

BAM

July / August 2017

Nathan Robertson Demonstrating
at Hank Knickmeyer's



July / August 2017
Volume 34, No 4

Blacksmith Association of Missouri

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The Newsletter of the Blacksmiths Association of Missouri is published six times a year and is mailed to members of BAM.

The annual fee for regular membership is \$30/year; a portion of this amount is for a subscription to this newsletter for one year. Editorial inquiries should be addressed to : Jon McCarty 815 Miller Street, New Haven, MO 63068; (636)359-1246, or send an email to: bameditor2015@gmail.com

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From the President

By: Steve McCarthy

It comes as no surprise, but summer has finally set in. It is hot and dry in Texas County just as I assume it is at your place. About the only thing I look forward to with this kind of weather is that the mowing will stop for a few weeks. I am in the heat all day at work, but thankfully don't have to do much physical labor. Working at the forge has been reduced to 2 or 3 hours in the evenings after supper. And even that isn't every night. The older and fatter I get, the less I like the heat. If you are going to be out in it, whether working or playing, be sure to stay hydrated.

The July meeting at Hank and Bonitta Knickmeyer's was a near perfect day. It was a little on the warm side, but not terribly so. Hank's place is a beautiful setting. End of the road seclusion is always good. The demonstration by Nathan Robertson was nothing short of awesome. The first 15 minutes or so was dedicated to a safety discussion. I really appreciated this. Nathan recounted the story of getting his fingers in the air hammer last fall. Even with his thousands of hours at a power hammer disaster still struck. His injury was pure accident but it made me think of some the foolish things I have knowingly done at my hammer. Thankfully his fingers are still there and working for the most part. The next several hours were pretty much devoted to tooling. I am always amazed by what can be accomplished with a set of flat dies and the proper tooling. Not only did Nathan demonstrate the tools, but also how to make them. I should have taken a lot more pictures because I'm sure my memory will fail me. I am already going to have to remake the tooling holder for my Bradley after seeing how it should be made. The meeting ran quite a bit longer than our usual. We had a superb lunch catered by Jon and Heather McCarty, a very brief business meeting, Iron in the Hat, and then back to the hammer. Nathan worked until 4pm or so. The last thing he forged was a wrought iron sculpture piece that will go in the auction at BAM 2018. The only disappointment to the day was that Bev didn't make the trip with him.

Speaking of BAM 2018, preparations are coming along nicely. By the July meeting Michael Gorzel had two confirmed demonstrators and was working on a knife maker. Remember, we need volunteers to make it all go smooth. Help is needed with set up and tear down, site captains for the demonstrators, selling tickets, the auction, and the list goes on. Don Birdsall has asked for some help with the Beginners Class. Two or

three members that could help when a student is having a hard time would be much appreciated. When there are ten students the instructor gets spread pretty thin.

By now I am sure everyone is aware of the problems we had with the individual scholarship program, and the vote that it be suspended for one year. The demonstrator fees for the July meeting were paid out of the Preston Williams Memorial Fund. It has been suggested that we use the money previously spent for individual scholarships to hire demonstrators a couple times a year. I see pros and cons with this; I also see pros and cons with returning to some sort of individual scholarship. I think we are going to have to appoint a committee to hear suggestions from the membership, weigh options, and develop a couple of plans that can be voted on. When it comes time for a vote, every member should have the opportunity to do so regardless if they are able to make it to a meeting or not. The best way I know of to make that happen is to include a ballot in the news letter. All this will be a topic of discussion at the September meeting. I look forward to a big turnout.

Until we meet again, Happy Hammering.

Steve McCarthy



Editor's Ramblings

By: Jon McCarty

So it has been a busy few weeks for me. We have been remodeling our kitchen and that has taken up all my time. We did take a break for a weekday at Bernie's. This was the first time I had made it out to see Bernie's shop. I had a good time and got to talk shop with a few of the fellow blade making members.

I plan to be at the next meeting in September at Don's. Be sure to take a minute to add BAMEDitor2015@gmail.com to your google calendar to stay up to date on the upcoming BAM meetings and events. Also take a look at the upcoming events on the next page. We are in need of a few meeting locations. So far I only have November on the schedule and possibly January. If anyone would like to host a meeting please contact Bernie Tappel, Steve McCarthy, or myself.

I am working on plans for a bellows, based on plans I found online. I will be sending those to Bernie when they are done to have them posted on the website. I am working on a list for a possible belt grinder workshop. If your interested please send me an email @ BAMEDitor2015@gmail.com so I can get a list started. At this time I will be putting together a price list for a 2x72 grinder with a flat platen. Just to keep the parts list a bit more simple. I have not decided on whether or not to make the motor the responsibility of the individual attending the workshop. There are many options here, however the motor does decide on the diameter and bore of the drive pulley. Please let me know if you would prefer to supply your own motor or if you would prefer that to be part of the workshop price. If you would like it included please also let me know if you would be interested in either single speed or variable speed on the drive.

Stay safe.
Jon



Meeting Minutes - July Meeting

By: Bob Stormer

Steve McCarthy opened the meeting by thanking Hank and Bonita Knickmeyer for hosting the meeting. He also thanked Nathan Robertson for his demonstration.

Bruce gave the treasurer's report and said we now have 620 members. Steve mentioned that the demonstration by Nathan was funded with the Preston Williams scholarship and BAM is still taking donations for all the scholarship funds.

Kent Harbit provided state fair tickets to those who are going to demonstrate at the BAM tent during the state fair. Contact Kent at 660-647-2349 if you are planning to demonstrate. The BAM tent could use demonstrators from Aug 10th through Aug 19th.

The meeting was kept short so Nathan's afternoon demonstration could get started.

The meeting was adjourned.

