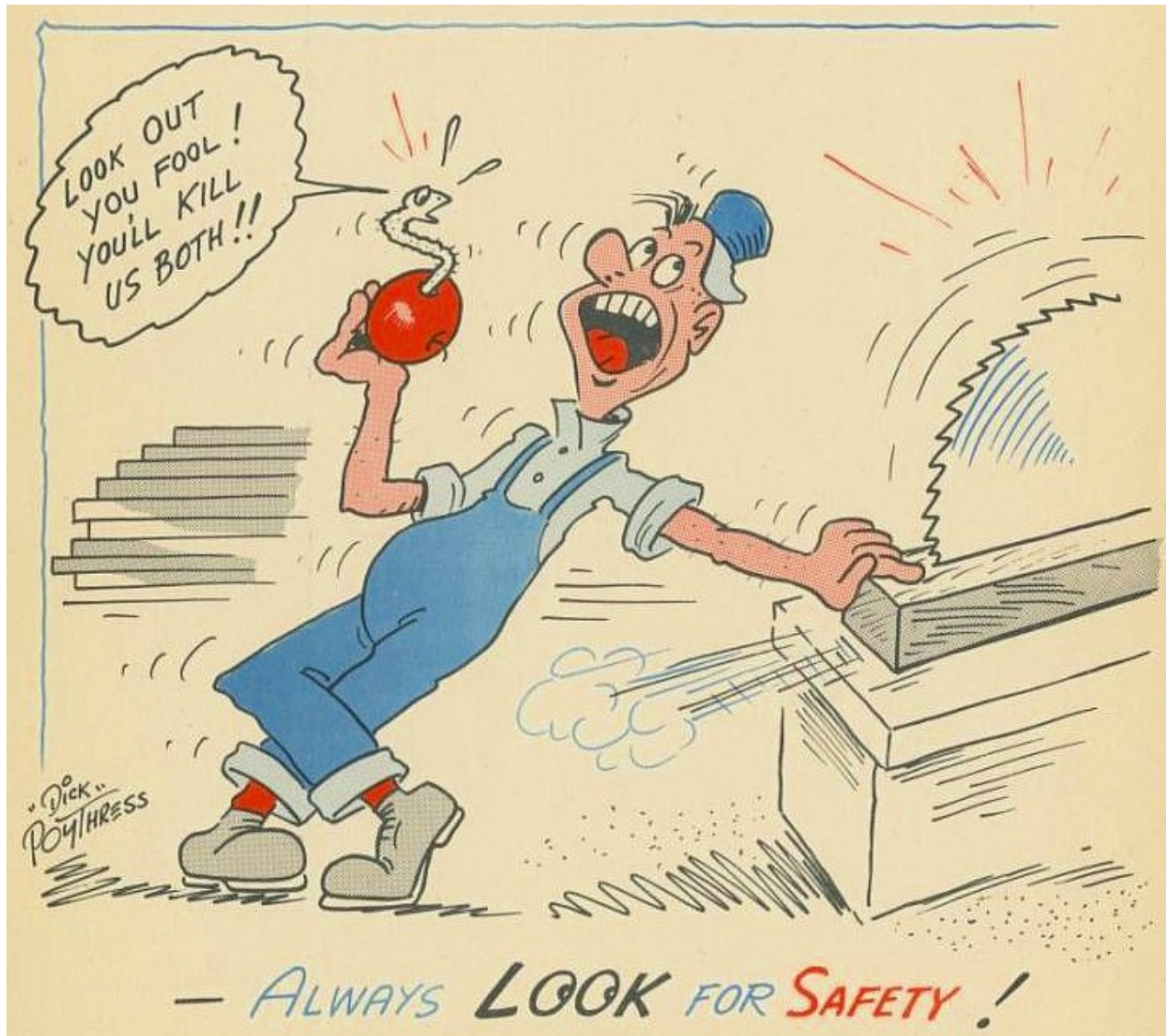


NEWS 135



**February
2014**

TTTG Inc.

www.tttg.org.au

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Cover page

From the Collection of the Virginia
Department of Labor and Industry
Safety Posters 1953–1975

Next Meeting

Tuesday 11 February 2014
Annie Wyatt Room
National Trust Centre
Observatory Hill Sydney

MYSTERY TOOLS

What is it? How was it used?

Auction

The February General Meeting will
conclude with a member's auction.

Many bargains at low prices!

Auction Rules

*The auction tools to be will be under
cover before the auction begins.*

*The auction tools can be inspected
during the intermission.*

TTTG Membership \$35

*For a modest annual subscription
members receive a quality newsletter
and a discount on workshop fees.*

The fees are currently under review.
Membership will be \$45 in 2014.

Workshops

How Much?

Members \$20

Others \$40

Join at workshop for \$55

TTTG Inc.

GENERAL MEETINGS

The general meetings are at the National Trust Centre Observatory Hill, Sydney.

This location is easy to reach by public transport. There is ample parking close to the meeting room.

Parking is free, safe and secure.

The general meetings are in the **Annie Wyatt Room.**

Refreshments are provided.

The entry fee is \$5.

TTTG Inc. Contacts

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Post Office Box 314
Lindfield 2070 NSW

Enquires

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02 9144 6356

Bob Crosbie
bobcrosbie@tttg.org.au

www.tttg.org.au

NEXT MEETING

Tuesday 11 February

Annie Wyatt Room **National Trust Centre** Observatory Hill Sydney

MYSTERY TOOLS

What is it? How was it used?

Entry \$5

'Doors open at 7pm'

Donations to TTTG

TTTG accepts donations of old tools and machinery. Acceptance of an offer to donate tools is subject to the TTTG Committee's assessment of the tools.

TTTG does not offer a "clear out everything in the garage" service.

TTTG cannot guarantee to pick up donated tools immediately,

Bequests to TTTG

What will happen to your tools? Consider leaving your collection to TTTG.

UNDER NO CIRCUMSTANCES WILL TTTG OFFER VALUATIONS OF TOOLS

Last Meeting

Measuring Drawing and Calculating Tools

Tuesday 10 December

John Bates discussed traditional and modern measuring devices. Examples of old measuring tools were shown by several members. These tools generated much interest and speculation.

The audience were engaged in a lively discussion of mechanical, optical and digital measurement.

The Auction

Auction donations keep arriving! This was a large auction with a great variety of tools falling under the auctioneer's hammer. All items were sold and good prices realised.

The auction takings from the last meeting contributed to the second month's rent on the Storage Unit. There will be more auction boxes on offer at the February auction.

There will be bargains as we need the storage space for the Tool Sale.

Next Meeting

MYSTERY TOOLS

What is it?

How was it used?

The success of Fred Murrells' column, Unusual Tools, in recent issues of *NEWS*, and a new 2014 feature in *Australian Woodsmith* magazine is the impetus for the theme of the first 2014 meeting.

Fred has more ***MYSTERY TOOLS*** than he can count or remember. For this meeting Fred will bring in the best of the best from his vast collection of old tools.

There are no prizes but the tools presented will challenge every one attending this meeting. As usual there will be some surprise tools held up by audience members.

Identifying the tools is only half of the puzzle, Fred and the audience will try and establish how these mystery tools were used.

If you miss this meeting you will have missed a unique opportunity to examine some exceptional tools.

Tool Chests

The Traditional Tools Group Inc.

When the TTTG Tool Collection has been moved to Brush Farm early in 2014 work will start on a publication documenting several of the TTTG Tool Chests.

The publication will include line drawings, photographs and commentary.

The proposed publication will appeal to anyone interested in traditional tools.

TTTG Home Base

TTTG is no longer homeless!
The two storey historic property
Brush Farm House Eastwood NSW
will house the TTTG Library and
the the TTTG Tool Collection.

The Traditional Tools Group Inc.
has entered into an agreement
with Ryde Council to store the
TTTG Library and Tool Collection
in Brush Farm House (Eastwood).

TTTG will conduct some classes in
the Hall at Brush Farm after April
2014. These will be “hands on”
workshops. TTTG also has the use
a shed at Brush Farm to store the
workshop tools and equipment.

*To deliver workshops early in 2014
the committee has secured other
locations for the March and April
TTTG Workshops.*

Epping Creative Community Centre

TTTG will conduct some classes at
the Epping Creative Community
Centre in 2014. These will be
“hands on” workshops. TTTG does
not have storage facilities at this
venue so these workshops will be
the basic sharpening workshops.
This venue offers a spacious area
combined with clean facilities.

