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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.

The Indiana Blacksmithing Association, Inc., its staff, officers, directors, members, and hosts and the *Forge Fire*, specifically disclaim any responsibility or liability for damages or injuries as a result of any construction, design, use, manufacture or other activity undertaken as a result of the use, or application of, information contained in any articles in the *Forge Fire*. The Indiana Blacksmithing Association, Inc. And the *Forge Fire* assumes no responsibility or liability for the accuracy, fitness, proper design, safety, or safe use of any information contained in the *Forge Fire*.

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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.

No September Hammer In

**Check IBA Facebook site for up
to date news about hammer ins**



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THROUGH GRILLE

Editors Message

Membership Dues:

My records show that we have 98 members who have not renewed their dues. They need to check the label on their next newsletter for their expiration date. Those who receive their newsletter via email should check their membership card. The ratio is about 50/50 mail and email.

Thanks, Farrel Wells

As with the past few months, I do not have any news of IBA statewide events. The pandemic situation has not changed significantly. Social distancing and masks are still the norm. The message remains the same: stay safe and protect others by following the simple rules.

I did not receive any satellite group updates this month. I used some of the space reserved for satellite news to share a message from Jerry Boyd at ABANA. Take a read on page 4.

Fulton County Historical Society is proceeding with the annual Trail of Courage festival. The Sutton-Terock Memorial Blacksmith Shop will be open. If you feel comfortable attending an outdoor festival, this might be the event for you. Details are on the back cover.



Dates to
Remember

TBD

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
 Tim Pearson (574) 298-8595

2) Jennings County Historical Society Blacksmith Shop

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

3) Wabash Valley Blacksmith Shop

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

4) Fall Creek Blacksmith Shop

Meet: 4th Saturday at 9 AM
 Contacts: Gary Phillips (260) 251-4670

5) Maumee Valley Blacksmiths

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

6) St. Joe Valley Forgers

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

7) Rocky Forge Blacksmith Guild

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

8) Meteorite Mashers

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

9) Whitewater Valley Blacksmiths

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

10) Bunkum Valley Metalsmiths

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

11) Covered Bridge Blacksmith Guild

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

12) Snake Road Forge

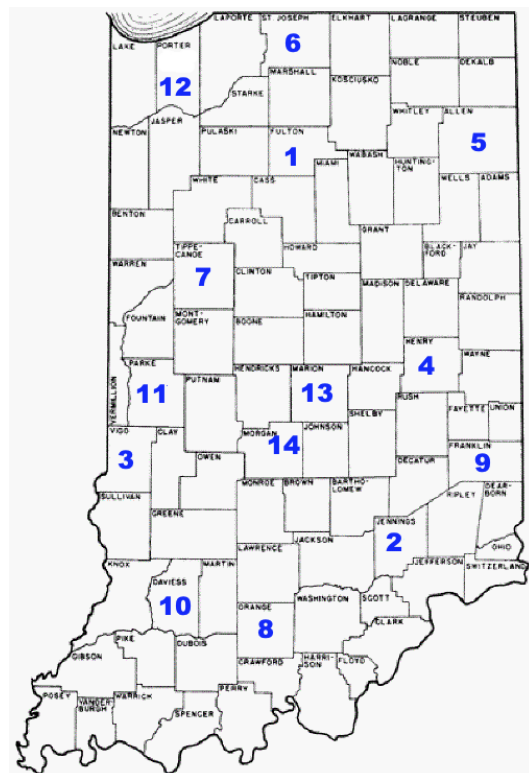
Meet: 1st Saturday
 Contact: Rod Marvel (219) 241-0628

13) Satellite 13

Meet: 4th Saturday
 Contact: Darrin Burch (317) 607-3170
 Doug Wilson (317) 439-7684

14) Old Town Waverly Blacksmiths

Meet: 2nd Saturday
 Contacts: Mike Lyvers (317-728-5771),
 Kenny Hale (765-318-3390),
 Mike Jackson (317-509-9115).



No satellite reports received this month.

Brad Weaver, Brett Luker and Bill Kendrick updated wiring in the Jennings County Historical Society Blacksmith Shop. A new sub panel was installed to provide 110V circuits and lights in the back lean to section of the shop. The lean to houses a variety of useful tools that are best operated away from others (chop saw, bench grinder, drill). New wiring and switch were installed for the 50 lb power hammer. The new switch location eliminates the need to reach around the toggle arms. The changes make the shop brighter and safer.