Iron In the Hat - July Meeting

Donated by	Won By	Item
Neal Poort	Mike McLaughlin	Demo Horseshoe #1 from June Mtg
Neal Poort	Mike McLaughlin	Demo Horseshoe #2 from June Mtg
Charles Schumann	John Huff	Books and RR Spikes
Dan Wedemeyer	Earl Million	Garage Springs
Andy Herzog	Earl Million	Lawn Mower Blades
Earl Million	Don Birdsall	3/8" Rake Tines
Charles Schumann	Dan Wedemeyer	Nippers
Dan Wedemeyer	Earl Million	Garage Springs
Knickmeyers	John Sherwood	Cheese Butter Dish
Karen Bouckaert	Chris Miller	Anvils Ring & Hammers Blow
BAM	Don Birdsall	BAM Tee Shirt
Knickmeyers	Jon McCarty	Leather Vest
Earl Million	Dan Wedemeyer	1/2" Rake Tines
Karen Bouckaert	Dan Wedemeyer	Anvils Ring & Hammers Blow
BAM	John Huff	BAM Tote

Upcoming Events...

September 16th 2017 - Meeting, Don Birdsall, Rolla MO

November 4, 2017 - Meeting, Doniphan MO

November 4, 2017 New Haven Fire Festival

November 24, 2017 Black Friday Hammer In - Ken Jansen

May 2018 BAM Conference

January 1, 2018 Hammer-In Pat McCarty, Washington, MO

November 3, 2018 Meeting, John Murry's

If there is an event that is not listed or a meeting that you are interested in hosting please contact us at BAMeditor2015@gmail.com.

Nathan Robertson Demonstration ~ July Meeting

By: Bob Stormer

The following is a collection of notes I took while watching Nathan demonstrate and talk about power hammer tooling. The best way to learn from Nathan is to be present at his demonstration, which is also true of most demonstrators. Reading someones notes always leaves questions that could have been asked and answered at the demonstration. Because of that, I urge BAM members to attend the BAM meetings and take advantage of the excellent demonstrations at the meetings.

Nathan emphasized that although he was using a large Nazel power hammer in Hank Knickmeyer's shop, most of the principles he discussed apply to the use of smaller power hammers and in some cases hammering on an anvil, possibly with a striker. He was very specific that if you don't develop good hammering techniques with a hand hammer on the anvil, the power hammer won't help you much with the quality of your work.

Regarding safety, safety glasses, and ear muffs, as Nathan wore, are essential. Good fitting ear plugs will also work. This is probably a good time to suggest that all demonstration viewers should be wearing safety glasses and hearing protection at all the BAM meeting demonstrations. Admittedly this particular demo was louder than most due to constantly running Hank's large hammer, but the truth is that a hand hammer hitting the anvil repeatedly can also do damage to your hearing and flying chunks of hot steel can come off the anvil and travel into the viewers space. Burning a hole the new pants your wife gave you could be the least of your problems.

The first thing Nathan talked about was handles for the tooling. The handles need to be flexible so they don't transfer the shock of the hammer to your arms, elbows and shoulders. Quarter inch round stock is very good. The handle should have an elongated loop that feels good in your hand. However, do NOT put your fingers in the loop as you hold the tool. If the hammer hits it wrong and sends it across the room, you don't want your fingers going with it. You can make a bucket full of handles in a short time and have them ready whenever you want to develop a new tool. To provide more weld surface when attaching the handle to the tool, you can bend the end at a right angle where it mates with the tool. Figure 1 shows some of Nathan's spare handles along with some of the tools

he had on display. The exception to the 1/4" round handle would be when making a handled punch. For the punch you need the ability to twist the punch to work it loose from the hole, so it needs to be made of flat stock. I think Nathan may have used 1/8" by 3/4". It will still bend in the vertical direction to absorb the hammer shock, but you can rotate it horizontally to loosen it from the punched hole.



Figure 1

He also frequently uses spring fullers with the power hammer. Figure 2 shows some of the spring fullers he had on display. To make the handles for the spring fullers he uses and another power hammer tool. The tool was made of a piece of round stock that was about 2 1/2" diameter, about 3" long and had an approximately 1 1/2" square block welded along the axis of the round piece. He then welded a handle on the end at an angle of about 30°. To make the spring handle he started with a piece of 30" flat stock, that I think was about 1/4" by 1", and bent it in the middle over the anvil horn with about a 2 1/2" diameter loop. He then finished it by placing the tool in the loop and setting it over the back edge of the flat dies on the power hammer, keeping the square part of the tool on the dies. One light blow of the hammer and he had a perfect spring tool handle. Figure 3 shows Nathan using his handle bending tool.

If you are using flat dies to draw out a piece of steel. Don't take any bigger bites than 1/2 the stock thickness. Trying to draw it with bigger bites will result in fish lips on the steel, and probably in your facial expression when you see what happened. To draw out

round stock you need to follow the S-O-R rule. Start by making it square and draw it out to the dimension/taper you want, then make it octagonal, and then back to round. Nathan made it look easy. Use of a v-block while working with round stock will help prevent “piping” (existence of a hollow spot in the middle of the stock). The v-block exerts pressure from three sides as you hammer.



Figure 2



Figure 3

Upsetting big blocks of steel is often done using a power hammer due to the extra power it provides. Nathan provided a guideline for the ratio of height to width of 3:1, possibly 4:1, before you will start getting “mushrooming” on the top and bottom of the piece. Even with the preferred ratios you still need to heat soak the work so it is an even temperature all the way through. The even temperature allows all parts of the steel to move equally under the same pressure of the hammer.