Parramatta

TTTG is currently pursuing a site
in Parramatta suitable for setting
up dedicated TTTG workshops.
The objective is to find a suitable
heritage site to establish a heritage
value nineteenth century

Carpenters' Yard
and
Blacksmiths' Yard

2014 March and April

Workshops

Blacksmithing	Sunday 16 March
Sharpening Saws	Sunday 23rd March
Woodworking Edge Tools	Sunday 6th April

Venues: Blacksmithing

Sydney Heritage Fleet Shipyard Rozelle

Woodworking Edge-tools and Sharpening Saws

Epping Creative Centre, Dence Park, Stanley Road, Epping
Refreshments provided. Safe shoes and clothing required. Bring your lunch.

9am Sign In

9.15am Start

A few old tools on sale

Correspondence

NEWS 134

Dividers

I had intended to introduce myself to Matt Pryor to speak to him about his article on dividers and compasses. I thought he might be interested, in case he doesn't already know, there have been several articles on the subject in the past couple of years in the American magazine Popular Woodworking. He will find articles in issues 188,190,198, and 199. The one called Secrets of the Sector (issue 190) is particularly interesting and there is a u tube video (Popular Woodworking Editor's blog) of Megan Fitzpatrick using dividers for quick and easy dovetail lay out.

Jim Littlefield

Whistle wood dividers

Regarding the Whistle wood dividers, I may have a lead. About 2000 I was researching carving instructors and courses and I came across Whistle Wood Studios located at Chatswood NSW.

I think they used to advertise in Australian Woodworker.

David Hire

TTTG Committee News

Assistant Treasurer

Peter Tierney has volunteered to be the assistant TTTG Treasurer.

Clynt has inducted Peter into the responsibilities of this position.

The TTTG Committee members welcome Peter to the Committee. Peter has also offered to assist with the logistics of the 2014 Tool Sale.

Assistant Webmaster

The TTTG Committee is aware of the workload and stress Darcy faces as TTTG Webmaster.

With an assistant Darcy could develop the TTTG webpage into a dynamic interface for the general public and TTTG members.

Basic computer skills and an eye for effective graphics are the skills needed for this position.

Contact Darcy for more information

9874 3739

0414 256056

Assistant Librarian

In 2014 the TTTG Library will be moved to Brush Farm House Eastwood. This will provide the opportunity to sort and catalogue the library contents. An **Assistant Librarian** is required to assist Rick Mitchell in this project. Good Computer skills are essential. Access to Brush Farm will be arranged. This project may require recruiting other TTTG members to a Library team.

President's Report

Bob Crosbie

TTTG Finds a Home

2013 was a year full of change for TTTG. Crucial decisions were made which resulted in the achievement of the objectives identified in 2012.

2013 TTTG Tool Sale

The 2013 Tool Sale was the first "big" tool sale for TTTG. Previous tool sales were held in smaller venues. For the 2013 Tool Sale a large venue was secured and the sale was advertised aggressively.

The 2013 Tool Sale was a great success and the same venue has been booked for the 2014 Tool Sale.

Meetings/ Auctions

The General Meeting in 2013 were all well attended.

The auctions continued to offer a vast assortment of user tools at reasonable prices.

The General Meetings will continue at The National Trust Centre.

Workshops

The Workshops in 2013 were all well attended.

Work Health and Safety issues continued to present concerns at one of the venues. The Committee resolved to secure alternative venues for the 2014 Workshops.

Tool Collection/ Library

In 2013 the TTTG Library and TTTG Tool Collection continued to grow. Storage became an urgent matter of concern. Late in 2013 TTTG rented a commercial storage unit as an interim solution.

Home-Base Committee

By the early months of 2013 the need to address storage problems and Work Health and Safety issues were priorities for the Committee.

Geoff Unsworth offered to assist in finding premises. Geoff formed the Home Base Steering Committee.

Brush Farm Eastwood

The Traditional Tools Group Inc. has entered into an agreement with Ryde Council to store the TTTG Library and Tool Collection in Brush Farm House (Eastwood).

Parramatta

TTTG is currently pursuing a site in Parramatta suitable for setting up dedicated TTTG workshops.

2014 Tool Sale

As big as 2013!

2014 Workshops

Even better in 2014!

Consolidation/Growth

2014 will be another significant year of consolidation for TTTG.

Wet Grinders

Dry grinders burn woodworking tools, so you need a wet grinder.

Yes, dry grinders can burn edge tools if they are used unskilfully. The answer is to learn how to use dry grinders correctly rather than to buy a wet grinder. The reality is this; the wet grinders currently in production are inefficient and over-priced machines.

Excellent woodworking edge tool wet grinders were once made.

Where are the old McPherson's Grinders in the advert below?



Mc Pherson's Centenary Catalogue

Record Power has introduced a wet grinding machine running at a slower speed than the Tormek.

Have the machine makers totally lost the plot?

High speed grinders are excellent machines for grinding chisels and plane blades, as well as numerous other tools.

The secret is to learn how to use the machine correctly.

A good start is to invest in a TTTG Sharpening Workshop.

2014 TTTG

Sharp Tools Workshops

Sharpening Saws

Sunday 23rd March 2014

John Daniel and Bob Crosbie

Woodworking Edge Tools

Sunday 6th April

Jim Davey and Bob Crosbie

Venue

Epping Creative Centre,
Dence Park, Stanley Road,
Epping.

Enrol 9am Start 9.15am

Refreshments provided.

Safe foot wear is essential.

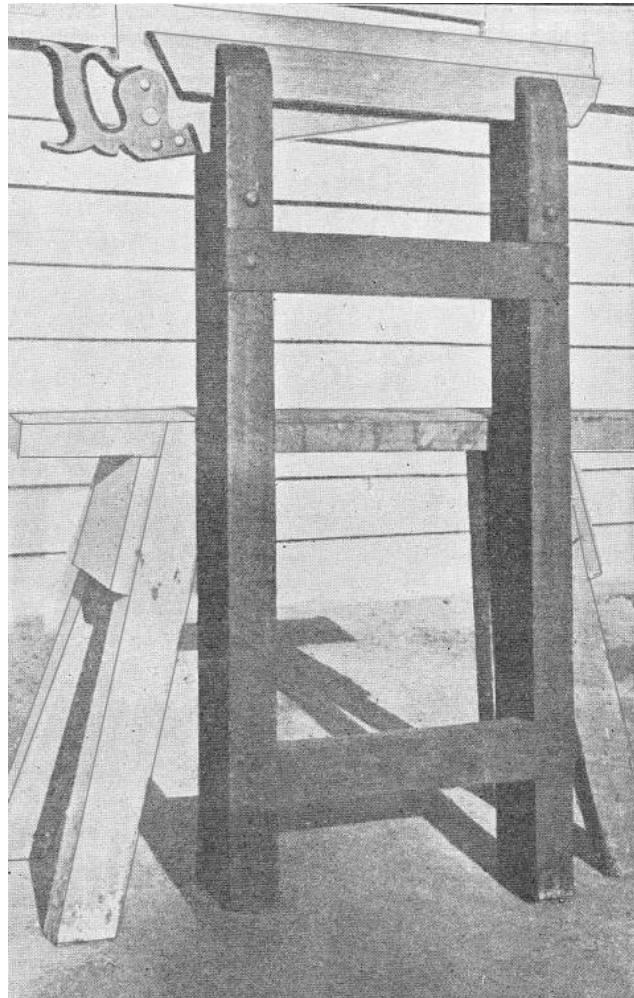
Saw Sharpening

Metal vices for filing saws have the virtue of being easy to store but wooden saw filing clamps dampen the noise of filing and the full of the saw can be filed without moving the saw.

The saw frame in the photo is heavily made. Lighter sections are fine but the frame needs to be made with tight joints.

Placing a saw trestle side on and resting the saw clamp against the saw trestle, with one foot on the bottom rail, is a convenient way to file saws outside a workshop.

The Farmers' Handbook
Department of Agriculture New
South Wales Sydney
Fifth Edition 1941



Saw Sharpening Workshop

Sunday 23rd March 2014

Sharpening Saws

John Daniel and Bob Crosbie

Venue

Epping Creative Centre, Dence Park, Stanley Road, Epping.

Enrol 9am Start 9.15am

Old saws will offered for sale

Carter Advertising Leaflet

A second Carter Planes leaflet has been found. The leaflet folds in the centre. The size of the folded leaflet is 297mm x 210mm.

The leaflet is undated. There is an announcement on the last page;

Carter is now making a C71 ROUTER PLANE with open throat, adjustable shoe, adjustable fence and three cutters. The C54 PLOUGH and GROOVING PLANE, with eight cutters, is also in production. It is fitted with Adjustable Depth Gauge, Adjustable Bridged Fence Arms (long and short).

The leaflet concludes with a list of Works Representatives.