Artist-Blacksmith's Association of North America

259 Muddy Fork Road

Jonesborough, TN 37659 USA

August 2020

Greetings from the Artist-Blacksmith's Association of North America —

I'm hoping all is well and you are able to get work done as we enter the difficult days, for a blacksmith, in an already hot shop. I apologize for getting the newsletter out so late in the month, but it has been quiet an ordeal with the email provider. Thanks to the Central Office for helping with this.

Anvil's Ring, Hammer's Blow Ask for Topics:

Perhaps your club, organization or even an individual member is doing something special in your community to promote our craft as blacksmiths, ABANA would like to highlight it in one of our quarterly publications. If you have something of interest please contact Anvil's Ring editor Mark Kochan areditor@abana.org or Hammer's Blow editor Nathan Griffith hbeditor@abana.org

Position Available: (Please share via your Facebook group/page, email and newsletter)

Executive Director of ABANA

The Artist-Blacksmith's Association of North America, Inc. seeks a highly-qualified Executive Director responsible for the day-to-day operation of ABANA's permanent headquarters in Johnstown, Pennsylvania. The Executive Director will report to the ABANA Board of Directors. Responsibilities include furthering ABANA's mission by administering programs, fund raising, marketing, community outreach, strategic planning, and other new initiatives such as creating at the headquarters a gallery of forged metal art, a retail store, a library of ABANA documents, and a repository of legacy tools and blacksmith work.

Candidates interested in this position are invited to provide a 200-word statement that sets out their vision for ABANA's mission, growth and accomplishment. Please transmit this statement along with salary requirements in a one-page letter of intent to president@abana.org. Qualified candidates will receive the full position description and an invitation to formally apply.

ABANA does not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. ABANA will take affirmative action to ensure that applicants and employees are treated fairly and without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin.

Controlling Our Heat:

Everyone knows the difficulties of working in the August heat, the need to stay hydrated and cooling off when we get too hot is paramount. Don't forget to manage the extreme temperatures we deal with every day and be vigilant protecting ourselves and property from a disastrous fire. I would encourage you to keep a properly operating and inspected fire extinguisher in the work area. A small expense could save a huge loss. Even though we comfortably negotiate the task of a blacksmith, we work in a dangerous environment, please be careful.

Please use any information from this newsletter in your club publications.

Sincerely,
Jerry Boyd
ABANA Affiliates Committee Chair
325-207-8253

The Eight Bar Pass Through Grille (aka "Devil's Grille")

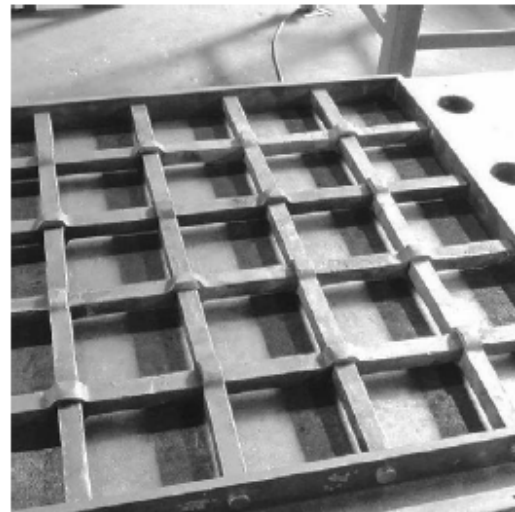
For a long time I have been curious about how alternating pass through grilles of more than six bars are put together. With six bars, it seems trivial since you can slide the bars onto each other. But after six, it doesn't seem so obvious. At least not to me. Please note that these are the grilles where every pass through alternates on each bar. At first glance, it looks as if there would be no way to slide all the bars together.

In the July 2020 issue of "The Anvil's Horn" (Arizona Artist Blacksmith Association newsletter) shared with ABANA affiliates, Editor Bill Ganoe included photos of such a grille demonstrated by Juan Ocampo. It happened to be demonstrated during Bill's recent trip to Buenos Aires, Argentina. When I saw the issue, I thought "This is my chance!" "I will ask Bill how they did it!" Unfortunately for me, Bill was also busy demonstrating and was not even in the vicinity of the demo at the time. Back to Square one.

The Anvil's Horn

A Publication of the Arizona Artist Blacksmith Association

Issue No. 205 July 2020



The Impossible Grille, aka The Devil's Grille
More on page 6.
(Photo: Juan Ocampo)

The July 2020 Issue of the Anvil's Horn

Shortly after Bill and I discussed this topic, I stumbled onto an online reference to John Taylor demonstrating one of these grilles. Those of you who are more active than me on Facebook may have already seen it. John was scheduled to do some demonstrating at the 2020 ABANA conference which was ultimately canceled. I contacted John by e-mail and he immediately gave permission to share his article in our newsletter and graciously sent a PDF copy to reprint. In his article, John gives credit to Juan Ocampo for inspiration.