Nathan had a lot of tools on display, but I was only able to stay long enough to see him use some of them

and talk about others. Among the most used was the blocking tool, which is about a 1” square, and round edges with a handle welded on the end. Figure 4 shows Nathan using the tool to start making another



Figure 4

tool. Another frequently used tool is the v-block and tapered v-block. To make a v-block you can saw a piece of square stock in half on the diagonal and use it shape the “v” in a block of steel. Another favorite is the flatter. Nathan had a couple he talked about. One was just a piece of round stock,

about 1 1/2” diameter that was cut in half lengthwise, with a handle welded on the end. This type of flatter is good if the angle at which you're using it doesn't exceed 14-16°. He uses flatters that are shown in Figure 5 for angles up to about 20°. The middle flatter in Figure 5 can be made by using a piece of 3/8” to 1/2” flat

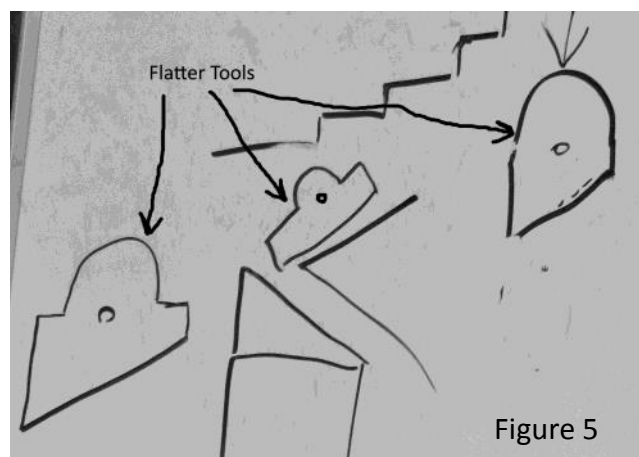


Figure 5

stock with a piece of 1” half-round welded on it. The round top on the flatter allows the tool move a little to line better with the work piece. Another tool that gets a fair amount of use is the butcher. Nathan's drawing is Figure 6. He was very clear about making the top angle less than 90°, with 85° being about right. That gives you a better chance of getting a good cut in case you don't quite have it vertical when the hammer hits it. You can also make a spring butcher to cut from

Nathan Robertson Demo. Continued...

By: Bob Stormer

both sides of the stock by welding mirror image butchers on a spring tool handle

Another comment Nathan made about making power hammer tools is that you should “almost” never have sharp corners on your tools. They don't need a large radius, but some radius will prevent the tool from leaving a sharp inside angle on your work, which could be a failure point.

As I understand, Nathan went into the late afternoon with sharing his knowledge, and I know it would have been well worth watching, but I had another commitment. If you get a chance to go to one of his demos, you won't be disappointed.

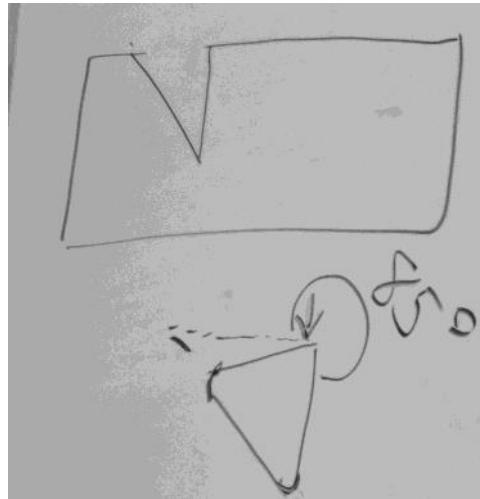


Figure 6

Photo Gallery ~ Nathan's Demo ~ July Meeting

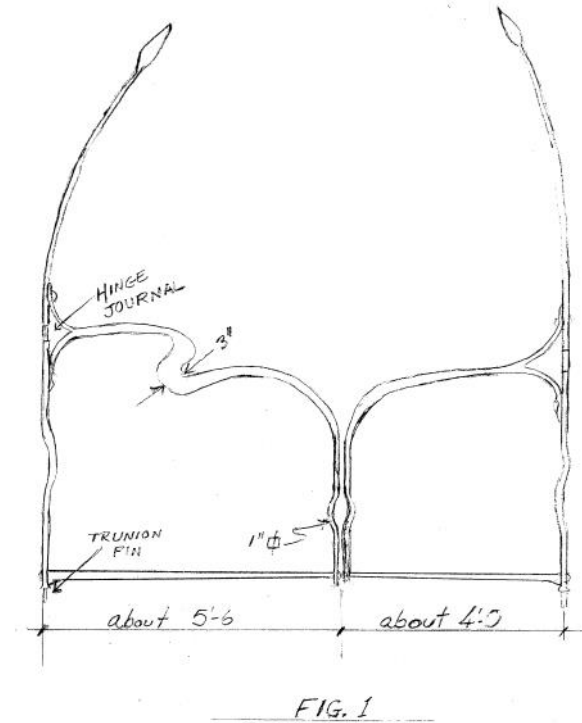




Black Jack Gate

By: Walt Hull

The Black Jack gate project, which had gone into hiding for a while, has resurfaced and actual progress is being made, albeit at no great speed.



The delay came with the gate frame itself, which looks something like Fig. 1. I'm drawing this freehand from memory at my desk, so don't hold me to the details. I've left out the decorative infill for simplicity.

The material was all on hand, thanks, I believe, to Bob Evans, and the long tapers and seed-heads on the back stiles had been forged. The daunting part was the curved element which serves both as front stile and top rail. The piece is forged from 5/8 x 3 flat bar and the tightest bends come where the bar is full sized and bent the hard way. Some people thought we'd need power equipment, but I thought we could do it with heat, muscle and hard-headedness. I appealed to Kate's gullibility and sense of challenge, and we decided to go for it.

The bottom rails were fairly straight-forward, a taper from 1-1/4 x 2 to 1" square, and a tenon on each end. Then the bar was drilled to accept the grass-like infill elements, which have already been forged and can be added after the frame is assembled.

The back stiles are made from 1-1/2 square bar. We

had to forge a 1" round pin on the bottom end and a 1-3/8" round journal to for the hinge. The challenge here was being sure that their centers were in a line. We did pretty well with a fabricated alignment jig and some stress relief and then sent them to a neighborhood machinist to clean them up. We forged the trunion pin first, then the hole for the tenon on the bottom rail. The bend in the bottom part of the stile was then made and alignment corrected, then the journal forged and alignment tweaked again on the jig. The holes for the rivets where the third piece attaches were to be drilled later.

Finally that last piece had to be confronted. Before the bending could be done it had to be forged to profile, so I made a layout of the piece as it would look straight, working from the full-scale drawing. Since everything on the drawings was metric I sent to Amazon for a good metric tape measure. Consistency was required, and continually converting is the road to madness.

