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THE FORGE FIRE

The Newsletter of the Indiana Blacksmithing Association, Inc.

An Affiliate Of The Artists-Blacksmiths' Association of North America, Inc.

IBA is a Not For Profit Indiana Corporation recognized by the IRS under section 501(c)(3)

9:30 AM is the regular meeting time for IBA Hammer-Ins
with beginner training available at 9:00 AM.

PLEASE MAKE SURE TO ASK FOR HELP!

**If you would like an IBA membership application form,
please contact Farrel Wells, Membership Secretary
(765) 768-6235.**

BULK LOTS ARE AVAILABLE TO DEMONSTRATORS,
SHOPS, SHOWS AND OTHERS WILLING TO MAKE THEM AVAILABLE.
WE APPRECIATE YOUR HELP.

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More nearby resources and organizations for blacksmiths:

Rural Smiths of Mid-America:
Meetings are on the first Saturday of each month
Call Ron Gill
317-374-8323 for details

IBA MEETING SCHEDULE

Check the latest *Forge Fire* for monthly IBA revisions.

Apr 21 2018	JOEL SANDERSON IRON WORK QUNICY, MI
May 19 2018	PRIDDY FARM OWENBURG, IN
Jun 1-3 2018	IBA CONFERENCE TIPTON, IN
Jun 16 2018	TBD



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SATELLITE NEWS

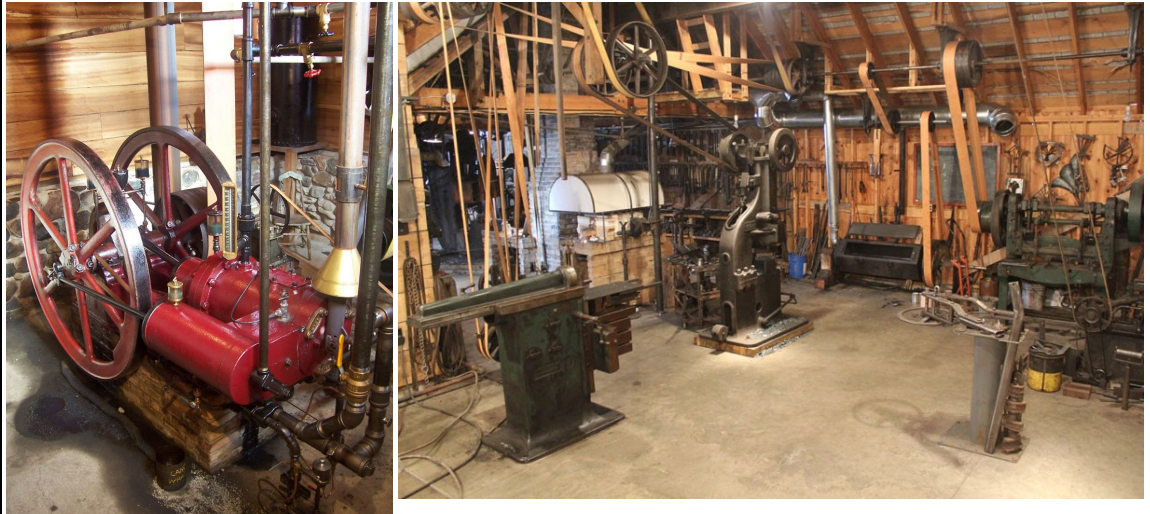
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MEETING NOTES

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IBA FORGING DAY
WITH JOEL SAND-
ERSON

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SAW TOOTH
TRAMMEL

Editors Message

Jim Johnston has arranged a huge event for this month's hammer in. On April 21 the IBA will be meeting at the Joel Sanderson Iron Works in Quincy, MI. The shop has a many different pieces of equipment driven by line shaft. The line shaft is powered by a Reid horizontal cylinder engine. There is a full day of demonstrations planned. Check out page 7 for a detailed list of the day's activities. Below are two photographs taken from the Sanderson Iron website (www.sandersoniron.com/).