In his article, John gives dimensions for a specific size of grille. But they can easily be scaled up or down. To some of you, this may be old news. But it was a revelation to me and solved the mystery. Thanks to everyone involved including Bill Ganoe for kicking off the process that ended with John Taylor's article reprint that follows!

Now the next question: Can you use a similar method for more than eight bars???

- Editor



Jesús Morcy (l) and Juan Ocampo, both from Madrid, Spain, start work on an Impossible Grille.



Partially completed grille
(photo: Peter Sevin)

Photos of Juan Ocampo and the Buenos Aires Demo Grille from the Anvil's Horn

The John Taylor 8 bar Grille- Part One

Write up by John Taylor and Jeff Jarrett

Twice in February, John Taylor came to the city to teach us to grille!

1) We started with 1/2" square stock, 2 feet long, 8 of them. They are numbered, for clarity??

2) Mark the center of each piece (#1-8) with chalk or silver pencil. Center punch 6 15/16" to the right and 2 5/16" to the left of your center chalk mark on the front and back of pieces #1-#4 in the center of the stock face (Drawings are not to scale!). **Do not** center punch the mark in the middle of your pieces of stock. Set aside 4 pieces.



3) Using a 1/2" punch splitter, create the slit at the center punch mark closest to your center pencil mark on pieces #1-4. Keep the slit centered and perpendicular to the surface of the face as you are working. Go most of the way through one side then the rest of the way from the other side. (that's why you mark both faces of your stock). Only one slit per piece of stock at this point.



4) Using a 1/2" round drift, open the slit, working from both sides until the opening is fully 1/2" open. If you are well centered with your slit and your use even heat while drifting you should end up with a hole with evenly thick metal ring around it.

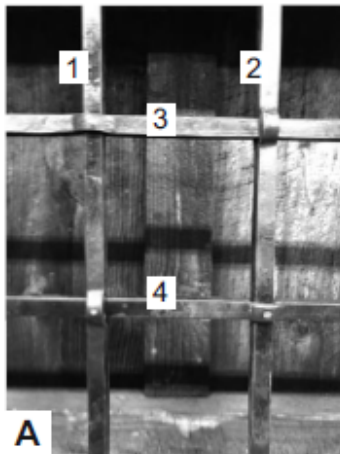
If you are off center apply more heat to the thicker/less open side of your opening when drifting.

NOTE A: If you do not have the opening fully 1/2" open, when you use the 1/2" square drift during the next step, the corners will cut into the ring of metal around your drifted hole and thin it.

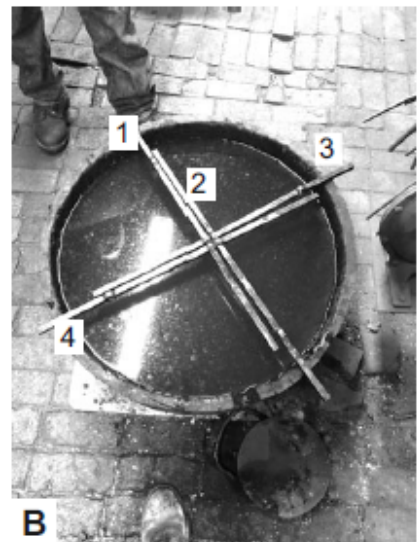
NOTE B: The splitter and drift must be the same size as each other and as the stock you wish to pass through the opening. If the splitter is too small the final drift will lengthen your bar. If it is too large the final drift will shorten your bar.



5) Using a 1/2" square drift, reshape your round opening to a square one. Keep the flat sides of your drift square with your stock. Repeat steps 3-5 on three more pieces.



