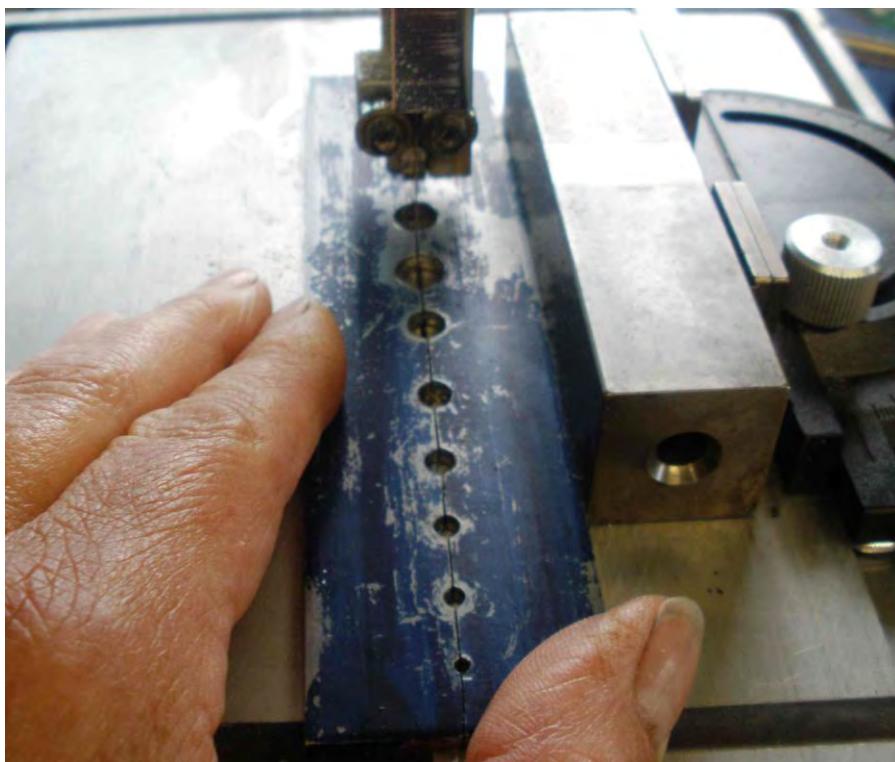


Newsletter of the Horological Tool Chapter #173 of the NAWCC

Tool Enthusiasts' Round-Up

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and The Silver Dollar Regional Tool Exhibit
Upcoming Chapter Activities and Classified Ads



Sawing steel to build a split stake for pinion repair

Winter 2010

No. 7

The Horological Tool Chapter of NAWCC Der

The Tool Enthusiasts' Round-Up is the newsletter of the Horological Tool Chapter #173 of the National Association of Watch and Clock Collectors Inc., a non-profit educational organization.

The annual chapter dues of \$10 will ensure that members receive the newsletter and are included in the Membership Directory when it is published. Members are also entitled to one classified ad in each issue. If you are interested in joining this chapter, which will meet at various large regionals and also at the National Convention each year, please send your annual dues to the Chapter Secretary/Treasurer.

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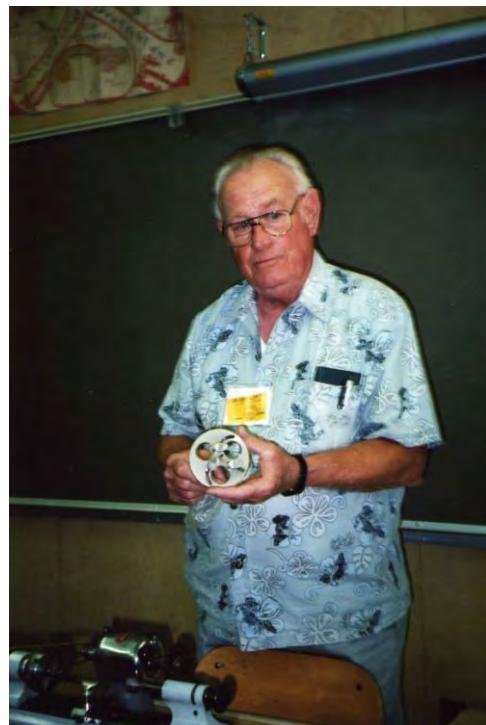
Wanted
Deckel, Aciera, Rivett, Schaublin, Lorch, Hardinge, Levin, lathe or mill accessories wanted. Will trade, or sell if I have duplicates. Mark Fulmer
Markusful@hotmail.com

Derbyshire Elect model lathe attachments- pivot polisher, screw cutting attachment, roller file rest, and screw feed tailstock - will trade - for sale: tools from the Elgin watch factory, lathes, grinders, millers, etc...some made by American Watch Tool. J. Dill, 2117 22nd St. Road, Greeley, Co. 80634, Tel: 970-353-8561.