Fig 2 shows a portion of my straight layout divided into sections of constant taper.

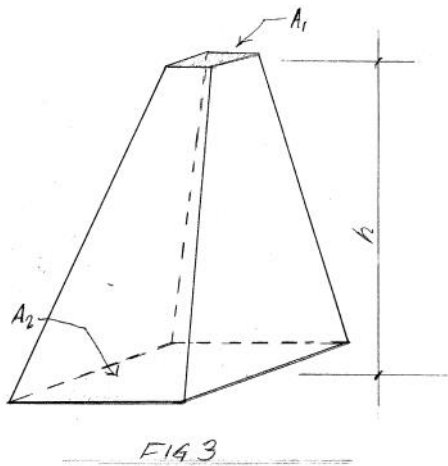


The far left bit, for example, is to be forged to a taper from 20 x 60 mm to 16 x 75mm, over a distance of 180 mm. The next section goes from 20 x 35 mm to 16 x 75 mm over 489 mm, and so on.

The next step was to find out how much 5/8 x 3 (that is, 16 x 75) was required to forge each of these sections. To do that I calculated the volume of each and then divided by 16 x 75, or 1200 square millimeters, the cross-sectional area of my parent bar.

In real life I did all these measurements and calculations repeatedly, and, just for a cross-check, in both metric and inches.

$$V = \frac{h}{3} (A_1 + A_2 + \sqrt{A_1 A_2})$$



To calculate the volume of each section I used a formula I got from Machinery's Handbook, which is a treasure trove of such information. It's the formula for the volume of a truncated pyramid (Fig. 3). Strictly speaking, this is only good when the two ends are the same shape, but for our purposes this is close enough. This looks like a lot of calculating, but once you get into it goes well.

Another approximation is to simply average the two areas and multiply by h. This method tends to overestimate the volume, but the effect is not large unless the taper is quite steep.

In Fig. 2 the larger numbers are the finish length of each section and the smaller numbers give the amount of parent bar required to forge it. That bar was cut to length (with a little extra "just in case"), marked off and forged to profile, and the hole for the tenon on the bottom rail slit and drifted.



Figure 4

To do the bending we copied the full scale layout onto the bench and welded down stops to bend against (additional pivot points were added as needed as bending progressed). We assembled a group of strong and willing folks (Fig. 4) and went at it brute force (Figs. 4, 5).

Normally when bending a piece to a drawing I will start at one end and work along. This time we started at the hard place so as to have the straight part of the bar for leverage.

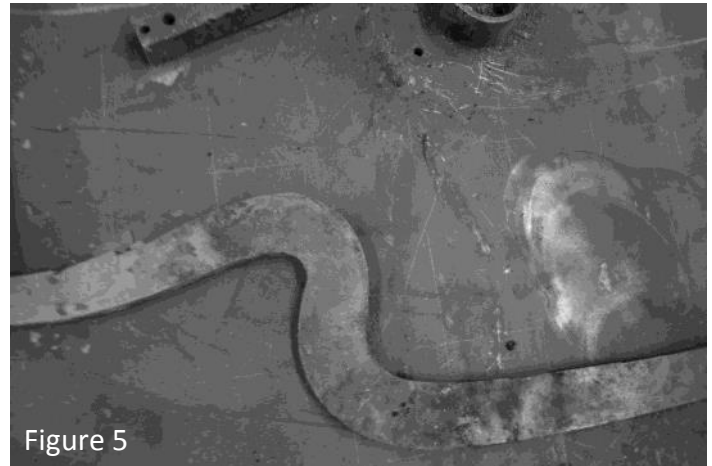


Figure 5

It took a number of heats, and after the first few the piece would no longer fit in the gas forge so we used the coal fire. My bench top is a 4' x 10' piece of 5/8" plate, so it weighs in at just over 1/2 ton, but it's on wheels and attempts to block them with pieces of angle were only intermittently successful. None the less we persevered and got it done with no serious injuries. (Figs. 5,6).



Figure 6

Bernie and Pattie Tappel Hammer In

By: Heather McCarty

I first want to thank Bernie and Pattie for hosting the Hammer In back in July. Although it was somewhat rainy, it definitely did not ruin our day. It appeared to be great turn out. I have only really ever attended one person's hammer in before, and that was dad's (Pat McCarty). It was much different to be on the spectator side of things.

Lunch was simple with sandwiches and extra treats brought in by other BAM members. While the guys were out in the shop working the ladies were inside relaxing and chatting and exchanging of recipes. It was a very relaxing day if I do say so myself. Jon and I brought our girls, Dori and Madi, and they both enjoyed themselves as well.

I finally was able to venture to the shop before we left and found several forges roaring and the sound of hammers pounding on hot steal. Over all of it, chatter and laughter. After all, that is what it is all about. A time to get together, chat, learn something, relax, and have some fun.

I saw many of the younger generation taking their turns at the forges as well. I have seen it at Pat's hammer in's too. I think it is absolutely wonderful to see the younger generation trying their hand at this wonderful art. Both my girls have been behind the forge, though they did not attempt at this hammer in, they fully intend to learn more and more about the blacksmithing trade.

I hope I am able to attend more of these types of events with Jon going forward.

Once again, I want to thank Bernie and Pattie for a great time. I know we enjoyed ourselves. It was a nice break from our kitchen remodel.