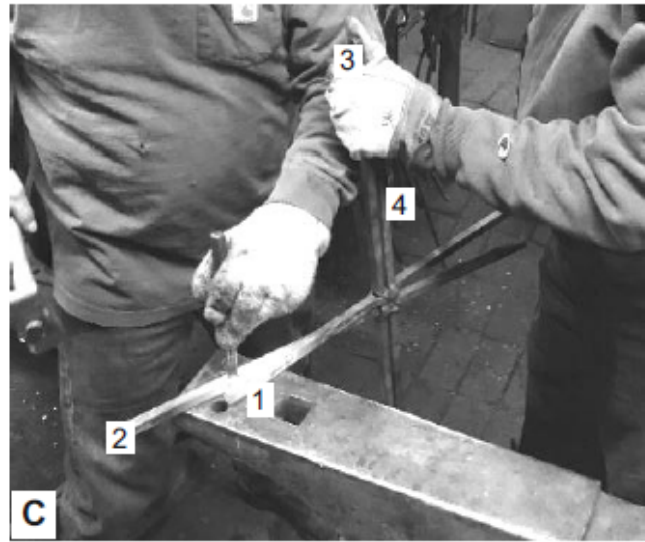
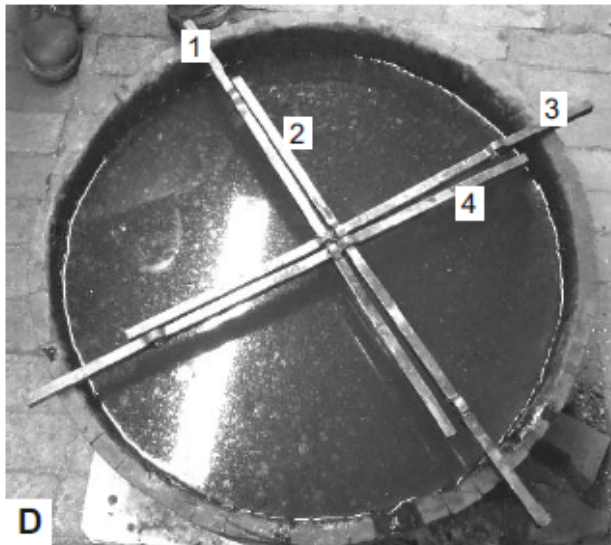
6) Slide the pieces together as shown on the photo A, and continue to slide them all the way together as seen in photo B. Wire them together loosely, temporarily, so the pieces don't slide around for the next steps but loose enough to allow you access to the center punched spot on the other side of the center mark. The completed results of step 7 are also shown in photo B.



7) Slit and drift the remaining holes on these initial 4 pieces at the center punch marks from step 2. See photo C.

NOTE C: All of your slit and drift is in the same direction as the one you did first in each piece.

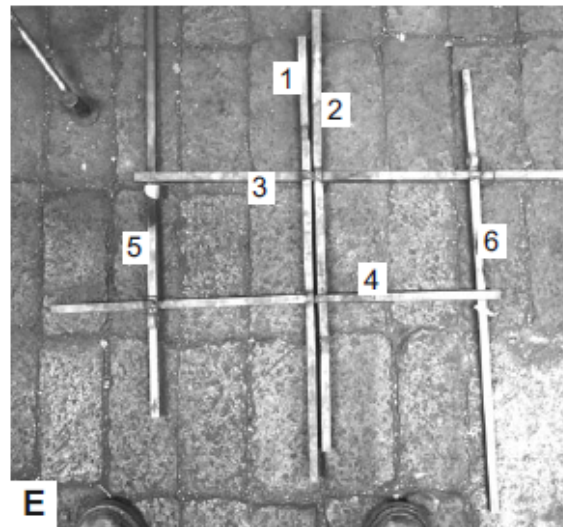
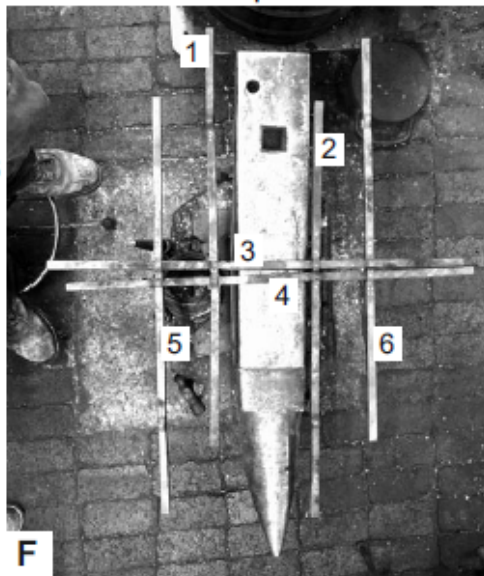
NOTE D: The enlargement caused by step 7 will 'trap' pieces # 1-4, so they will not come apart. See picture below.



8) Retrieve 2 of the pieces that you set aside in step 2. Repeat steps 3-5 at the center punch mark farthest from the center of each piece. These are now pieces #s 5 and 6.