For Sale

NOW AVAILABLE ONCE AGAIN "THE WATCHMAKERS STAKING TOOL" BY PERKINS & LUCCINA, \$35.00 Postpaid, send remittance to, Ronald G. Bechler, 726 Royal Glen Drive, San Jose, CA 95133-1446, (408) 926-3212

American Watch Tool lathe, length of bed 28", swing is 7", Includes compound slide and one 3WO Hardinge collet. Chuck in tailstock not included. \$450. Deena Mack, 644 Geise Rd. Attica, NY 14011, 585-591-1343, email dmack18@rochester.rr.com.



Ron Bechler shows off his Levin 8 mm lathe at a Chapter 107 Meeting

The Task, The Tool, The Problem, and My Solution (A Split Stake For Pinion Repair)

My story is titled: The task, the tool, the problem and my solution. Before we begin, all engineers and machinists reading this take note: I am neither!! The end result is not perfect but it works for me.



Figure 1. The commercially available split stake for pinion repair.

The **task** at hand was replacing the worn wires in a lantern pinion. As I commenced, I became frustrated at not having the proper **tool** to do the job, in this case, a split stake. Enough is enough I thought, as I grabbed a supply catalog. I soon realized the **problem**, figure 1. Egad, almost a hundred bucks for a tool that has no intricate parts and is in fact quite a simple looking device. Now I may not be a machinist, but I am pig-headed, which brings us to my **solution**. I looked at that catalog, and the wheels started turning. Would it be so hard to make one myself?

I began by collecting some pieces of steel to work with, figure 2. Then I coated them with lay-out dye and marked the location of different holes using the catalog description as a guide to sizes. However I soon realized the steel was much too hard to make a dent in, so I had to back up and start over by annealing my material. After 3 attempts at that, I gave in and accepted the fact that this steel was not going to soften enough to use. After a trip to my big box hardware store, I returned with a 4' piece of weldable steel, 1/8" by 1 1/2". Another go at the lay-out table, and I was in business, or so I thought. Figure 3 shows the layout and one of the pieces of steel that proved to be just too hard. Looking through my drill bits, I was missing a few of the sizes needed, and in trying to drill the annealed steel, had buggered up my 1/4" bit. Another delay as I placed an order to an online tool outfit for the needed sizes. Sure, I spent \$50 on bits, but I will have them for other projects.

My plan was to center and drill the holes in my plate, then cut it in half with my variable speed metal cutting band saw. (A splurge I allowed myself 3 Christmas' ago).



Figure 2. Steel pieces collected for the project.



Figure 3. Layout of the holes using die.

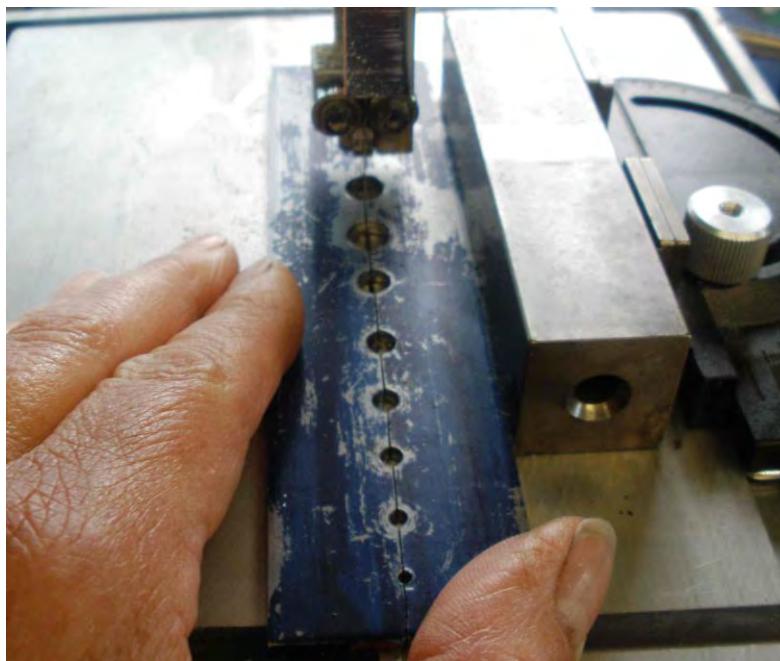


Figure 4. Using a band saw to split the stake.