Carter Works Representatives

Australia	4
New Zealand	1
British East Africa	1
South Africa	1
Also at Capetown	1

CONSTRUCTION

The Body is made of high-grade cast iron and is stress relieved by a heat-treatment process after the first machining. This gives extra strength and ensures the trueness of the already scientifically designed body. The sides and bottom are machined and surface ground to precision finish.

The Handle and Knob are made of seasoned Coachwood. They fit the hand naturally and comfortably, and are positioned to give perfect balance while the plane is being used.

The Cutting Iron is made of crucible cast high-grade tool steel. It is hardened and tempered by a modern heat treating process, tested on high precision testing machines, and accurately surface ground.

All other parts are fashioned from highest quality materials.

The new design Clamp saves time. It lies in parallel with blade and back iron and, therefore, its pressure does not alter when blade adjustments are made. The new type Thumb Cam is longer, stronger than other types, has more finger space underneath: factors which allow a sweeter and easier cam action.

GUARANTEE

CARTER PLANES carry the maker's guarantee as to materials and craftsmanship.

Distributed by all Wholesalers

Manufactured by

CARTER TOOLS PTY. LIMITED

PARRAMATTA, NSW., AUSTRALIA

The recently discovered CARTER PLANES Leaflet is printed on quality paper.

The layout and photography are high quality.

The leaflet seems to be early as new planes are announced.

The description of the construction of Carter Planes focuses on quality.

As more on **Carter Tools** emerges the profile of this manufacturer changes.

The Ledger

New Members

On behalf of the TTTG Executive and Members, a welcome is extended to three new members:-

John Sandilant	M697
Odd Kristensen	M698
Gavin Cooke	M699

We hope you will find your TTTG membership rewarding and look forward to your participation in the numerous TTTG activities.

New memberships received after 3rd January 2014 will be acknowledged in NEWS 136.

TTTG 2014 TOOL SALE

Expressions of Interest from prospective stallholders

Persons wishing to hire a table or tables at the Traditional Tools Group's 23 Feb 2014 tool sale should now contact me;

treasurer@tttg.org.au

(02) 9416 7134

Following the great success of our 2013 Tool Sale at the Brickpit Sports Stadium, Thornleigh, TTTG has again booked this venue for the 2014 TTTG Tool Sale.

The 2014 Tool Sale is Sunday 23rd February, 2014 from 9am to 1pm. *This is an indoor venue with parking underneath; so even if we have the deluge that preceded the 2013 sale, you need not get wet.*

Access for traders to bring in their tools is via a very gentle ramp at the front door. After unloading, parking is underneath the building in a spacious car park connected by steps or an elevator.

Table hire remains at \$40 per table and customer entry \$5 per head (with free entry for disinterested spouses and accompanied children).

New TTTG Membership Fee

\$35 no longer covers the cost of printing and mailing your copy of NEWS so your Committee has decided to increase the TTTG(Inc.) membership fee for the 2014/15 financial year to \$40.

Increased postal charges have also been factored in. If you live more than 50km from the GPO Sydney or you are a Centrelink pensioner then you may choose to pay only \$35. If you pay your 2014/15 subscription before 1st June 2014, we will accept the old \$35 fee.

Workshops

Workshop cost remains unchanged at \$20 or \$40 for non-members but non-members may join TTTG on the day; so for \$60 they get both the Workshop plus all the benefits of TTTG membership.

New workshop venues page 5.

Please urge any of your friends with similar interests to consider joining TTTG Inc.

Clynt Sheehy (Treasurer)

Unusual Tools

Fred Murrell

This is a real 'whatsit'- something I picked up at a swap meet some years ago.

This unusual tool is comprised of nickel plated steel to the most part with a nickel plated dial and two needles of similar shape, one superimposed over the other. The body of the gadget is obviously spring steel and when compressed moves the two needles around the dial which is marked in two scales, the outer one being pounds and the inner kilograms. When the pressure is released the top needle returns to rest but the second needle remains at the point where compression ceased.

In fine print on the dial are the words ***echelle de traction*** and on the rear ***'Germany'***.

The tell-tale was the snake around the lamppost indicating that it had a medical theme. I deduced that it was a compression testing device used to measure a patient's grip.



The second tool is something we rarely see in Australia. It is not marked but it is probably English.

Difficult to see in the picture, it has a steel sole hinged at one end. The sole is adjustable by a thumb screw through the body from the top. The thumb screw has the action of pushing the sole away from the body to adjust the gap between the cutting edge and the sole. The sole is not spring loaded as it is forced back against the screw by the action of drawing a piece of willow along the sole and beneath the cutter. The shaved strip of willow resulting is used for basket weaving.



Unusual Tools

Fred Murrell

The photo is of an organ tuner's voice cone in turned brass.

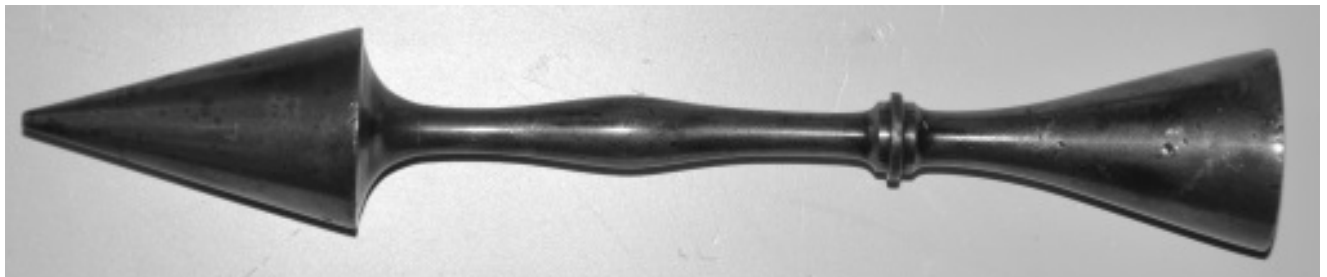
Organ tuner's voice cones come in a variety of sizes. This one is 245 mm long and the bottom cone (which is hollow) is 40 mm in diameter. The other end, also 40 mm diameter, is solid.

How are they used?

The pipes in a pipe organ vary considerably in size. Some cones were made of wood but the ones I have seen were made of a lead based metal, probably a mixture of lead and zinc and are quite soft and malleable.

Tuning an organ depends on its construction and whether or not it has slides of various designs that can be moved to allow more or less air to pass through the pipe.

I am informed that voicing cones were normally used on smaller metal pipes. To make the note higher the hollow end of the cone is placed over the end of the pipe and very lightly tapped to reduce the diameter of the pipe. To lower the note the solid end is placed in the opening and also lightly tapped to expand the pipe. It can be seen that the tool in the photo would suite pipes with up to 40 mm inside diameter.



Fred Murrell's ***Unusual Tools*** is now a regular column in TTTG ***NEWS***.

Fred has a vast collection of unusual tools. Fred has identified most of the tools.

A ***Mystery Tools*** page will appear in The ***Australian Woodsmith*** in 2014.

A panel of TTTG members will assist the magazine in identifying Mystery Tools.

Australian Woodsmith readers are invited to submit photos of Mystery Tools.

The TTTG ***Mystery Tools*** panel will include Fred Murrell and John Daniel.

Mystery Tools is certain to generate interest and more than a few arguments.

Sharpening Files and Rasps

The USA commercial option

Matt Pryor alerted the editor to this entry on the Chris Schwarz blog.

There are (at least) two schools of thought on resharpening files and rasps.

1. Don't be a snapperhead. Use it and throw it away.
2. Send it to Boggs Tool & File Sharpening Co. in California. Boggs uses a "liquid honing process" to remove material from the back of the teeth, exposing a sharp edge. I've used rasps sharpened by Boggs and I can attest that they work better than the tool did when new. These were not Auriou products, however; they were Nicholson patternmaker's rasps. So I cannot say how the Auriou would do. It wouldn't hurt to give Boggs a call and ask. Last time I checked, resharpening a cabinet-sized rasp was less than \$10.

Chris Schwarz's blog is at

<http://www.popularwoodworking.com/woodworking-blogs/chris-schwarz-blog/how-do-i-sharpen-a-rasp>

Matt's comment was

Perhaps TTTG needs to sell Chris Schwarz some citric acid

Matt then googled Boggs tool

He learnt liquid honing is steam driven abrasive blasting.

www.boggstool.com/page1.html

Special offer

If a reader can find two identical blunt files or rasps TTTG can do a quality control test.

The editor will sharpen one in citric acid and the other will be sent States' side for liquid honing. All we need is a member to put up the money for the liquid honing!

Sharpening by pickling in acid

Sharpening rasps and files using acid has been mentioned in NEWS in several issues. The editor favours using either *citric acid* or *cleaning vinegar*. Both these acids are inexpensive and safer than stronger acids.

TTTG sells Citric Acid in 500gm bags at \$5 per bag.