9) Slide the long/undrifted end of piece # 5 through the open hole in piece # 4. Slide the long/undrifted end of piece # 6 in the open hole in piece # 3. See photo E.

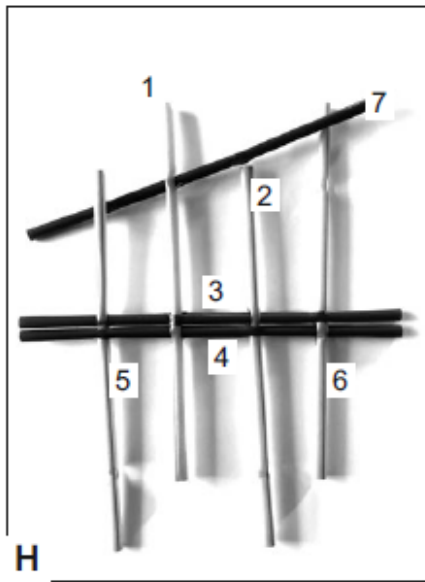
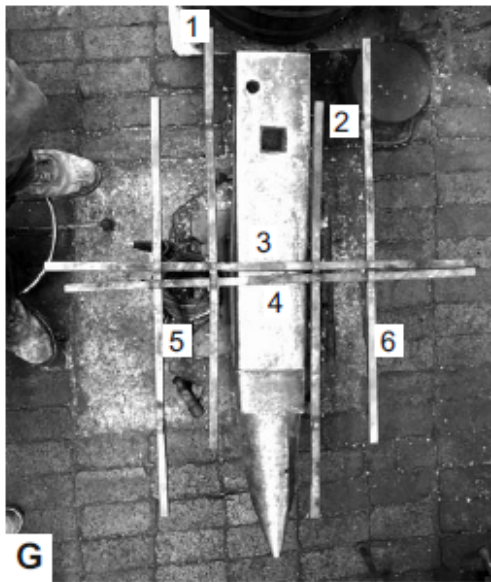
10) Repeat steps 3-5 at the remaining punch mark on the pieces # 5 and # 6. Pay attention to the orientation of the drifted hole (see **NOTE C** above). Configure the pieces as in the photo E, and put the end of piece # 3 through the second hole in piece # 5 and piece # 4 into the second hole in piece # 6. The work should now look like photo F (with some sliding of the pieces, # 5 toward # 1 and # 6 toward # 2)



11) Retrieve your last two pieces of stock set aside in step two and perform steps 3-5 at the center mark nearest the center line. These are now pieces # 7 and # 8.

For lack of actual photos, I will revert to the colored straws that John used to show how to get the order of the next steps correct. The straws are labeled identically to the pieces of steel in photo G. It is hard to take notes, take pictures, and do the task all at the same time!

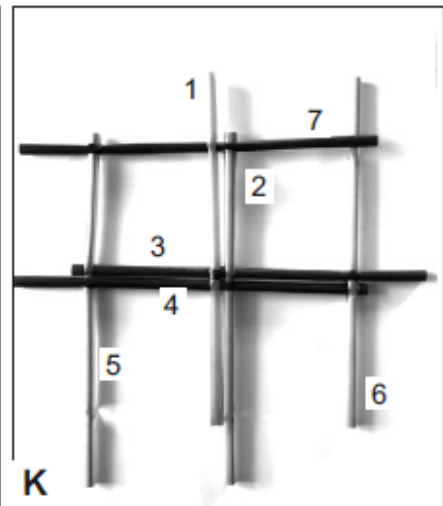
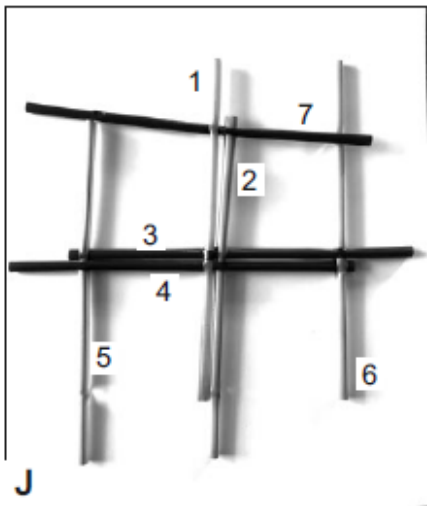
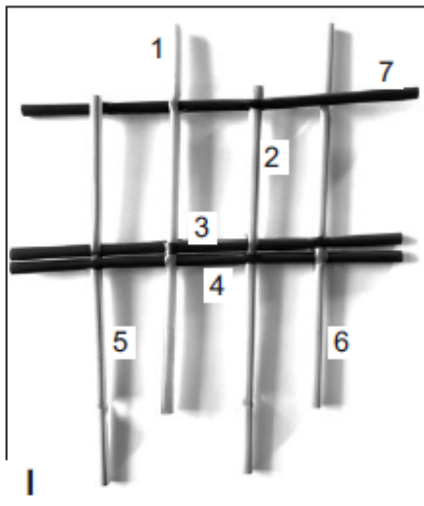
Credit for using the straws goes to Kelly Kring of Texas.