Figure 4 shows the stake under construction with holes drilled, and now cutting the plate in two following the center line. My next hurdle was deciding how to use the stake. While the catalog offered a split stake that was used in a vice, I could not see how that could be accomplished. I needed a little table to hold the 2 pieces of steel. I consulted with my neighborhood welding shop. The guy there, who is amused by the diminutive size of my projects, quickly fixed me up with a table, Figures 5, 6, and 7. It has an opening for the clock wheel to drop through. He tacked tabs on the table top to keep the stake pieces in place.

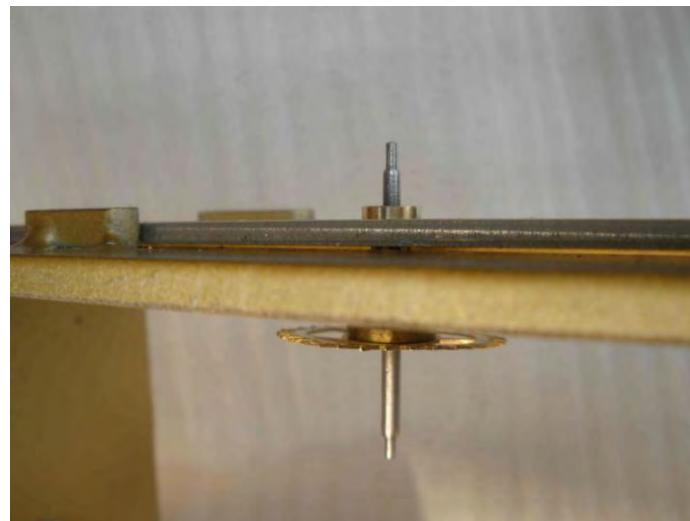


Figure 5. Lantern pinion hanging in the split stake.



Figure 6. View from the bottom looking up.

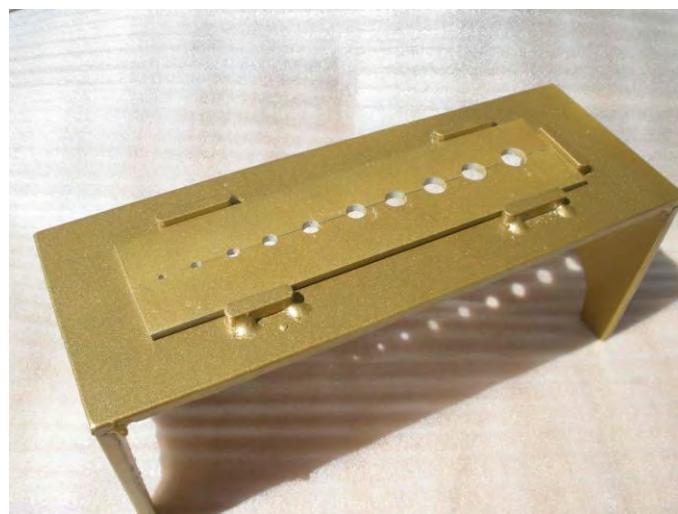


Figure 7. A welcome addition to my shop.

Nice! I brought it home and primed and painted it before rust could set in. The finished product has 8 holes in sizes 3/32" to 11/32". I plan to make a second set of interchangeable plates with holes up to 1/2". With the tool finally completed, I was able to finish my repair. The clock is now running perfectly.

More On OBAMA

Price Russ asked if members knew anything about the OBAMA pivot lathe he saw in a 20th century tool catalogue (see Tool Enthusiast's Round-Up, Summer 2010). Price also discovered he owned an OBAMA oiler, illustrated in the same catalogue. Ron Bechler reports that he has an OBAMA jewel gauge. One tool is marked with the country of origin "Germany" rather than "West Germany" suggesting that OBAMA may have been an active maker of horological tools before WWII.

**OBAMA OILERS**

The OBAMA is a precision oiler with 10 degree scale for regulating the exact quantity of oil for lubricating watches and similar instruments.

Simple and fast handling. By turning the regulator scale, the required quantity of oil enters the tube. Then the button is pushed, and the oiler is gently brought in contact with spot to be lubricated. When the button is released, the oiler automatically ejects the required amount of oil.