A suitable plastic container and gloves are the only other outlays.

Everything else can be found in the workshop and in the laundry.

Clean the files before immersion with a wire brush.

Brush, rinse and dry the files after immersion in warm soapy water.

What is liquid honing?

On further investigation we discovered that liquid honing wasn't acid pickling.

Boggs tool description

We call our file sharpening process LIQUID HONING. Using steam, we relief-grind with abrasive blasting. Abrasives driven by steam pressure remove metal from the back edge of the file teeth until the edge is reformed. If you look at the edge of sharpened teeth under a microscope, you will see that the edge has no serrations. This is called a true honed edge. It is very sharp and it will far outlast regular files. The analogy of using a sharp razor versus a dull razor is appropriate here.

The limitation to liquid honing is that we are not re-fluting the gullets between the teeth. A very fine-tooth file will take only one sharpening. A coarser-tooth file can take several sharpenings. To best use our services, don't overuse your files. We block-test every sharpened file. If it does not pass our inspection, we dye the end in dark red diecum and reject it. These rejected files will still give you service, (they sell very well in aerospace salvage sales), don't send them back to us.

All shapes of files are sharpenable: flat, square, round, half-round and 3-square. All types of files are sharpenable: American Pattern, Milled-Tooth or Vixen, Horse Rasps, Wood Rasps, Swiss Files, Rifflers, Needle Files and Machinists' Files. In addition to sharpening new files, we can sharpen any size, shape or style of used file to a "like new" condition.

This type of honing has been going on since the turn of the last century, and I mean 1900. My grandfather started Keystone File Sharpening in 1932. Though this process has been around for a long time, there's still no better method to be found. Acid and electro-chemical milling has been tried, but it won't improve an edge like liquid honing. We've had some of our customers for thirty to forty years. Let us make you our customer and keep you on the cutting edge. Our process will give you the sharpest edge possible.

Check out what others are saying about Bogg's Tool Company at Sawmill Creek Neanderthal Haven, The Horse's Hoof, Practical Machinist and other guilds, forums, schools and publications on the web!

The two established methods of resharpening files and rasps are:-

Abrasive Blasting and Acid Pickling

The **Boggs** Sharpening Service sharpens files and rasps by **Abrasive Blasting**
Easy sharp liquid sharpens files and rasps by **Acid Pickling**

Easy sharp liquid

Matt did a bit more research and discovered **Easy Sharp Liquid** http://www.easysharpliquid.com/american_farriers_journal.html

This is a resharpening service for Farriers' rasps.

The editor's son is a Veterinary Surgeon, he confirmed how much Farriers outlay on new rasps.

Easy Sharp Liquid

Easy Sharp, Summerfield, Fla.

For the most part, farriers are skeptical of new products. That skepticism is increased for many when told there is a liquid product that can sharpen rasps.

"People have to see it work to believe it," says Easy Sharp owner David Manuel. "When that product works and saves money in a bad economy, then more people are going to be interested."

Manuel estimates that farriers can save \$2,000 a year by using Easy Sharp. He believes the big draw beyond savings is that the sharpening bath won't lose depth of the rasp teeth. The longevity provided to rasps will influence how farriers will use the tool, according to Manuel. For more info on this product, turn to Page 68 (reproduced below).

Spend your money with **Boggs** or on **Easy Sharp Liquid**.

Cleaning Vinegar or Citric Acid are a lot cheaper and do the job.

The choice is for you to make!

Easy Sharp is an acid bath product that is used in a two-step sharpening process. An initial kit includes the liquid, a PVC container, plastic core sheets and rasp separators.

Rasps are first cleaned of debris with a wire wheel or brush. They are placed in the PVC container, which is then filled with the liquid. Manuel says it's important that the rasps be kept upright. The kit has dividers that keep rasps from touching the sides of the PVC container or each other, which allows the liquid to act on the metal.

Plastic core sheets are placed over the rasps for the initial soaking. The sheet is removed for the second step. Manuel says the two-step process is important, because it allows "core shrinkage" to take place. Manuel says this cleans up the teeth of the rasp and keeps them in the proper proportion to the core of the rasp.

"In other sharpening processes, the teeth get smaller and you'll get clogging instantly," he says, adding that Easy Sharp sharpens a rasp to about 95% of brand new.

Two rasps can be soaked at once. Trimming rasps should be soaked for about 3 hours and finishing rasps for about 5. Once the process is completed, rasps can be blotted dry with paper towels and they're ready to use.

My Christmas present, to myself

Matt Pryor

After reading the next few words the editor and some readers may never think the same of me again!

***I bought a Lie Nielsen plane!
I am now a yuppie!***

However, it was with good reason.

1. I wanted to own at least one top quality plane to pass on when I'm done with my trade.
2. It was the season to be jolly and spend your money.
3. This is No.4 with a 50°frog.

After much thought and study, I found that one of the reasons that the Norris smoothing planes were so damn good was that the iron was bedded at 50°(York pitch).

First piece of timber I tried it on was a piece of red cedar with a knot and changing grain direction.

It did not even bat an eyelid!

I should also acknowledge my wife for approving my present to myself.

Roman Plane

Matt Pryor

Hand Plane Central

If you are interested in planes you should google *Hand Plane Central*. This recently discovered Roman plane is discussed and illustrated.



Roman Plane of Yorkshire Wolds

As far as we can tell, the plane can be provisionally dated to the second to fourth centuries AD, though it may even be older than that.

Most Roman planes are simple affairs, made entirely of wood with the cutting iron wedged against a pin. Others, such as the Pompeii and Goodmanham planes, are riveted to an iron sole - greatly extending their working life.

Wanted

Men's Shed Coordinator

Parramatta Men's Shed is looking for a Coordinator.

*Some TTTG members may be interested in joining this new Men's Shed.
A TTTG member may be interesting in volunteering to be the Shed Coordinator*

This Men's' Shed will have new machinery and is WHS compliant.

Contact: bobcrosbie@tttg.org.au

JD's

Cheese Making Press

John Daniel

Missing a finial and a small lifting spindle/handle attached to the plunger wasn't the first thing that caught my attention, it was the age and honesty of this nineteenth century contraption; a friend who dropped it in for a bit of attention denied me the chance to check out a mystery item with the greeting, "here is the cheese press I was telling you about".

Now that was an opportunity missed, this Oak, hand operated machine was now in my hands.

The press is a simple mechanism which applies pressure to a plunger (for the want of a better name) which fits into a strainer, this in turn sits inside a collector which drains off the whey through a spout, very basic however effective. The hand forged "S" shaped winder just tops it off.



The cheese press showed signs of age with past evidence of wood-worm, stress and some shrinkage distortion however this added to the charm of this example of Victorian *Kitchenalia*. Restore this piece, never! To interfere with well over one hundred years of aged patina would be vandalism, all that was required was to replace a missing finial above the top bar and replace the missing small lifting spindle/handle on the pressing plunger.

To make the missing pieces was straight forward; the larger finial was held on a spigot which had been prepared on a screw chuck, the finer turning was held between a keyless chuck and tailstock. The replacements were stained to match and finished with shellac followed by wax; actually, this was a good time to wax the press.

To have the chance to handle and repair exquisite tools from a bygone era has always given me great satisfaction, this little French cheese Press was no exception.



Above:

The Cheese Moulds

Left:

Top view of the Cheese Press

Below: Turning new part



Bottom: French Cheese Press



Screw Cutting on the Lathe **Part 1**

John Bates

A thread is a uniform helical groove cut inside of a cylindrical work-piece or on the outside of a tube or shaft. Screw threads are cut with the lathe for accuracy as well as for versatility. Both inch and metric screw threads can be cut using the lathe.

However, successful threading with a single-point tool depends on a number of factors. These include the condition of the lathe, the setting of the tool, the type of material, and, by no means least, the manner or sequence in which the cuts are taken. Knowledge of the various thread forms and procedures for cutting is essential.

Thread cutting on the lathe is an exacting operation. In addition to good knowledge it requires skilled hand co-ordination, as well as experience with lathe mechanisms. Cutting tool angles are closely related to effective thread cutting and accuracy is the essence of a good screw thread.

General Advice

The lathe spindle must be in proper adjustment to remove shake and endplay. Indentations of centred work should be clean and accurate, and sufficiently large for firm support and resistance to wear. If used, the tailstock centre should be constantly lubricated and from time to time checked for setting. The cross-slide should be adjusted to noticeable (not heavy) friction against the feed screw; top slide friction should be fairly heavy to prevent inadvertent movement. The saddle and lead-screw must also be well adjusted.

Tapered screw threads or pipe threads can be cut on the lathe; set the tailstock over or use a taper attachment. Check the cutter bit carefully for clearances before cutting since it will not be entering the work-piece at right angles to the tapered surface. Note that in cutting a tapered thread, the cutter bit should be set at right angles to the axis of the work-piece.