12) Pass the undrifted/ long end of piece # 7 through # 1. (photo H)

13) Push # 2 into the drifted hole of # 7. (photo I)

14) Slide # 1 and # 2 together to make drifting the remaining hole in # 7 easier. Slit and drift remaining hole in piece # 7 (photo J) and push # 5 into this hole (photo K).

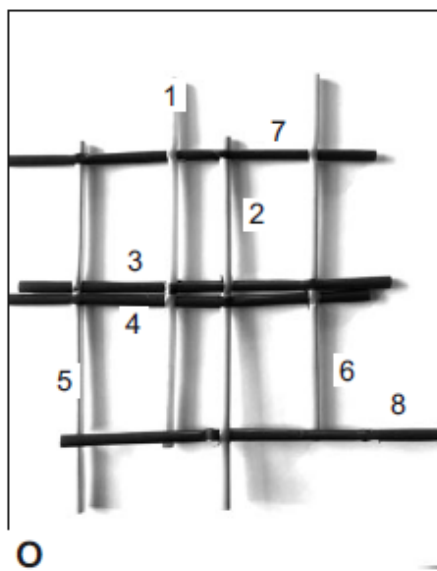
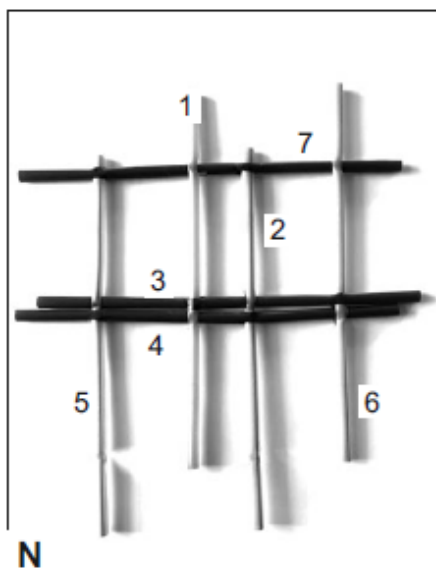
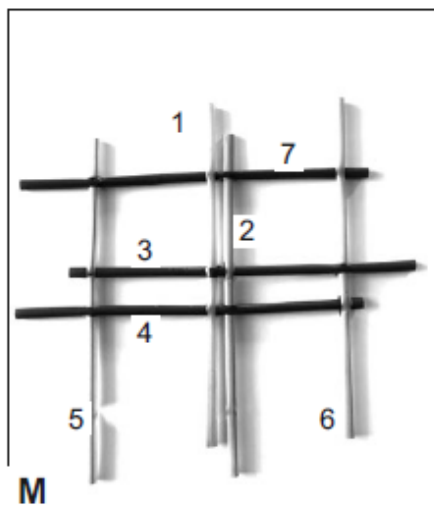
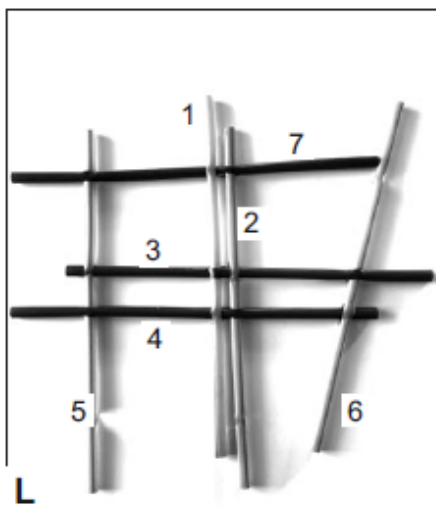


John gives credit for his taking on the challenge of a grille to Juan O'Campo of Spain.

While we were serious about the task at hand, there was good humor and fun had both days...