The May hammer in will be hosted by Priddy Farm in Owensburg, IN. I am not sure if we have a featured demonstrator or if we will have open forging. Either way it should be a good day.

The IBA Conference is fast approaching.

- Charlie Helton asked me to emphasize that we will be judging the best of show for the gallery items. Bring something to show.
- There will be big change to the Iron In The Hat. This year will feature auction worthy items. I do not have full details, but I believe people will purchase chances for specific items. The IBA will be sponsoring a complete forging set up as an example
- You are encouraged to donate items to Iron In the Hat and to the auction.
- Featured Demonstrators are:
 - Pep Gomez: Mosaic Damascus
 - Nathan Allen: Traditional Forging
 - Bill Conyers: Power Hammer Rebuild
- As always, we can use your help for set up and tear down. Please lend a hand. Tear down is especially difficult as people are anxious to head home.

Dates to Remember

April 21
Tour of Joel Sand-
erson Iron Works

May 19
Priddy Farm
Hammer In

June 1-3
IBA Conference

IBA website: www.indianablacksmithing.org **IBA Facebook page:** www.facebook.com/groups/IndianaBlacksmithingAssociation/

IBA Satellite Groups and News

1) Sutton-Terock Memorial Blacksmith Shop

Meet: 2nd Saturday at 9 AM
 Contacts: Fred Oden (574) 223-3508
 Dennis Todd (574) 542-4886

3) Wabash Valley Blacksmith Shop

Meet: 2nd Saturday at 9 AM
 Contacts: Doug Moreland (217) 284-3457
 Max Hoopengartner (812) 249-8303

5) Maumee Valley Blacksmiths

Meet: 2nd Saturday
 Contacts: Clint Casey (260) 627-6270
 Mark Thomas (260) 758 2332

7) Rocky Forge Blacksmith Guild

Meet: 2nd Saturday at 9 AM
 Contacts: Ted Stout (765) 572-2467

9) Whitewater Valley Blacksmiths

Meet: 2nd Saturday
 Contact: Keith Hicks (765) 914-6584

11) Bunkum Valley Metalsmiths

Meet: 1st Saturday
 Contacts: Jim Malone (812) 725-3311
 Terry Byers (812) 275-7150
 Carol Baker (317) 809-0314

13) Satellite 13

Meet: 4th Saturday
 Contact: Bill Newman (317) 690-2455

2) Jennings County Historical Society Blacksmith shop

Meet: 2nd Saturday at 9 AM
 Contact: Ray Sease (812) 522-7722

4) Fall Creek Blacksmith Shop

Meet: 4th Saturday at 9 AM
 Contacts: Gary Phillips (260) 251-4670
 Dave Kline (765) 620-9351

6) St. Joe Valley Forgers

Meet: 4th Saturday at 9 AM
 Contacts: Bill Conyers (574) 277-8729
 John Latowski (574) 344-1730

8) Meteorite Mashers

Contacts: Mike Mills (812) 633-4273
 Steve King (812) 797-0059
 Jeff Reinhardt 812-949-7163

10) One-Armed Blacksmith Shop

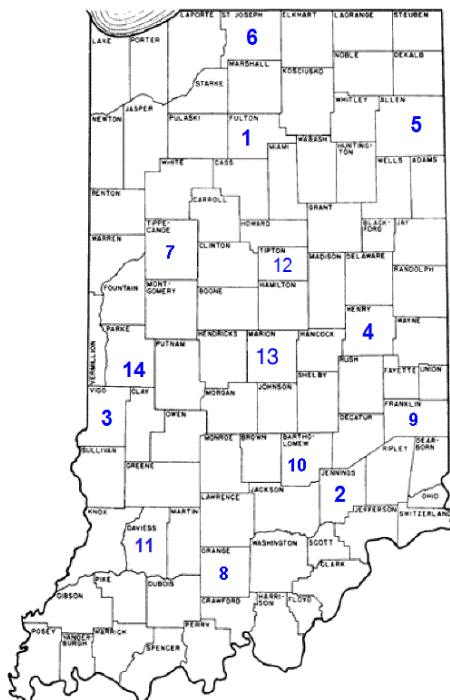
Meet: 1st Saturday
 Contact: Tim Metz (812) 447-2606