****Do not set the thread cutter bit at right angles to the taper of the thread.****

The work-piece may be set up in the chuck or between centres. If a long thread is cut use a follow rest if one is available because cutting pressure can cause the work-piece to deflect.

Before threading, turn down the diameter of the threaded portion of the work to equal the major diameter of the thread to be cut. 'Blue' the work and take a very light cut to see that the lathe is geared for the required number of threads per inch. If set up is right continue taking cuts until the thread reaches the required depth.

At the end of each pass move the cutter out of engagement with the thread being cut and traverse the cutter back past the beginning of the thread. To do this the half-nuts are usually disengaged and the carriage returned by hand; you must then use the thread chasing dial so as to engage the half-nuts for the next cut at a point where the cutter bit will follow the previous cut. If no thread dial is available **DO NOT** disengage the half nuts at any time. Instead, return the cutter bit under power by reversing the lathe.

If you are cutting metric threads using an imperial lead screw or imperial threads using a metric lead-screw DO NOT disengage the half nuts at any time. Return the cutter bit under power by reversing the lathe.

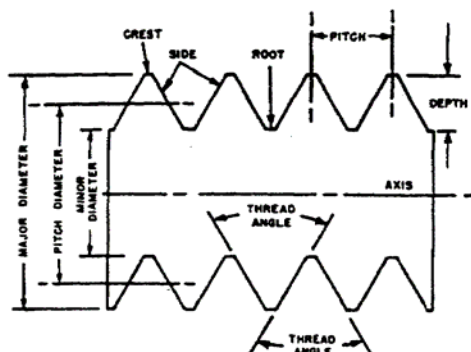
When the thread is cut, the end of it should be finished in some way. The most common finish is a 45° angle chamfer. To produce a rounded end a cutter bit with the desired shape can be ground.

NOTE: *always consult your lathe manual for specific directions on gearing, feeds, thread cutting and use of the thread dial.*

Screw Thread Terminology

Most screw thread terminology can be understood by reference to the diagram below. It should be noted that the Pitch Diameter is the diameter of an imaginary cylinder formed where the width of the groove is equal to one-half of the pitch. This is the critical dimension of threading as the fit of the thread is set by the pitch diameter.

Also the Lead of the Screw is the distance a screw thread advances axially in one complete revolution. On a single-thread screw, the lead is equal to the pitch, but on a double-thread screw the lead is twice the pitch and three times the pitch for a triple-thread screw.



Screw Thread Forms

There are many commonly used thread forms; ISO Metric, Unified and American (National) thread are probably the most widely used. Acme, square, and 29° worm threads are common on devices which transmit motion such as lead screws, screw jacks and vices.

Other thread forms include the square, Brown & Sharpe 29° worm screw, British Association (BA), and British Standard Whitworth. Various types of pipe thread forms are also in use and these have generally the same characteristics but different fits. All of these threads and more can be cut using the lathe.

NOTE: *always consult the Machinery's Handbook or a similar reference work for details concerning particular thread types and fits.*

Part 2 Screw Cutting

Part 2 of John's article will be published in NEWS 136.

John Bates' Q & A

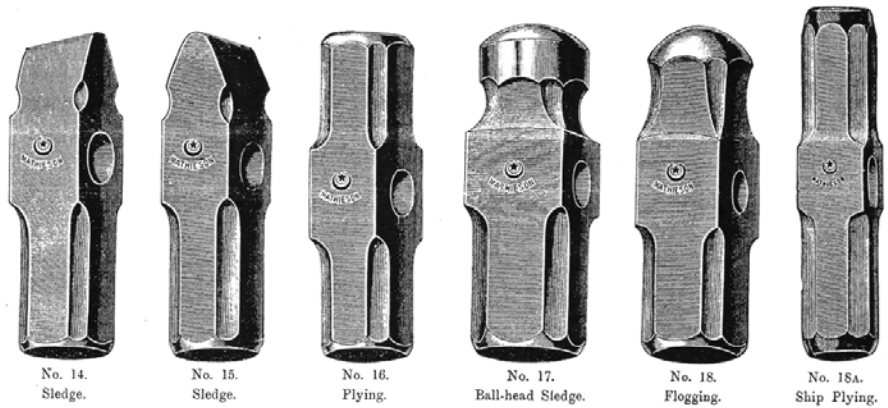
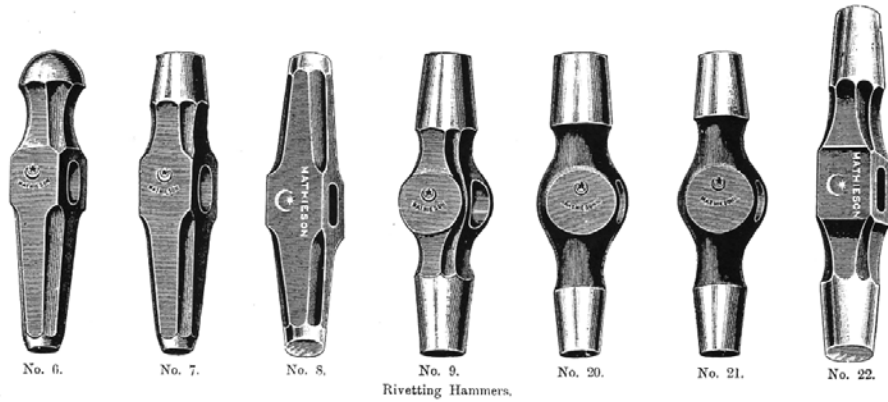
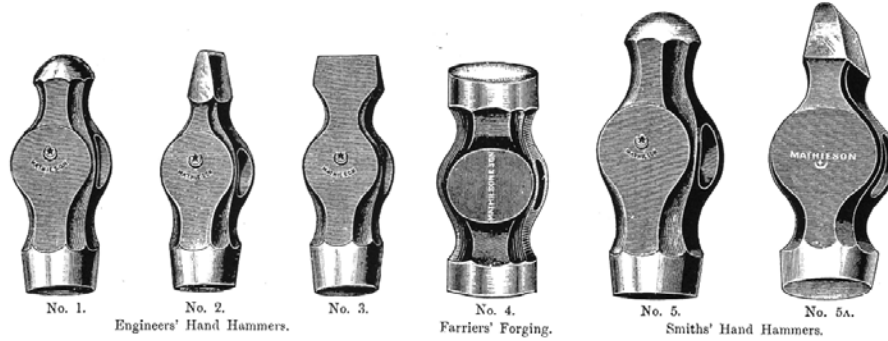
If you have any questions about **Part 1** email the editor.

These questions could be the beginning of another regular column in NEWS.

John Bates is a well-known TTTG Committee member and regularly attends TTTG meetings. John will have a few tables at the 2014 TTTG Tool Sale selling a vast range of machinist's tools.

Metal Worker's Hammers

*Alex Mathieson & Sons
1899 Catalogue*



TTTG 2014 Blacksmithing Workshop Sunday 16 March

Projects: Bench Holdfast Striking Knife Draw Bore Pin

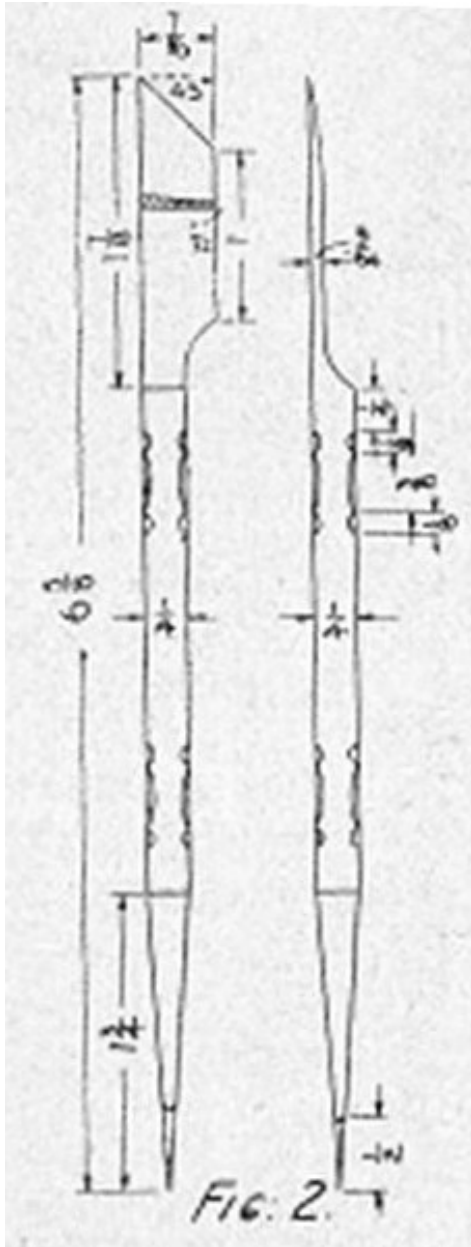
Venue: Sydney Heritage Fleet Shipyard Rozelle

Refreshments provided. **Safe shoes and clothing required.** Bring lunch.