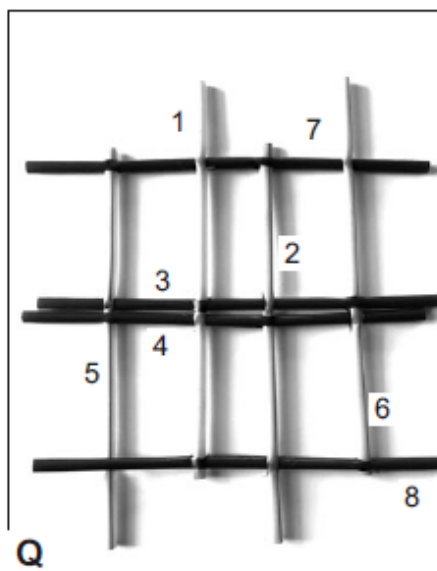
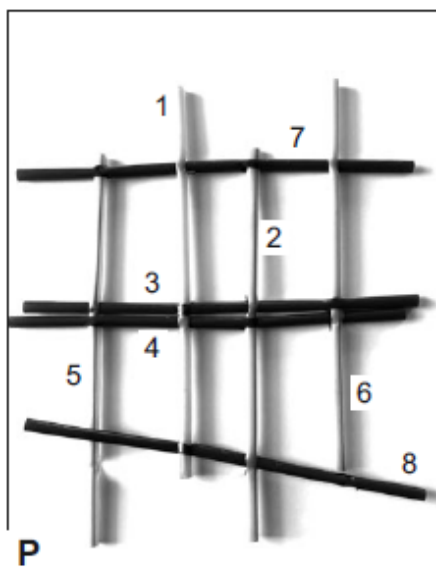
Stay tuned!

15) Separate parts # 3 and # 4 slightly to allow movement of part # 6 so it tilts away from # 7 enough to allow you to put # 7 in the hole in # 6.
(photos L and M)

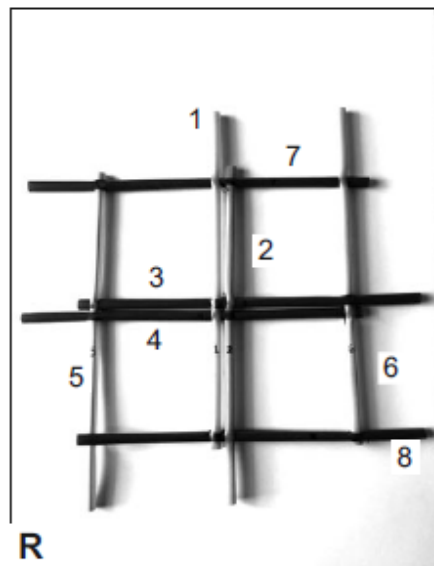


16) Push parts # 1 and # 2 together and put part # 8 through part # 2 with the long/undrifted end toward part # 6.

Slit and drift part # 8 at the remaining center punch mark.
(photos N and O)



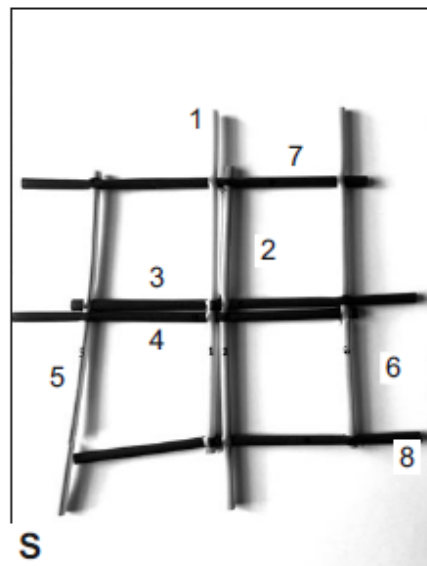
17) Push # 6 into the hole in # 8.
(photos P and Q)



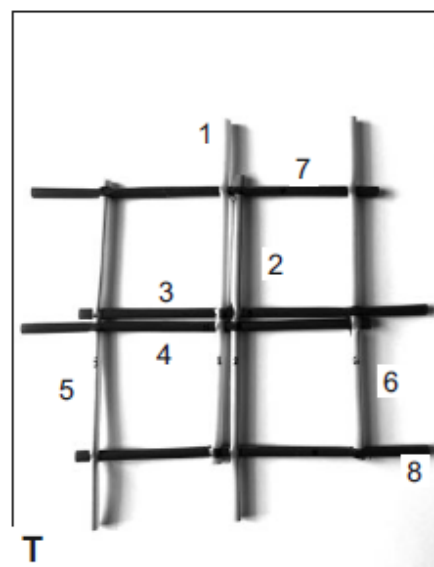
R

18) Push # 1 and 2 together.
(photo R)