12) "Doc" Ramseyer Blacksmith Shop

Location: 6032W 550N, Sharpsville, IN 46060
 Meet: 3rd Sunday at 2 PM
 Contact: Charles Gruell (765) 513-5390

14) Covered Bridge Blacksmith Guild

Meet: 1st Saturday
 Contact: John Bennett (812) 877-7274



Bunkum Valley Metalsmiths

The Bunkum Valley Metalsmiths met on April 7th at the White River Valley Antique Association's annual swap meet. We had several in attendance. It was a very windy and cold day but we decided brave the weather anyway. We opened the blacksmith shop on the grounds and had a few of our members do some smithing. We enjoyed the vendors that were at the meet and some of our group found some treasure's they had to have. We shared lunch together as usual and had a good time visiting with the group. Thankfully we had some tarps to block some of the wind and Forgemaster Jim Malone brought a fire pit that kept us from freezing. We had several visitors stop by to say hi, or maybe to soak up some of the heat from the fire? ☺ I didn't get any pictures to share....Sorry bout that.

Until next time.....Kathy Malone, treasurer.

IBA Satellite Groups and News (continued)

Jennings County Historical Society Blacksmith shop

The Vernon blacksmiths met at the forge of Kevin Welsh and were greeted by a delicious breakfast, followed later by a huge pitch-in dinner. Kevin, assisted by Matt Jones and Bill Kendrick, started out the day by hot cutting a hammer head and formed a hardy tool. Alex Spellman, assisted by Nathan Pelter, formed a nice hardy tool from railroad iron. Xavier Good experimented with something he got from the iron-in-the-hat, which we had to pull 463 tickets to sell all the goodies! This is a personal best for us. If any other group has beat this number of tickets drawn, please let us know, because we know how much this means to us. Alex won the door prize and is responsible for next months door prize. Next meeting will be about the conference project, so please try to be there. We will be back at Vernon. Paul Bray

SPECIAL NOTE: The State meeting at Kenny's featuring Kurt Fehrenbach, stirred interest in having a power hammer workshop, with him teaching. If this becomes a reality, it would be a two day event, over a Saturday and Sunday. The shop is small so seating would have to be limited to 20 to 35 seats. The fee suggested was \$25 to \$35 for both days. Anyone interested should call Ray Sease at 812-522-7722 to secure a seat. Nothing has been finalized yet so please give us your feedback. This would be later this summer, possibly June or July. Tell us what you think! **Editor's note:** This workshop appears to be firming up for July.

Meteorite Mashers

For March our meeting was held in conjunction with the blacksmiths of Kentucky, at a hammer in in Lexington Kentucky. The BFH team demonstrated a big split cross in a driving snow sleet and rain storm with lots of cold wind. We were wet, tired and very cold when done but also happy. We called the cross a "Snow Cross" since it was forged in a snowstorm and had snow fall on it in the forge off the popup roof. We have never had to shovel snow off the burning forge till now, and we agreed that we really don't ever want to repeat the rather surreal experience of today. We will however talk about this day for years to come.

The April meeting will be held at Jeff Reinhardt's shop in Floyds Knobs.



Rural Smiths of Mid-America



The March meeting at Conner Prairie was very well attended. There was lots going on, great demos, the auction was very good and brought in some good money. The chili cook off and all the food was very good. This was the best trade item turn out in a while. Jim Jesse is the new vice president and Eric Shotwell is the new membership board member.

We will be working on the blacksmith shop in the next couple months putting it back together for the tractor show. We need to work on building the brick forge and a lot of other things.

