valerie, 928-646-7078.

## Sources

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

[www.rockymountainsmiths.org](http://www.rockymountainsmiths.org)

### Bar U Bar Supply

The source for anvils, post vices, and other new & used blacksmith tools. Barry Denton ph 928-442-3290

email: [barubarranch@gmail.com](mailto:barubarranch@gmail.com)  
website: [www.barubar.com](http://www.barubar.com)

### IMS (formerly Capitol Metals).

Full service supplier of Steel, Stainless, Brass, Aluminum, Copper. 5150 S. 48 ST. PHX. 602-454-1500

### Pieh Tool Company Inc.

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

### Scottsdale Farrier Supply

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

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

### Norm Larson Books

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

**Brent Bailey.** A blacksmith in California specializing in custom tools and ornamental forgings for artisans.

[www.brentbaileyforge.com](http://www.brentbaileyforge.com)

### Pacific Insulation Company

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

### Blue Moon Press, Ltd.

Metalwork books, some of which are only available through them.

[Bluemoonpress.org](http://Bluemoonpress.org)

Toll free ph. 866-627-6922.

### Vern Lewis Welding Supply,

Discount pricing for AABA members. Contact: Chris Perella @ 602-319-7693  
Examples: Oxygen - \$12.30 (LG Cylinder) 75/25- \$39.38

Arizona Artist Blacksmith Association  
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Chandler, AZ 85224  
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For membership info or address changes, contact: Terry Porter 2310 E Melrose Street, Gilbert 85297 480-988-2070 trp555@prodigy.net



*Inspiration from  
The Kinyon Bell  
Collection.*

*The arm (left  
photo sticking  
out to the right)  
of doorbell is  
forged from the  
pipe that makes  
the bell. The  
clapper was in-  
serted and the  
whole thing  
drawn out to  
make the arm.*