Reliability. The ejection of the oil is effected only at the return of the button and not when it is pushed. This means that the ejection of oil always occurs under the same conditions, and does not depend on manual skill. Moreover, the Obama allows an exact quantity of ejected oil by turning the regulator scale within a range of 10 degrees. Turning the regulator scale one degree effects an increase of 30%.

Protection from dust and dirt. The oil is protected in the transparent oil container which is only unscrewed for filling.

Each Obama oiler has a protecting stand so it is always at hand and ready for use.

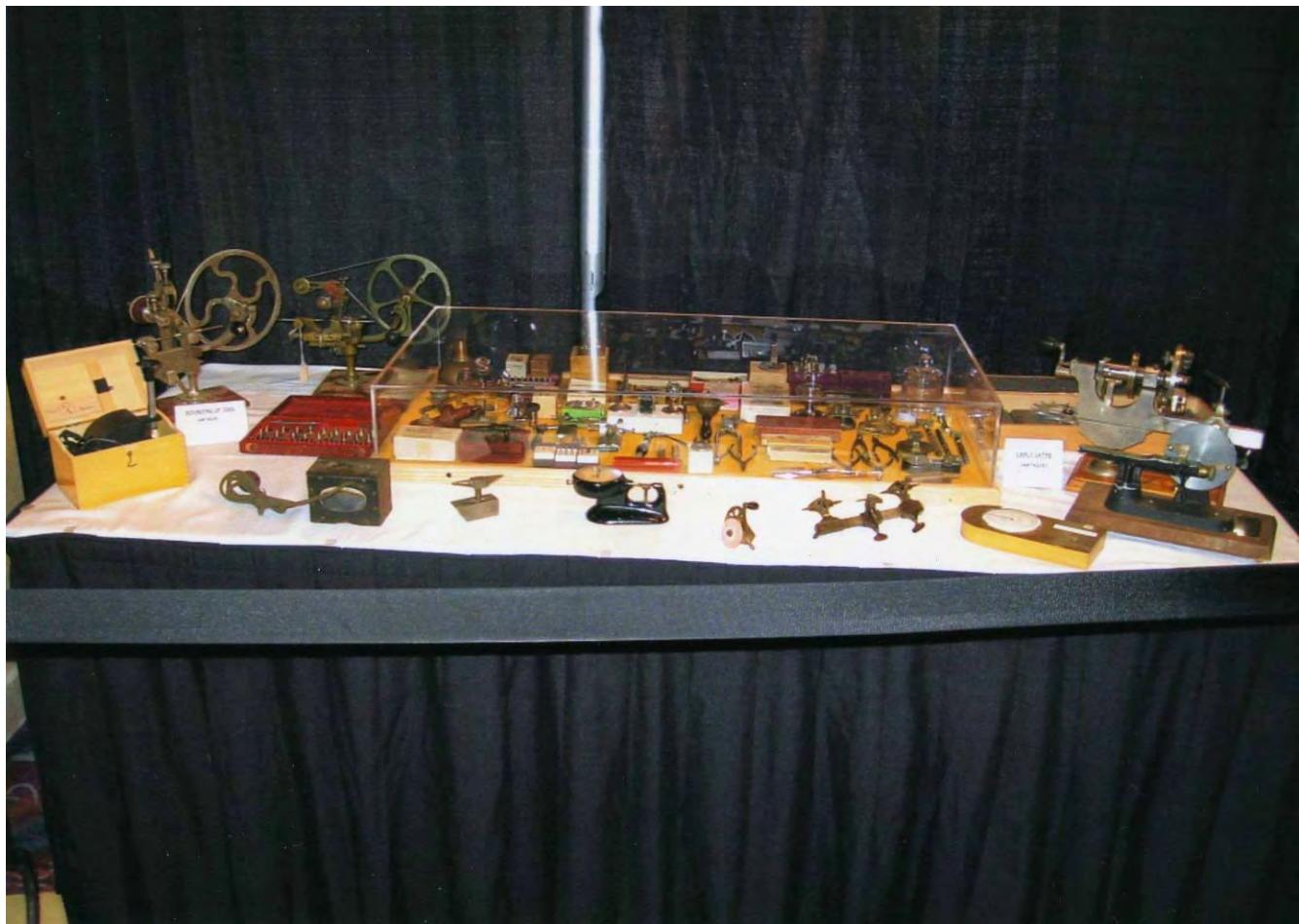


No.	Size	For Lubricating	Price
34-310	0.15 mm	Incabloc (with lengthened needle point 0.05 mm)....	\$8.25
34-315	0.15 mm	Small bracelet watches	7.25
34-320	0.20 mm	Large bracelet and pocket watches	6.25
34-330	0.30 mm	Pocket watches, clocks, and mainsprings	6.25
34-350	0.50 mm	Clocks and mainsprings	6.25
34-380	0.80 mm	Clocks and mainsprings	6.25