The April 7 meeting will be at the Pioneer Forge at the Pioneer Engineers tractor club grounds. Trade item is a broom makers hammer.

IBA Satellite Groups and News (continued)

Rocky Forge Blacksmith Guild

The Rocky Forge Guild had an excellent meeting this month with 45 members and guests in attendance. The Iron-in-the-Hat raised over \$400 for the guild. Members worked on a variety of projects including making tongs and heat-treating a short sword.



IBA Business Meeting Highlights

Here are some highlights from the March IBA Business Meeting

Board of Directors Election

Gary Phillips and Steve King were re-elected to the board.

Officers & Positions

President: Gary Phillips

Vice President: Bill Conyers

Treasurer: Farrel Wells

Secretary: John Bennett

Awards Chair: Charlie Helton

Membership Chair: Farrel Wells

Elections Chair: Steve King

Education Chair: Jim Johnston

Library: Larry Rosentrader

Editor: Bill Kendrick

Conference (June 1-3) Update:

Beginners Class: Will purchase 6 Kinka 110 pound anvils

Iron in the Hat: We are changing the format of Iron in the hat. The largest part will be a complete blacksmith shop. I picked up the forge at Fred Oden's today. We got a Roger Lorange fire pot and Fred made up a table to mount it on. Kurt Fehrenbach's Class is making some tools, tongs, punches, drifts and hardy tools. We will have a forge, anvil, quench tank, and tools. It should be fun. We still need donations for the auction and iron in the hat. The only limitation is it should be something you would like to take home.

Indiana State Fair (August 3-19) Update:

We have 2 forges in the blacksmith shop plus 1 in the carriage shop.

Schedule: August 3-5 White Water Valley

6-7 Rocky Forge

8-10 Vernon Group

11-12 Covered Bridge

13-14 Bunkum Valley

15-16 Ripberger brothers, Phoebe Graham, Paul Bray

17-19 Fall Creek, Satellite 13

IBA Forging Day with Joel Sanderson

Saturday, April 21, 2018
393 Clizbe Road, Quincy, Michigan

- 9:30 The engine will be started
- 10:00 Tour of the shop, briefly discussing the engine room and the 21 line driven machines in the main shop.
- 10:30 Class/demo will begin. Morning subjects will include:
The Toggle Press ("Punch Press")
- Overview and difference between press and hammer and the advantages of each
 - Demonstration showing some of the following:
texturing flat bars, texturing washers, off-setting, heading, raising, embossing, sheering, slotting, punching
 - Discussion will include power requirements and calculation, die making
- 1:00 The engine will be shut down. We will break for lunch until 2:00. There is a casual restaurant about 3 miles from the shop we can order from and have someone pick up our meals. I will stay at the shop.
- 2:00 The engine will be started. Anyone who missed the morning start-up may want to see that.
- 2:30 After the engine has warmed up and questions have been answered, afternoon class will begin. Afternoon subjects will include:
- Finishing up anything not covered in the morning and answering questions anyone has about the morning.
 - Power hammer demonstrations on the 100 pound Hackney. Focus will be tools for hammers, including (time permitting):
making a bottom swage/bending die, making a flatter, making a straight swage, discussing its three main areas: drawing area, shaping area, kiss area
making a ball swage, discussing three ways: open forging, forging around a master, drilling drifts
 - Discussion and demonstration will include the use and theory of:
spring tools and how they are proportioned, choice of alloys for tools, volume calculations
 - General demonstrations may include: drifting and punching, texturing, bending, scrolling
- 5:30 The shaper (If there is time)
- Demonstration showing it's general usefulness for both machining and hot work.
 - Demonstration showing some of the hot working dies I have made for it.
- 6:30 Demonstration/class will conclude. I will stay in the shop until 8:00 for anyone who wants to stay later.
- 7:30 The engine will be shut down.
- 8:00 The doors will be closed.