9am Sign In

9.15am Start

Striking Knife



Sizes are imperial.

Metalwork

For Schools & Colleges
Its Principals and Practice
Geo. J Armytage
Fifth Edition
Oxford University Press 1943



This is the standard design of the traditional Striking Knife.

The decorative edges provide grip but a plain chamfered edge would also be appropriate.

The Striking Knife should be forged from steel. Old *cast steel* square or round files are ideal for this knife.

If an old file is used the file must be annealed and normalised before forging. After forging the knife is filed. Note the single bevel. After filing the knife is hardened and tempered and finally sharpened.

This Striking Knife is one of the projects at the next Blacksmithing Workshop, Sunday 16 March at the Heritage Fleet Dockyard.

Woodfast 14" Bandsaw

The editor's Woodfast 14" Bandsaw came from a Sydney high school that opened in 1961.

This bandsaw was probably one of the original machines installed in the school. When I acquired the bandsaw it had been written off.

The old Woodfast was replaced with a *better* machine. The new motor in the new bandsaw burnt out in under a fortnight and it was barely satisfactory in all respects.

The man who did the cyclical maintenance on the school's machines appreciated the quality of the old Woodfast. The only fault it had was worn ball race guides due to bad setting up. The saw wasn't in my room and the other teachers often compared it to the bandsaw in my room which was younger and ran perfectly.

When I set up the bandsaw in my home workshop I replaced the old ball races and set the machine up correctly. Several years' of service proved the quality of the machine. Eventually the saw blades became harder to track so it was time to replace the vulcanised tyres.

Woodfast are still in business and offer replacement parts and can fit new bandsaw tyres. My machine is in Sydney and Woodfast in South Australia. The cost of freight made me look for alternative solutions.

The way out was to fit Carter Ultra Blue Urethane Band Saw Tires. These tires were purchased from Lee Valley Tools Ltd. Canada.

I decided to fit the Carter Ultra Blue Urethane Band Saw Tires over the existing vulcanised tyres.

The difficult job was truing up the bottom wheel as it was full of steel particles from the worn ball races. I rigged up a tool rest and used an engineers' hand scraper followed by coarse abrasive to true up the rubber tyre. Hard work but I did get the tyre flat even though it was still full of steel shards.



**Fidax
Bench Drilling Machine**

Made in Sydney in the 1960s

Industry's most competitively priced

**13 mm (1/2")
4 Speed
BENCH
DRILLING MACHINE**

The OUTSTANDING
Mk III FIDAX

Giving Drill Speeds of
630, 1150, 1820 and 3200 R.P.M.

The moderately priced Fidax Mark III Bench Drilling Machine is precision engineered, being specially designed for close tolerance production work. It is also ideally suited for general workshop drilling, being extremely robust and reliable.

Maximum rated capacity is 13 mm in steel and 25 mm in hardwoods.

In addition to being supplied complete with 1/2 h.p. motor, with integral switch, Vee belt drive, and 13 mm Chuck, the FIDAX drill includes additional advantages usually found only in higher priced machines for example:

- Heavy duty solid steel column.
- Accurately supported spindle.
- Heavy duty spindle thrust bearing.
- Positive depth control.
- Simple speed change - with provision for belt tensioning and belt replacement.
- One only lubrication point.
- Supplied complete - no extras.

COMPLETE WITH
1/2 H.P. MOTOR

**FULLY
GUARANTEED
FOR
12 MONTHS**

SPECIFICATIONS

Overall height 760 mm
 Chuck to base (Max.) 355 mm
 Drills to centre of 305 mm circle
 Base working face 230 mm x 240 mm
 Drilling Depth Gauge 76 mm
 Shipping weight (Approx.) 70 kg

Designed and Manufactured by
FIDAX ENGINEERING PTY. LTD.
 Manufacturing Engineers and Iron Founders
 218 Willoughby Rd., Crows Nest, Sydney, N.S.W. Tel: 43-1985

Australian Made Machines

The TTTG Editorial Committee wants images of locally made machines. The intention is to develop a folio of Australian Made machine and tools.

The images will be posted on the TTTG website.

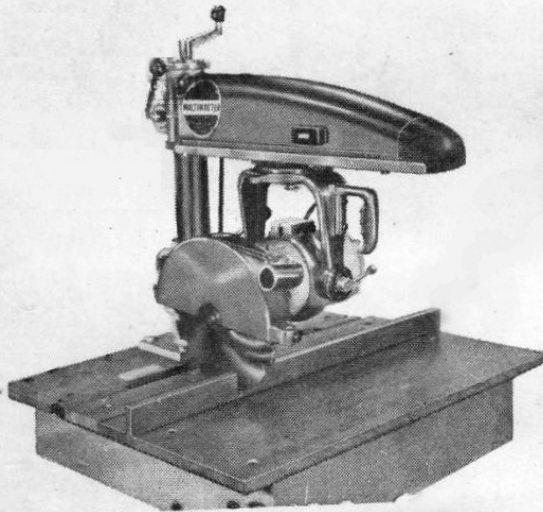
YOU CAN Swing Main Beam 360° Round Column.

YOU CAN Swing Sliding Head 360° in Horizontal Plane.

YOU CAN Swing Motor 360° in a Vertical Plane.

YOU CAN Get Any Compound Angle You Require.

FOR THE FIRST TIME **YOU CAN -**

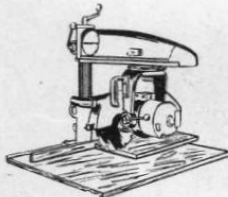


**RIP - MOULD - TRENCH
DRILL and SAND
AT ANY ANGLE with
ONE MACHINE . . .**

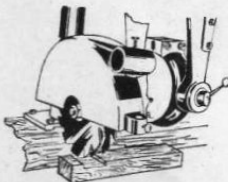
THE

'MULTIMASTER'

It's a complete power-shop on a motorized arm—the most versatile unit you can buy. Saw-blades to 12in., trenching blades, drills, moulding spindles are swung to any angle or position. It's safe, accurate, easy to operate—yet its low cost saves the price of many single-purpose machines.

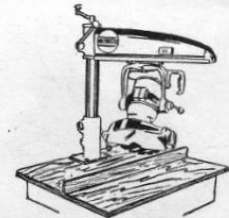


- Saw-cuts are unlimited, ripping and cross-cutting are only two of the many cuts made easier, quicker.

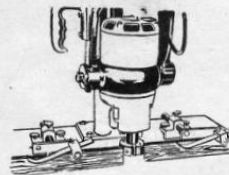


- Trenching, checking, tenoning, is done to exact, uniform depths—just set the machine.

- Right or left-hand mitre - cuts, bevelling, are simple—just set the blade at the exact angle.



- Moulding, tonguing, and grooving, is done with precision—on the edge, side, or above the material simply by adjusting the cutter-head where desired.



These are just a few of the scores of operations possible with MULTIMASTER. Call for a demonstration.

IF YOU WORK IN TIMBER YOU NEED THE MULTIMASTER

Australian Made Machines

Australian Made Hand Tools

The Editor is interested in any information on Australian made tools and machines

If you have any flyers for locally made tools and machines donate a copy to TTTG

'MULTIMASTER'

Australian Made Machine

'MULTIMASTER' radial arm saws were manufactured in Melbourne. The sales leaflet on the opposite page has a date pencilled in the top right corner; 1960-64.

A & F Mitchell Pty. Ltd.
20 Russell Street
East Hawthorn
manufactured 'MULTIMASTER'.

The New South Wales distributors name is rubber stamped on the sales leaflet on the opposite page; Watson Bros.
174 Watson Street. Sydney

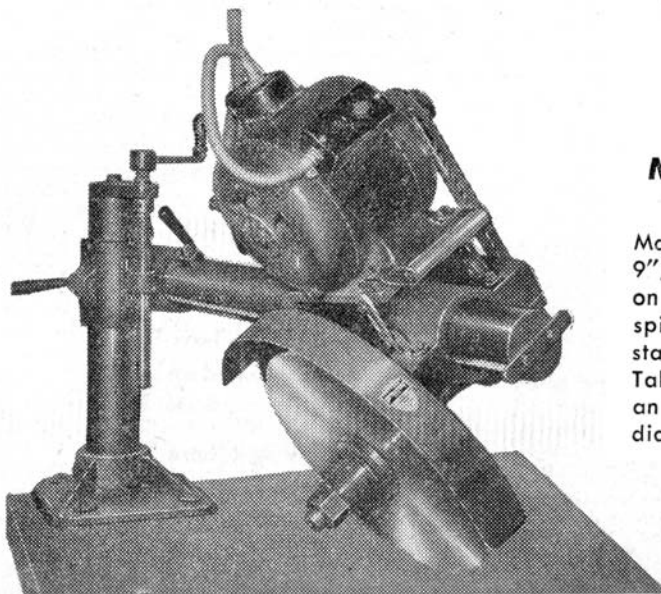
With the sales leaflet is a six page description of the 'MULTIMASTER'.