19) Bend (hot) part # 5 away
from part # 8 just enough to
push # 8 through # 5.
(photo S)



S

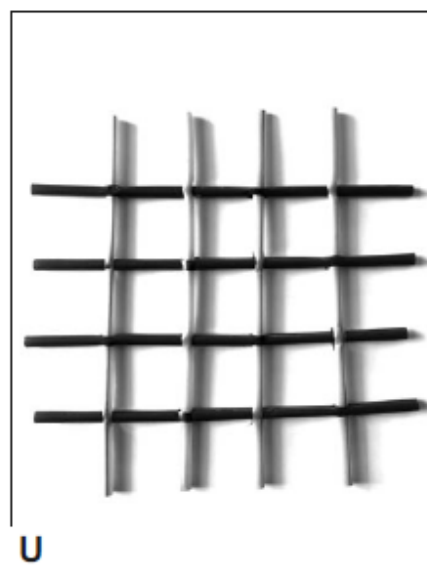


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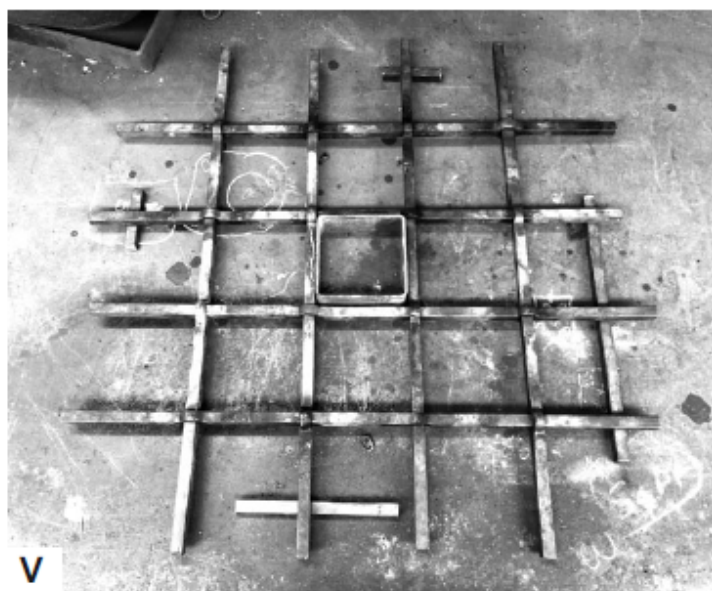
20) Straighten # 5.
(photo T)

21) Adjust pieces so that
squares are the same
dimensions and the grille
is flat. We used a piece of 4
inch square tubing and 1/2
inch scrap to hold the pieces
off the table to help with this.
(photo U and V)

**U too,
Can do!!**



U



V

The ring and assembly will
follow as **PART TWO** of
this project In the next
newsletter!

Here is the good humor and fun I promised you...

There was a whole lotta driftin' goin' on!



Steve, John, Jack, Herb, Bill and I worked and wisdom abounded.

"Every story needs a bad example" SG

"Everything I hit gets upset." SG



It aint what it is, it's what you can make out of it" JT

"The secret to success is what you learn after you know it all" SG

I guess there is little doubt about who had the most quotes that day!!



Thanks John for sharing and helping me write this up!!

Thank you to John Taylor for sending this article and giving us permission to print. And thanks to both John and Jeff Jarrett for a nice demo of a not so easy to reverse engineer project! -Editor



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

Trail of Courage Living History Festival Sept. 19-20

Trail of Courage Living History Festival will be Sept. 19-20, 2020. Don't be scared off. This is an outdoor event. **Wear a mask and practice social distance** if you wish. But do come and learn about frontier Indiana: 2 stages with period dances & music, Potawatomi history. Also Indian dances, Mountain Man tug-of-war, how to fire a cannon, muzzle-loading shooting contests, canoe rides. So educational that many school buses bring students. Enjoy foods cooked over wood fires: buffalo burgers, big kettles of soup and popcorn, Scottish pies, fudge, ice cream and apple dumplings. Open Sat. 10 a.m. to 6 p.m., Sun. 10 a.m. to 4 p.m. Admission charged. See www.fultoncountyhistory.org. Phone 574-223-4436. Email fchs@rtcol.com. Fulton County Historical Society, 37 E 375 N, Rochester IN 46975. Located at Fulton County Museum and white round barn which are open free during festival, located beside U.S. 31 four miles north of Rochester, on 35 acres on north side of Tippecanoe River. Free parking, free rides on trams pulled by tractors.