Please respect the following:

- No long coats, long dresses, long ties or long scarves may be worn inside the shop.
 - No one is allowed on the engine room floor (off the overlook) unless Joel is with them--and then only two people at a time.
 - No one is allowed on the catwalk at any time.
 - Smoking is allowed only inside the blacksmith shop. Smoking is not allowed outside the shop or in the engine house. Anyone seen smoking inside or near a barn will be asked to leave the property immediately.
 - Safety glasses must be worn in the shop. Please bring your own safety glasses and hearing protection.
 - Please do not engage or disengage any machine without permission.
- I encourage everyone to bring a clipboard and paper for taking notes.
 - Pictures and videos are welcome. Please include Joel's name on anything posted online.
 - Please use the south driveway and park on the main lawn north of the drive.

Joel Sanderson
(517)617-5908

Four Corner Saw Tooth Trammel
Grease Light
Notes from a class that I took from
Jerry Darnell
By Ron Gill

Saw Tooth Trammel
 24"-3/16"x 3/4"

Put a center mark 2 1/2"
 from one end

On a sharp edge of the anvil,
 drive down 3/4 of the way thru

Step to next ramp at the end of
 first ramp. About 1-1 1/2", and
 drive down 3/4 way
 do two and then shape back to
 square.

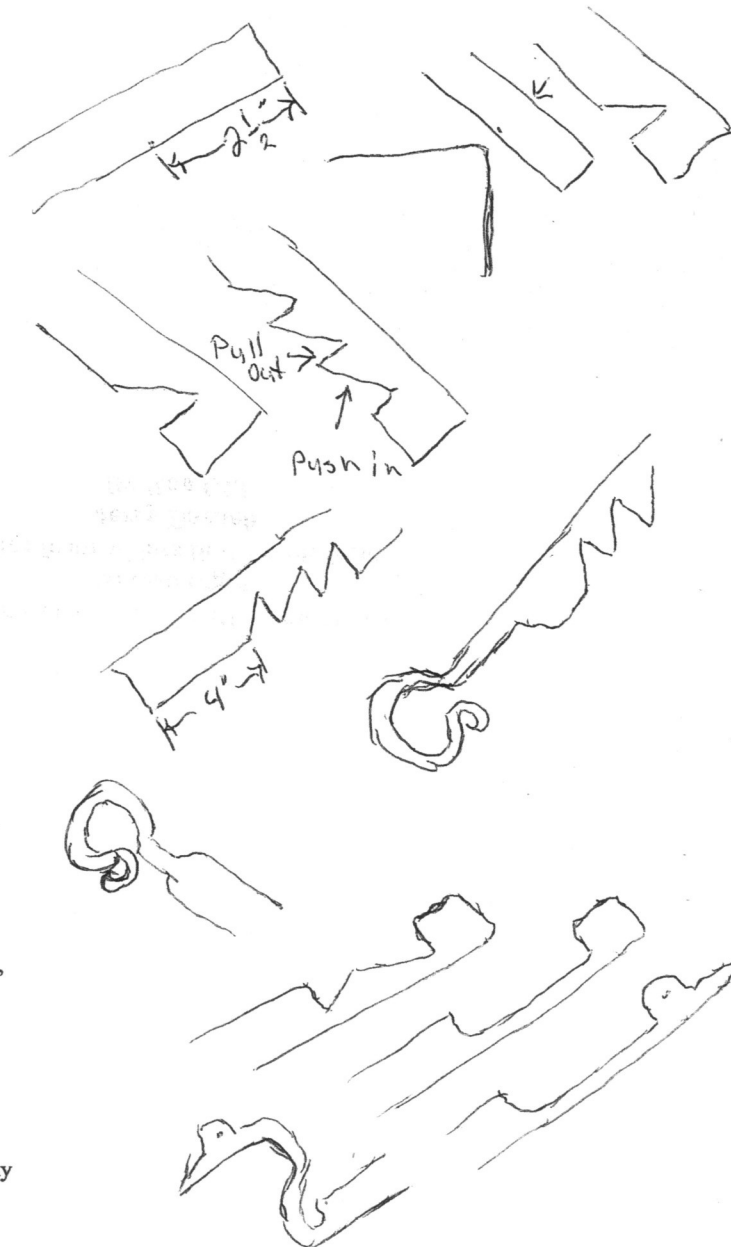
Leave 4" of material on the end.
 Draw a long taper into a hook.