The typed description is details the numerous applications and many advantages of the 'MULTIMASTER'. This document was probably for distributors and retailers.

The 'MULTIMASTER' and its rival the 'SAWMASTER', and several other radial arm saws, were popular machines in the 1960s.

Most Joiners' workshops had one of these radial arm saws. Petrol driven versions were common on building sites.

A common use of these radial arm saws was trenching wall plates. By fitting a trenching head top and bottom plates could be trenched rapidly and accurately.



M209—"TATE" RADIAL ARM DOCKING SAW

Main arm has vertical adjustment of 9", swings 180°. Travel of saddle on main arm is 18". Swing of saw spindle 90°. Machine can be instantly set to cut compound angles. Takes saws up to 18" diameter; or an adjustable trenching head (10" dia.) can be fitted on the spindle.

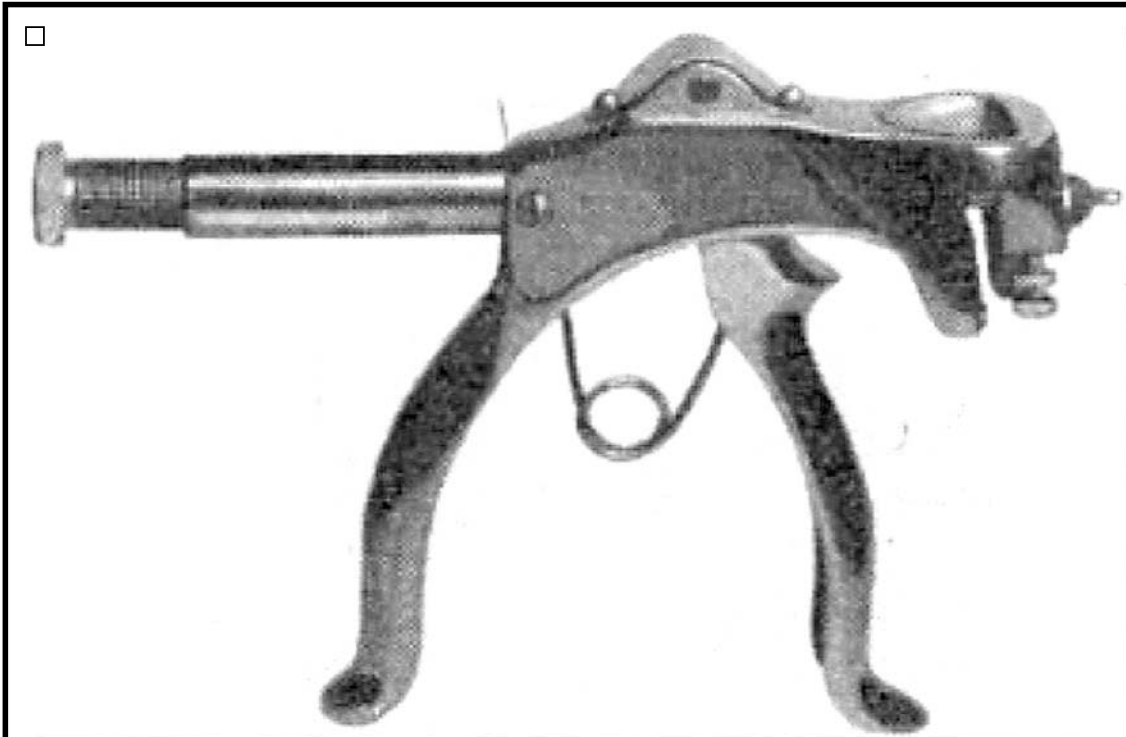
Petrol Engine can be fitted to this machine for operation where electric power is not available.

Mc Pherson's Centenary Catalogue

1960 was Mc Pherson's Centenary

McPherson's also sold NOLEX saws

Pistol Grip Hammer Set Saw Set with Trigger Action



Pistol Grip Saw Set manufactured
by The Foley Manufacturing Co.

Popular Mechanics July 1931

Saw Sets

Which Saw Set do I need?

This is the question asked at every TTTG Saw Sharpening Workshop.

For most hand saws the “best” saw set is an ***Eclipse 77***

For Back Saws the “best” saw set is one of the ***Pistol Grip Saw Sets.***

Stanley and Disston made a number of Pistol Grip Saw Sets.

The Stanley Pistol Grip Saw Sets are Nos. 42, 43, 442.

The Disston Pistol Grip Saw Set is No. 42X.

Other quality brands of Pistol Grip Saw Sets include Foley and Atlas.

An ***Eclipse 77 Saw Set*** and a ***Pistol Grip Saw Set*** will set any handsaw.

Grinding Edge Tools

I grind all my edge tools on a GMF 8" (200mm) Pedestal Grinder.

If I had to replace this grinder I would look for another forty years old GMF (or Durst or similar) 8" (200mm) Pedestal Grinder.

Slow speed wet grinders like the Tormek are slow and expensive.

The wheels fitted to the Grinder are the key to efficient grinding. The wheels should be Aluminium Oxide, with a soft bond. Some of these wheels are white, some red and some blue. There is little real difference between the colours.

Coarse grit wheels are best.

I use 46 grit wheels. Used correctly 46 grit wheels produce accurately ground edges relatively quickly.

The wheels need to be kept sharp by regular dressing. Some like to use a diamond dresser, I prefer a carborundum dressing stick.

Install the wheels correctly.

Always leave the blotters on the wheels and make sure the wheels are balanced and run true.

25mm wide wheels are adequate for grinding wide edge tools.

Learn how to grind edge tools at a TTTG Workshop.



PLANES

FULLY FETTLED (TUNED) AND SHARP
STANLEY BAILEY, BEDROCK & BLOCK PLANES
FETTLING SERVICE, REPAIRS, WELDING

TRADE PRICES ON:



DMT DIAMOND PLATES - DIA-SHARP PLATES



ICE BEAR & KING WATERSTONES

M2 HSS ACADEMY BLADES, LEATHER CHISEL ROLLS AND COVERS



AGENT FOR CARBA-TEC

CREDIT CARD FACILITIES:



VISA



Jim Davey

Ph 02 4447 8822(W) 4447 8790(AH) PO Box 967 Nowra NSW 2541
JDAVEY@bigpond.com www.jimdavey-planes-sharpening.com

TTTG Library

Brian Read, TATHS UK, has donated a CD of a Berg Catalogue

Catalogue #27, Price List 27E The Price List 1933. Catalogue 1937



Tool Collection

Appraisal and Conservation

The TTTG Tool Collection contains numerous tools but they are in tool boxes and cardboard cartons.

TTTG rents a commercial storage unit, the tool boxes, benches and lathes fill most of the space. The books and various tools in small boxes fill up any remaining gaps.

The better tool boxes, some tools and the Library will be moved to Brush Farm House. The rarer tool chests will be on display.

TTTG will store the benches and tools necessary for the workshops in a shed at Brush Farm. Moving will be fairly straight forward as the store unit is in Parramatta.

Any surplus books and tools will be sold to TTTG members. One of the options is to have a “members only” sale, possibly in the Hall at Brush Farm.

Organising the TTTG Library and Tool Collection will be a big task.

Volunteers Wanted

TTTG at Brush Farm House

Moving Out

Volunteers Wanted to transport tools, books & benches
Parramatta to Brush Farm House

Moving In

Volunteers Wanted to unpack tools, books & benches
Brush Farm House

Cleaning Up

Volunteers Wanted to clean tools

Record & Tag

Volunteers Wanted to catalogue the Library

We need volunteers so we can plan the move to Brush Farm House

The first stage of the move will probably be in February 2014

Reviews

Fine Wood Working

Tools & Shops

Annual Issue Winter 2014

A number of articles in this issue will interest TTTG members.

Readers Galley has some nice “reader made” hand tools. The two planes by Derek Cohen from Perth Australia should inspire readers “to try their hand”. Derek’s *Spiers-style infill smoother* and his *Bridle Plough Plane* based on Mathieson are fine examples of plane making.