Until next time,
Heather

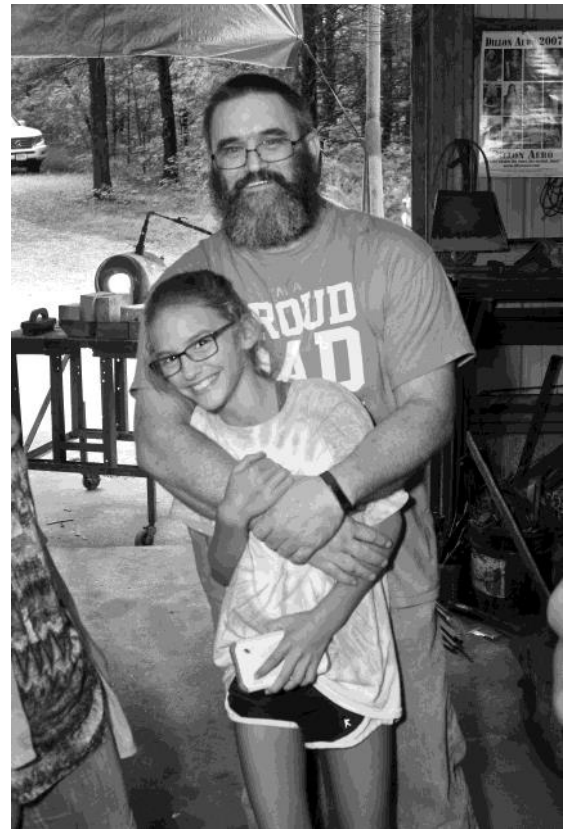


Photo Gallery ~ Bernie and Pattie Tappel Hammer In

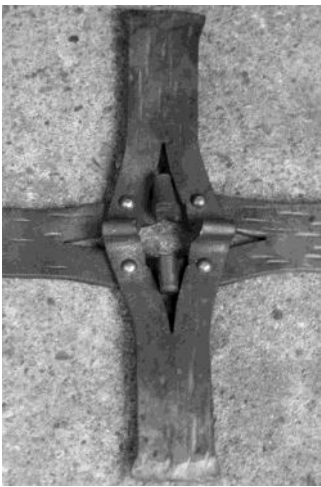
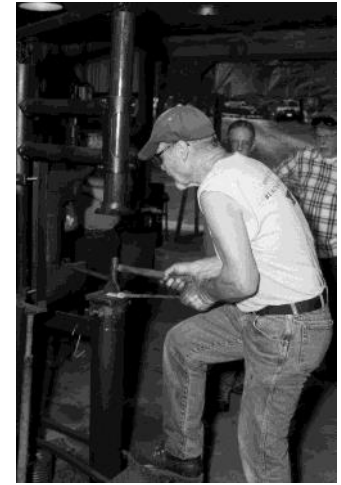
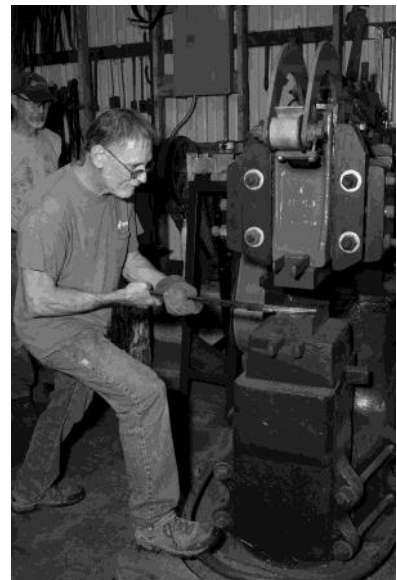


Photo Gallery ~ Tappel Hammer In Continued





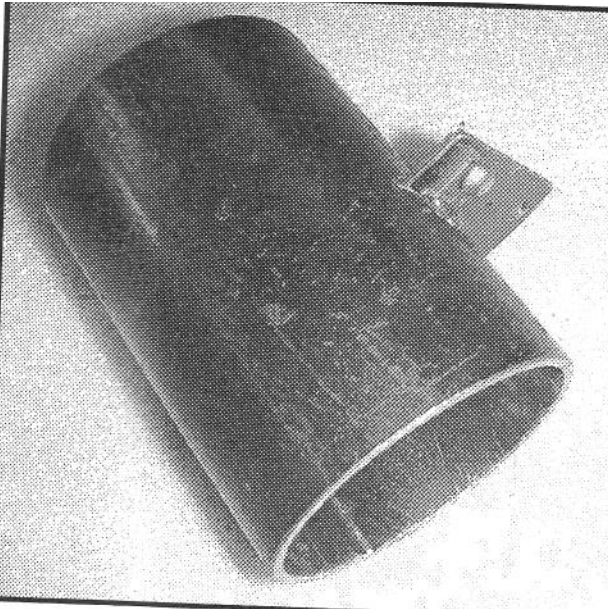
Historic Forge

By: Heather McCarty

Coal Forge Air Gate
Journal of the Alabama Forge Council
January –February 2013
Volume 19 Number 1

Lester Beckman has come up with this very simple design, easy to make air gate.

Although it is labeled “Coal Forge Air Gate,” the design is applicable to other application, such as a gas forge, simply by changing the diameters to suit your requirements.

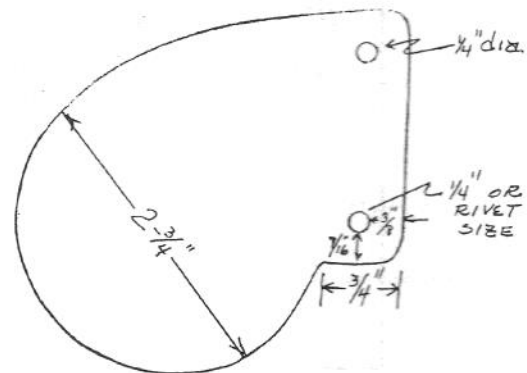


There is only three parts to the basic air gate. A 5” piece of 3” diameter, 11 ga. tubing, and a 6” x 6” piece of 16 ga. sheet metal, and a 1” piece of 1/4” x 1/4” to make the small tab. The length of tubing is not at all critical; just make it whatever is convenient for mounting on your forge. It is recommended consideration be given to make the tubing long enough to slide directly into the Tuyere and go beyond the forge stand on the other end. This provides easy mount for the control rod on the side of the forge stand. The piece of sheet metal is a bit oversize to what is actually needed to make it easier to hold when cutting it out.