The Silver Dollar Regional

The Silver Dollar Regional was held at the Nugget Hotel & Casino in Nevada, August 15 & 16, 2010. The Regional Chair was Vince Angle (ably assisted by spouse Phyllis) who despite being confined to a Rascal three wheeler, due to illness, was "everywhere." Bob Peisch, a stalwart of the West Coast Watch and Clock Museum, was Mart Chairmen and did a wonderful job of pleasing everyone, a very difficult task. The Exhibit Chairman was Mike Slater of Chapter 71 Sacramento (Past President). His hard work and dedication energized the many volunteers. Ron Bechler, Chapter #173 Vice President, attended the event and reports that it was a well managed Regional with heavy public participation on the last day.

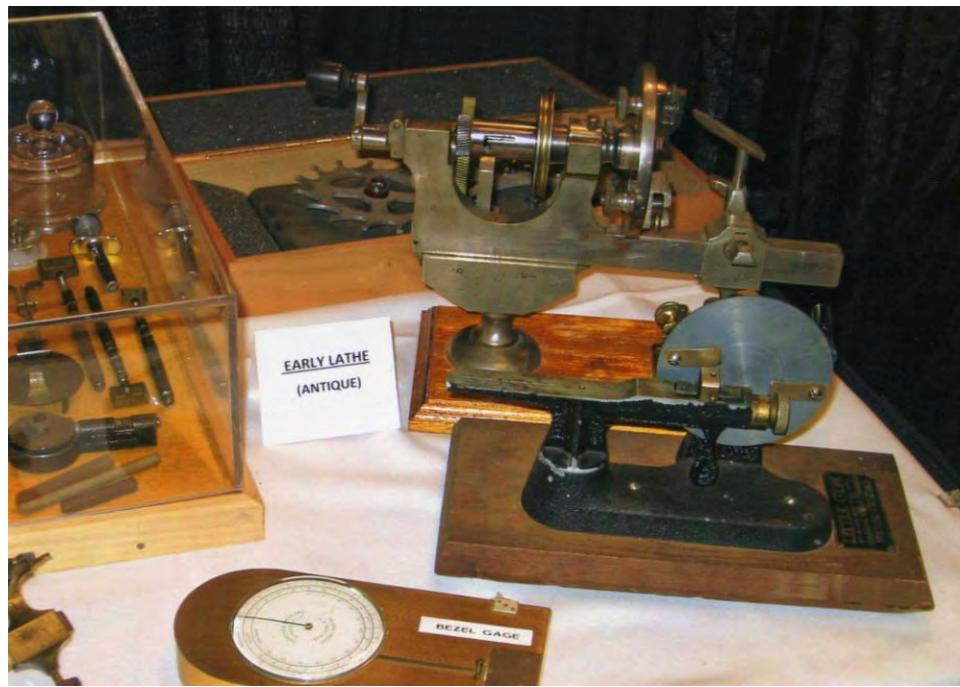
The Regional exhibit focused on horological tools, many of which were supplied by Ron Bechler. Ron and a volunteer, supplied and transported display cases and tools to the venue. Many of these tools are in fine condition with their original boxes that often deteriorate or are discarded by their owners. If you attended the exhibit you really hit the jackpot if you like old tools. Thanks to Ron Bechler who supplied the information on the regional and the following photographs.



One of the several horological tool displays at the Silver Dollar Regional



Two rounding up tools with accessories....



A Swiss mandrel lathe.... the "Little Gem" watch crystal cutter and a watch crystal gauge....



You name it...it was there and in an original box!



Someone's dream came truethe Seitz jewelling tool set....



Another display case full of interesting tools.....



Two Jacot tools....



Mainspring winders and more...

Reminder

If you have something of interest to share with our members, please mail it to the editor. News stories and feature articles are always welcome (but they must be related to horological tools). Chapter #173 is still looking for someone to run our annual meeting. Historically this took place at the Syracuse Regional (Eastern States) but we are not exclusive.

Upcoming Articles

Traditional Methods and Tools to Make Hairsprings

The Escapement Depth Tool

Making Gear Cutters Using a Levin Radius Turning Machine