Slide
 24"-3/16" x 3/4"

Draw out and make a hook
 on one end.

On the other end, draw out to 3/16"
 round, leave about 1/2" on the end
 to make a bird head

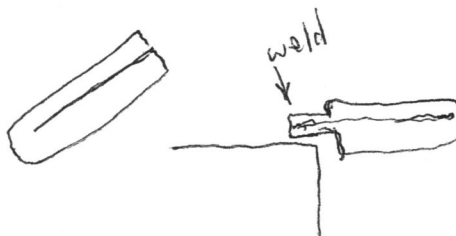
Bend this over horn to close up to
 form a loop, do not close all the way
 yet.



Keeper

4 1/2" - 3/16" x 1/2"

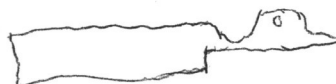
Fold in half, make sure ends are even.



Weld the end about 3/4" back hammer half on half off edge of anvil.



Drive 1 1/4" x 3/16" stock into center to open up slot for slide and trammel, adjust to make sure they slide freely.

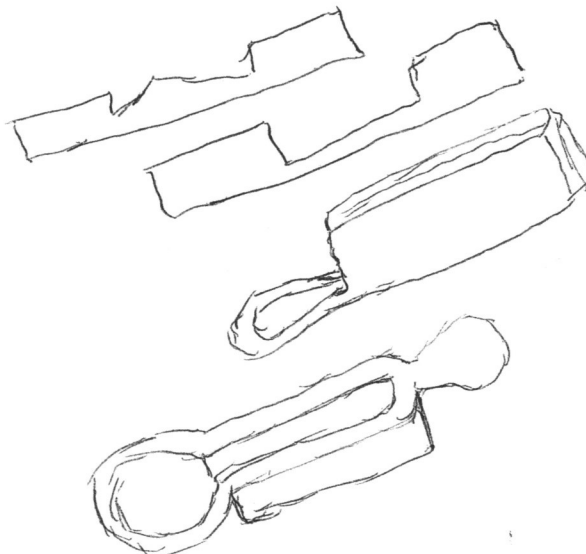


Forge bird head on end of piece.

Catch

4 1/2" - 3/16" x 1/2"

Thin the middle 1" to 3/16" round



Fold, make sure ends are even. Weld 3/4" of the end.

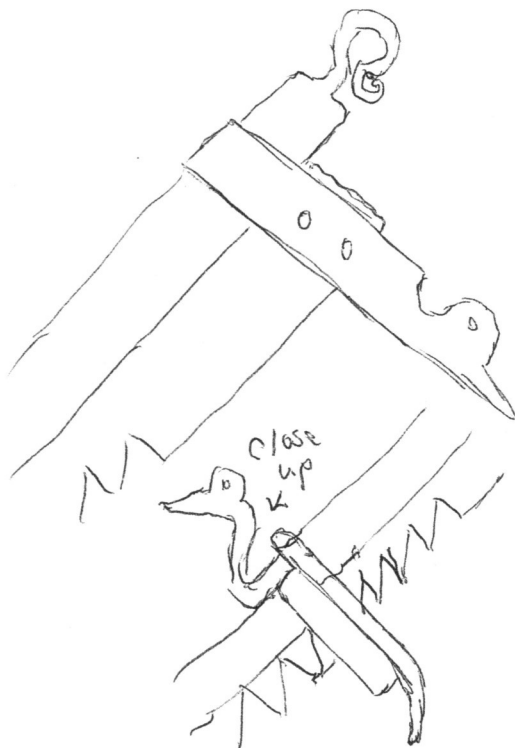
Flatten end and curl.