The slot in the tubing for the sheet metal gate can be done either with a hack saw, band saw or chop saw. The particular one to use is determined by the width of the kerf of the blade. Lester used his chop saw on this one; Too, even though 16ga. sheet metal for the slider is specified, it can be made using whatever you have available, such as 14 or 18 ga. “It’s what you do with what you’ve got”! Obviously, the closer the fit between the slot and the slider the less loss of air there will be.

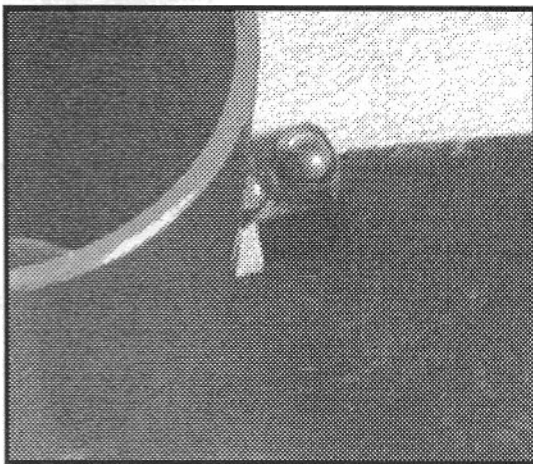
Go to work by cutting the slot. It should go slightly beyond the halfway point diametrically. This allows the gate to close fully without binding. Locate the slot (lengthways) on the tube to allow the gate slide to be directly below the forge stand end IF THAT IS WHERE YOU WANT YOUR CONTROL ROD TO BE LOCATED! An advantage to this design is that the gate assembly can be rotated to permit gate control can be either vertically (up-down) or horizontally (push-pull).

Next, cut the slider from the piece of sheetmetal. Draw a 2-3/4” circle and mark the other end coming off the circle in a curve at the top and squarely at the bottom as shown in the sketch. Drill the two 1/4” holes as shown. The top hole is for the control rod, the bottom is for the mounting rivet. If a rivet size other than 1/4” is to be used, drill the hole to correspond to the rivet to be used.



Mounting the Slider

Drill a 1/4" hole 7/16" from the end of the 1/4 x 1/2" stock. Weld this end to the tube at a point that will accommodate the slider to operate smoothly when the attaching rivet is in place. Cut the mount off at 1". Install the slider with the rivet. It is strongly advisable to spot weld the rivet to the slider so that the rivet will rotate with the slider. This provides a large bearing surface for the slider rather than let the rivet stay fixed and the slider rotating on the rivet. See the photo for the rivet detail. Using a center punc, put a dimple in the slider to stop it from coming all the way out of the tube.



BAM Tailgate

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Real slate chalkboards for your shop various sizes and prices call Matthew Burnett for details (816) 575-2798

Commercial / Resource ads: Services:

Beverly Shear Blades Sharpened. Remove blades from shear and ship to Clay Spencer, 73 Penniston Pvt. Drive, Somerville, AL 35670 \$41 includes return postage, additional cost for deep notches or blades previously sharpened at angle.

Little Giant-- We can do repairs on any or all components of your Little Giant front assembly. Contact Roger Rice, Midwest Machine, 6414 King Road, Nebraska City, Nebraska 68410. (402) 873-6603

Roller Blade Treadle Hammers (Clay Spencer design) for Sale or Workshops led to build hammers. Bob Alexander, e-mail to scruboak4@netzero.com, or call 636-586-5350.

Information / Education:

Missouri School of Blacksmithing
Cameron, MO
Instruction by Matthew Burnett
Group and Individual classes offered.
816-575-2798

Tong Making Class--Weekend Course, 4 people per class - \$125 per person. Contact: Charles Comstock, Rt.1 Box 20, Deerfield, MO. 64741 (417) 927-3499, or (417)-321-2286 cell

Back issues of Jerry Hoffmann's Blacksmith's Journal, Call 1-800-944-6134 for more information.

Classes offered, The Ornamental Iron Shop

Contact the instructor to register and customize your class.

John D. Thompson – Metalsmith
3923 Hwy 25; Hodges, SC 29653 864-374-3933

Classes at Pieh Tool Company, Inc. - Camp Verde, AZ

The Bill Pieh Resource for Metalwork.

Call now for more information and to enroll:
(928) 554-0700 or (888) 743-4866.

www.piehtoolco.com.

Mathias Penn is offering introductory & beginning blacksmith classes. 417-543-2148
Tytheblacksmith@yahoo.com

oldschoolcrafts Blacksmith School, Joe Davis
12625 Lawrence 1175, Mt Vernon, MO 65712 phone
417-461-0387 on the web www.oldschoolcrafts.org E-Mail oldschoolcrafts@hotmail.com

David Norrie blacksmithing school in Colorado
David Norrie 303-859-0770 <http://www.forgewithintention.com>
or <http://www.davidnorrie.com>

The Upper Midwest Blacksmiths Assoc (UMBA)
video library. An index list can be viewed at
www.umbaonline.org

They are VHS or DVD-R Cost is \$5 each with \$2 per order shipping there is no return date, you keep the video for this price. All videos are made at group demos, no commercial titles.

Blacksmithing E-books on CD

Now eight titles are available on CD, \$4/each, or all eight books, \$24 postpaid. More books are in production and will be available soon- order on-line at www.blacksmithingebooks.com, or check/MO to Brian Gilbert, 3404 Hartford Dr., Chattanooga, TN 37415.

Ray Clontz Tire Hammer Plans by Clay Spencer
Send check/money order for \$30 to Clay Spencer, 73 Penniston Pvt. Drive, Somerville, AL 35670-7013.
Includes postage to US and Canadian addresses.