The Story of a custom knob is an example of how basic machining can result in an exotic creation. Examples of this machinist’s customised tools are in full colour on the back page Tools & Shops. **Turn a Carver’s Mallet** is a very good introduction to correct wood turning techniques.

A Cabinet for Hand Tools a good design for a wall mounted cabinet for woodworking hand tools.

Make Better Use of Your Space has several examples of different woodworker’s solutions to setting up a “space efficient” workshop.

Organize Your Shop with Smart Cards provides good examples of putting tool storage on wheels.

Measure Angles the Digital Way will appeal to readers interested in sensible uses for new technology.

At only \$18 **Tools & Shops** Annual is a good buy! Every article and even the adverts are worth reading.

TTTG needs tool donations For the TTTG Workshops

Especially

Woodworking Vices 10” Quick Action

GMF Bench Grinder 8”

Planes Numbers 6 & 7 Stanley or Record

Chisels, all sizes Best brands

But all hand tools are needed

If you don’t want it TTTG will take it!

Surplus tools will be sold to TTTG members

Popular Woodworking Magazine

November 2013

A number of articles in this issue will interest TTTG members.

Fixed Width Panel Raiser

discusses making a wooden hand plane in a concise manner with excellent drawings. The geometry involved is examined in detail.

6-Board Chest shows how to make furniture efficiently by traditional hand tool techniques.

A 17th Century Joiner’s Life

details Peter Follansbee’s career at Plimoth Plantation and his use of green oak and pre industrial tools.

Hollow Chisel Mortiser has all the mortiser information you need!

This is a magazine always worth buying and reading cover to cover.

Popular Woodworking Blogs

Popular Woodworking is the best traditional woodworking magazine currently in print. The magazine also has online publications.

Blog Network

Popular Woodworking Blog Network is a guide to what is available online. Every blog is of some interest. For example;

The Evenfall Studios are a rich source of digitalised textbook and old woodwork related publications.

The Kilted Woodworker may be a bit eccentric but still worth a look.

Google *Popular Woodworking Blog Network* and be prepared to spend a few hours browsing.

Popular Woodworking blogs by some of the magazines' regular contributors are rich sources of information on traditional tools and techniques. Interest in older methods of working wood and traditional tools continues to grow.

Chris Schwarz Blog

Chris Schwarz is a previous editor of *Popular Woodworking*. This blog is a rich source of information.

Long a woodworker of traditional techniques, Schwarz is dedicated to restoring the fine hand wood working skills that have slowly disappeared from woodshops in the latter half of the 20th century. He is a firm believer in the role traditional tools play in the modern shop.

Arts & Mysteries Blog

Adam Cherubini, the well-loved (and long-time) Arts & Mysteries columnist for Popular Woodworking Magazine, shares his thoughts on 18th-century woodworking techniques, tools and projects on this blog. He's often controversial – but never boring. Adam's approach to the craft is entirely hand-tool oriented – and he also reproduces period hand tools for use in his shop. You'll read about his research into period shops and practices, and find out more about his tools and thoughts on “modern” wood working and more.

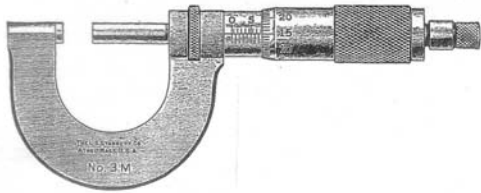
Editors' Blog

The Popular Woodworking Editor's Blog is the best place to learn the latest happenings in the wood working industry and the wood working online community. It's also a reliable source of woodworking articles, videos and advice from seasoned woodworkers.

Contributors' Blog

Popular Woodworking Magazine contributors submit entries for this blog on any aspect of woodworking – design, hand tools, power tools, inspiration, project builds (perhaps even an instructional how-to series on a build!), upcoming shows – anything woodworking that crosses their minds. All submissions are approved of the magazines' staff.

Happy Blogging!



THE TRADITIONAL TOOLS GROUP INC

2014 TOOL SALE

Over 40 tables of Quality Old Tools
All types of user and collectable tools
Tools to suit Tradesmen, Amateurs and Collectors
Tools for all Traditional Trades

SUNDAY, 23 February 2014

DOORS OPEN 9am DOORS CLOSE 1pm

THE BRICKPIT SPORTS STADIUM

1A Dartford Rd, Thornleigh NSW

\$5.00 Entry

Plenty of **PARKING**

Close to Normanhurst Railway Station

Reasonably priced refreshments

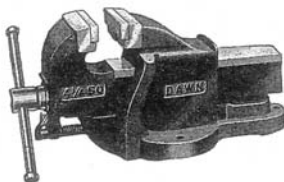
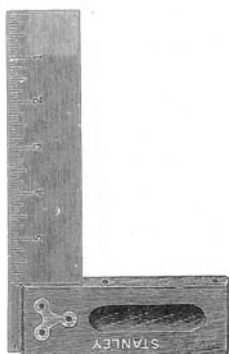
Enquiries:

clyntsheelhy@tttg.org.au

☎ (02) 9416 7134

TTTG(Inc) 2014

www.tttg.org.au



THE TRADITIONAL TOOLS GROUP INC.

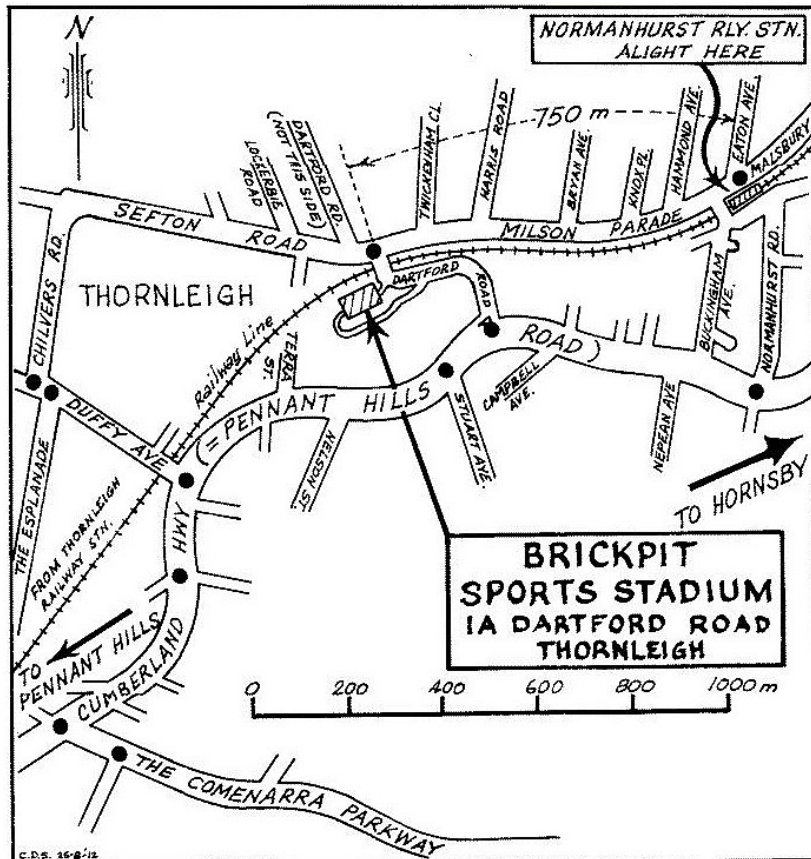


TOOL SALE

SUNDAY 23rd FEBRUARY, 2014

9AM - 1PM

AT THE BRICKPIT SPORTS STADIUM
1A DARTFORD ROAD, THORNLEIGH



Over 40 tables of user and collector tools.

ENTRY \$5 / hd

(Disinterested spouses and accompanied children free)

Free Parking Refreshments available

Sale is indoors on basketball court; it's on wet or dry. Please wear shoes with non-marking soles.

Gregory's / UBD Map Reference: D9 on Map 221

(If you're coming by train, alight at Normanhurst Railway Station and walk south-west 750 metres.)

Traders please contact Clynt Sheehy on (02) 9416 7134 or treasurer@ttg.org.au

Tables are 1800 x 720 mm and rent at \$40 each



THE TRADITIONAL TOOLS GROUP INC

2014 TOOL SALE

Over 40 tables of Quality Old Tools

All types of user and collectable hand tools

Hand tools to suit Tradesmen, Amateurs and Collectors

Hand Tools for all Traditional Trades

SUNDAY 23 February 2014

DOORS OPEN 9am DOORS CLOSE 1pm

The Brickpit Sports Stadium

1A Dartford Road Thornleigh

(See map on previous page)

\$5.00/head Entry

Plenty of **PARKING**

or a stroll from **Normanhurst Station**

Sellers please contact Clynt treasurer@tttg.org.au