Drive 1 1/4" x 3/16" stock in center to open up for slot for slide and trammel.

Assembly

Slide the trammel and slide onto the keeper, mark and drill two 1/8" holes in trammel and keeper. Make sure slide moves freely. Rivet the keeper to the trammel.

Put the catch on the slide and heat and close around the catch. Straighten the bird head so that it will be level.

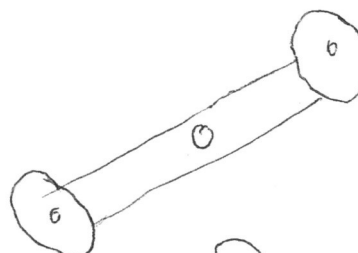


Grease lite

Bail

6 1/2" - 1/8" x 1/2"

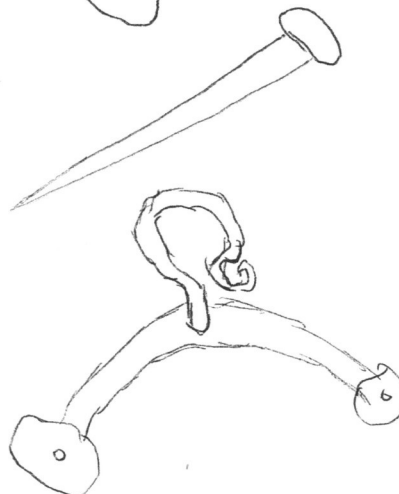
Flatten both ends into a penny foot. Drill 1/8" hole in center of each end. Mark center and drill 1/4" hole.



Hook

4" of 1/4" round

Draw out to a long taper point. Form a head on the other end Of this.

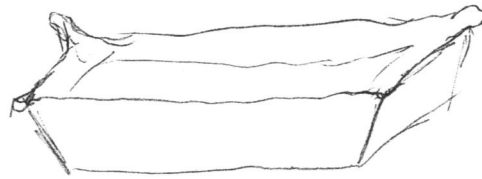


Slip the rod through the 1/4" hole in the bail. Shape into a hook.

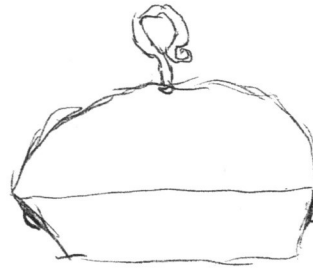
Pan

5" square of 14 gage

Form the side of pan by bending up the four sides $\frac{3}{4}$ " up, forming the corners into rounded edges.



Rivet the bail onto the pan.



Connect the pan to the bottom hook of the trammel.



Finish with bees wax





The *FORGE FIRE*

Newsletter of the
Indiana Blacksmithing Association, Inc.

Farrel Wells *Membership Secretary*

8235 E 499 S

Dunkirk, IN 47336-8807

First Class Mail

Address Correction Requested
If Undeliverable return to
sender

April 21 Hammer In

Sanderson Iron

10AM—6 PM

344 Maple Rd, Quincy, MI 49082

Directions: Take I69 north to US 12 exit. Take US12 east for 7.5 miles and turn right onto Maple Road. The shop is about 1.1 miles on the right.

Lunch will be a local restaurant

May 19 Hammer In

Priddy Farm

7052 South Orchard Lane, Owensburg, IN

Directions: On Highway 58 directly across from the town of Owensburg turn South on Orchard Lane. Stay on Orchard Lane until you see large wood sign stating Priddy Farm, turn right in drive and go to shop.

On Highway 45 go south until you are at the junction of 45/58 Crane Navy Base. Turn left (east) go to second county road, Orchard Lane and turn right. Follow Orchard Lane until you see Large wooden sign that says Priddy Farm, turn right in drive and go to shop.

Pitch In Lunch, bring a chair