Other countries e-mail clay@otelco.net for price. 256-558-3658. Tire Hammers for sale contact me for current price

New England School of Metalwork

www.newenglandschoolofmetalwork.com 1-888-753-7502

Power Hammer page

I've taken some time to collect and post old info, catalogs and brochures on power hammers. The link of our NEB web page to this information is: http://www.newenglandblacksmiths.org/power_hammer_info.htm Ralph Sproul

Rochester Arc & Flame Center! Featuring Blacksmithing, Welding & Glass Blowing, over 30 classes available for all levels of interest, rocafc.com 585-349-7110

For Sale: Power Hammer instruction DVDs. \$125 per set. Clifton Ralph, 4041 W 47st, Gary, Indiana, 46408 (219)980-4437

Products:

Forge-Aprons offers seven different styles of leather blacksmith aprons; the Original bib, the Short bib, the Full-Cut bib which offers greater chest coverage, the Lap apron, two sizes of Kid's aprons, a Budget apron and our brand new, limited edition Flame apron which features flame imprinted buckles and an anvil engulfed in flames on the logo pocket. www.Forge-Aprons.com

Heavy-Duty Fry Pan Blanks 9" diameter, tapered sides 12

Or 13 gauge steel (approx.2 pounds) no predrilled holes for the handle \$14.00 each..1-4, \$12.00 each.5-9, \$10.00 each...10+. Shipping: \$5.00 plus\$1.00 each frypan Bob Tuftee 563-332-4800 6 Hollows Court LeClaire, IA 52753

L Brand Forge Coke now packaged in 50 pound bags on pallets. Send your zip code for a quote on price including delivery.1-678-360-3521 or LBrand-ForgeCoke@aol.com.

Chile Forge- Next generation gas forges www.chileforge.com David Starr 520/360-2141

Kayne and Son Custom Hardware, 100 Daniel Ridge Road,Candler, NC 28715. (828) 667-8868 fax (828) 665-8303, e-mail:

kaynehdwe@charter.net, web site: www.blacksmithsdepot.com.

Offering a full line of blacksmithing equipment. We ship and accept Visa and Mastercard.

D.L. Schwartz Co. Blacksmith and Farrier supplies.

2188 S. US 27, Berne, IN. 46711, 1-800-955-3064

SOFA fire pots are once again available. For information contact Bob Cruishank, 1495 W. Possum Rd., Springfield, OH. 45506 Phone: (937) 323-1300 or www.creativeironforge.com or www.sofablacksmiths.com

USA Dealer for REFFLINGHAUS ANVILS, 77 to 1250 lb.

European 2 horn with or without upsetting block & side shelf.

Over 100 sizes and styles available. Guaranteed face @ HRC59

Dick Nietfeld www.blksmith.com Phone (308) 384 1088

Wanted:

Blacksmith business cards. I would like to put together a collage of Blacksmith business cards. Bring them to a meeting or mail them to me with your dues.

Bruce Herzog
2212 Aileswick
St. Louis, MO 63129

Demonstrator List

Fred Weisenborn has started a list of members available for demonstrations, fairs, historic events, and festivals, etc. 417-589-2497 e-mail: jweisenb@llion.org

Around the Anvil BAM has its very own E-Mail news group. If you would like to participate there is a sign up link on the bamsite.org or send an E-Mail to Bernie Tappel at bamweb@embarqmail.com and he will get you signed up.

Check out back issues of BAM newsletter on www.bamsite.org. It now has a search feature to help you find old articles.

Ad Policy: Blacksmith related ads are free to BAM members. Personal ads will run for two issues.

Resource ads are ongoing at my discretion. Send to BAMeditor2015@gmail.com, or call 636-359-1246

WELCOME

Daniel Colhour
300 NW 400 Road
Warrensburg, MO 64093
816-985-5913

Michael Crain
4517 Project Road
Lubbering, MO 63061
314-517-2427
mjcrain74@gmail.com

Chris English
3610 English Road
Farmington, MO 63640
573-760-2272
bearclaw529@yahoo.com

Craig Ferrell
23 State Road JJ
Long Lane, MO 65590
417-733-4840
75pout@gmail.com

Wade Horton
7169 Liv 2162
Chillicothe, MO 64601
660-639-3585
dhorton@grm.net

Easton Ingran
904 County Road 2270
Salem, MO 65560
573-308-6174
eastoningram@gmail.com

Noah Jaksetic
8612 Cleveland Avenue
Kansas City, KS 66109
913-710-7404
14jaksetic@gmail.com

John Kirby
105 Hardy Street
Knob Noster, MO 65336
573-699-5630
jdkirby1154@att.net

Jake Kraus
2667 McNamee School Road
Pacific, MO 63069
314-440-4029
tripleccattle@outlook.com

Robert Miller
222 Tomahawk Road
Jefferson City, MO 65101
573-645-4916
moesperts@gmail.com

Steven Allen Ray
536 County Road 506
Williamsville, MO 63967
573-297-3498

Randy Simmerman
7565 Oakland Gravel Road
Columbia, MO 65202
simmermanr@Missouri.edu

John Simpson
20439 PVT 220 Drive
Marshall, MO 65340
660-815-0977

Terry Tanner
200 West Locust Street
Union, MO 63084
636-358-3179
tlttanner@hotmail.com

Sean Turlington
8915 Excelsior Road
New Haven, MO 63068
636-266-9945
crashers08@gmail.com

NEW MEMBERS

BAM Coal Stations

Price per bag:

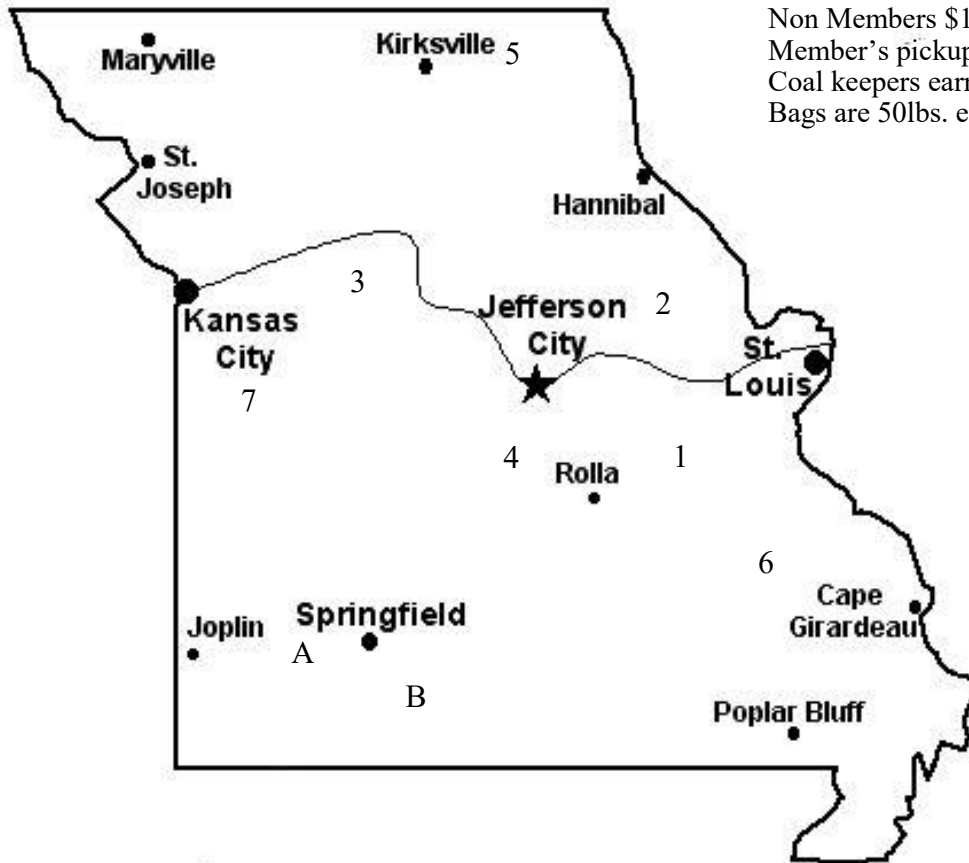
BAM Members \$14.00

Non Members \$19.00

Member's pickup at Bob Alexander's - \$12.00

Coal keepers earn \$3.00 per bag

Bags are 50lbs. each



1. Bob Alexander (636) 586-5350
14009 Hardin Rd.
DeSoto, MO 63020

2. Ken Jansen (636) 295-5844
2257 Carter Rd.
Moscow Mills, MO 63362

3. Doug Clemons (660) 595-2257
29377 Durango Ave.
Malta Bend, MO 65339

4. Jerry Rehagen (573) 744-5454
390 Bozina Valley Trail
Freeburg, MO 65035

5. Joe Hurley (660) 379-2365
or (660) 626-7824
Route 1 Box 50
Downing, MO 63536

6. Bob Maes (573) 866-3811
Route 1 Box 106 K
Millersville, MO 63766

7. Bryan Lillibridge (660) 638-4536
1545 NW 300
Urich, MO 64788

Non BAM Coal

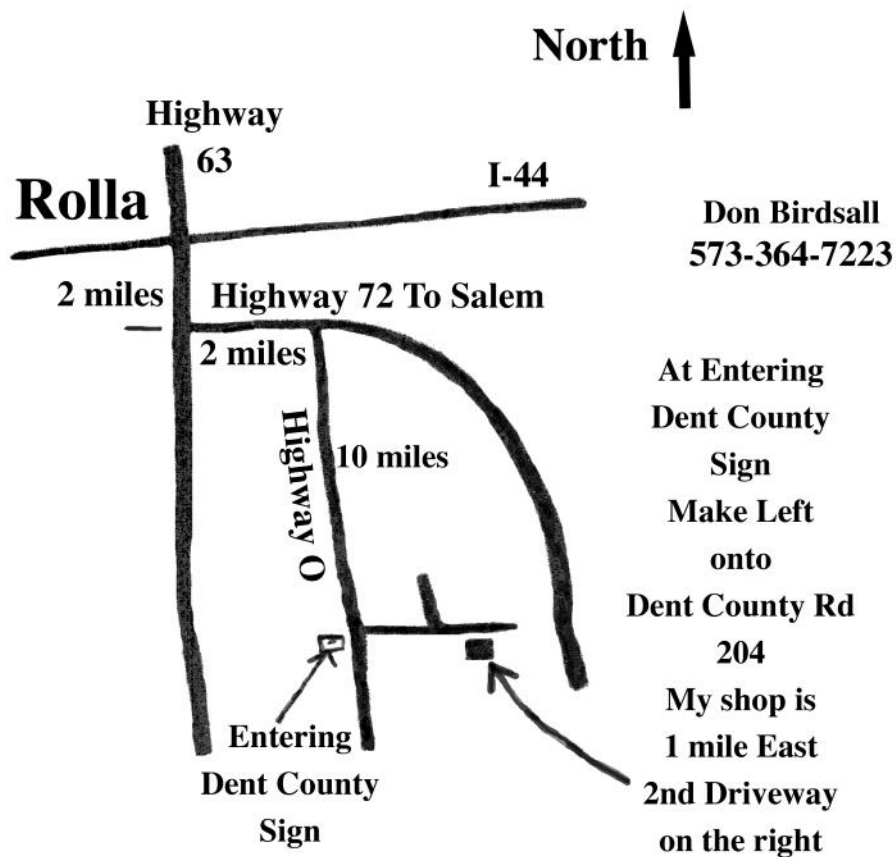
- A. Tim Johnson, Springfield, MO 417-886-8032 - \$.40/lb. check, \$.35/lb. cash. Bring your own containers.
B. Good blacksmithing coal for sale \$12 per 50# bag with bulk delivery available.
Matthias Penn Rt. 1 box 479-S Ava, Mo. 65608. (417)-543-2148.
Or e-mail tytheblacksmith@yahoo.com.

BAM
2212 AILESWICK DR.
ST. LOUIS MO 63129

Please send changes to Bruce Herzog, 2212 Aileswick Dr., St. Louis MO 63129 or e-mail to bjherzog@charter.net

Next Meeting: September 16, 2017

Don Birdsall, Rolla MO



The trade item is an art object. A food truck will be on site at 7am for breakfast and lunch.