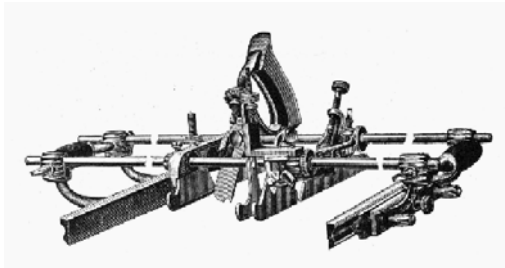


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We buy and sell more antique and used woodworking tools than anybody else in Australia.

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Hans Brunner Tool Auctions

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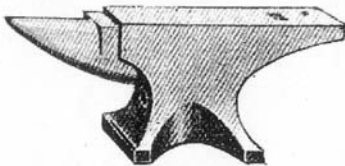
SALVAGE

42

ROSS ST GLEBE

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TGT



Newsletter No. 71 June 2003
The Traditional Tools Group (Inc.)
www.tttg.org.au

TTTG Inc.

THE TRADITIONAL TOOLS GROUP (Inc.)

TTTG Newsletter No. 71. June 2003.

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Editors Notes.

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Australian Made.

Home Made Tools.

Machine Mortising.

W F Barnes Foot Power Mortising Machine.

Library News / Directory.

Advertisements.

Cover: Graphic appropriated from an advertisement for
Solon Electric Soldering Irons, English Mechanic 6-12-1940.

Subscription Rates :

Sydney \$30. Overseas \$30.

Out of Sydney, Other States and Australian Pensioners \$22.50.

Postal Address.

The Secretary TTTG (Inc.)

P.O. Box 240 Grosvenor Place

Sydney N.S.W.1220.

Enquires: Mike Williams

02 9144 6356

Bob Crosbie

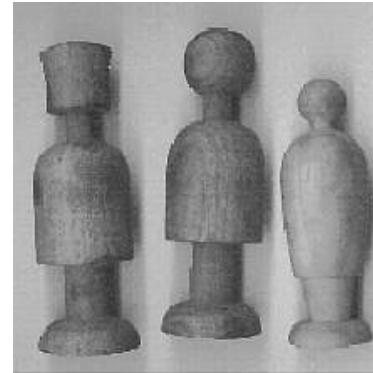
r.crosbie@bigpond.com

tttg.org.au

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2003-04 Memberships are due on the 1st of July, 2003.

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Advertisements.

RATES.

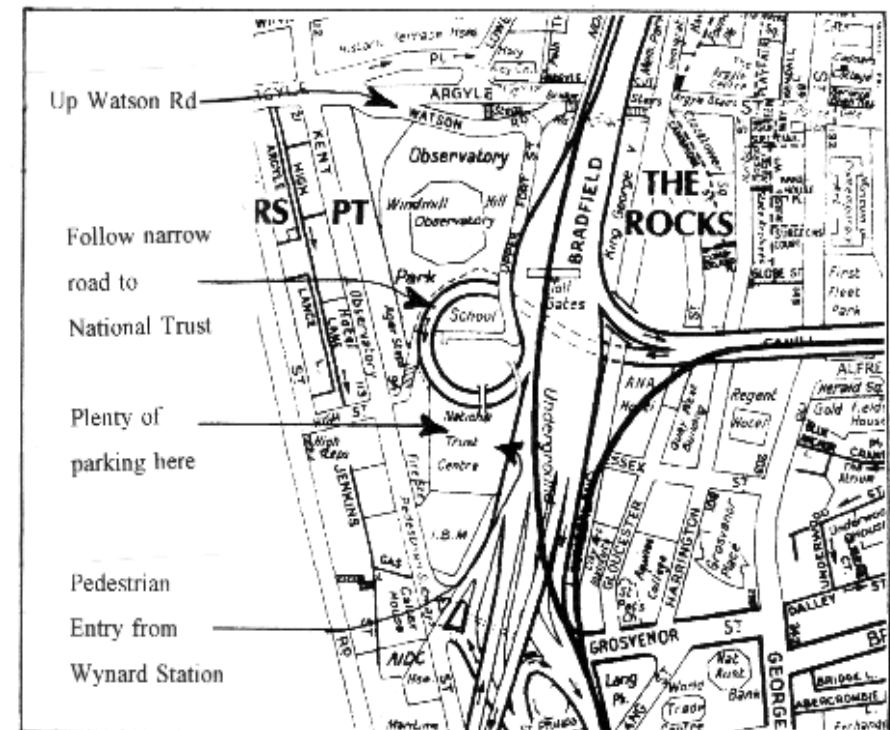
All **WANTED** and **FOR SALE** advertisements are free.
Quarter Page \$10 per issue. \$50 per annum.
Half Page \$15 per issue. \$80 per annum.
Full Page \$20 per issue. \$100 per annum.
First placement is free.

WANTED

- Heavy Firmer Chisels wanted by working carpenter.
Not after mint chisels. User chisels only.
Square edge chisels all sizes 1" and above.
Contact Mick Dowling. Phone 03 93863481 or 0407 544338.
email: itshimselfthen@bigpond.com
- Any planes made by Jas. McLaren Melbourne, even a photo.
Spiers or Mathieson Thumb, Chariot, and any Gunmetal Planes
Phone Jim Black. Phone 0351 825561.
- 720 Stanley chisel (marked so) in 1 1/4 width (VG condition)
Stanley block plane #140, a screw for side.
peterrevans@optushome.com.au
- Millers Falls straight screwdriver bits for model # 620.
Similar to "Yankee" ratchet screwdrivers. Direction changed with a collar. Bits have notch about 8mm in diameter. Kim 0419437877 or 96991205.
- Australian made implement wrenches and spanners.
Anything either marked as Australian Made or known to be so.
Also ones from Railway workshops and other enterprises.
Evans's History of Farm Implements in New Zealand.
George Radion. Phone 03 9557 1178, radion@iprimus.com.au,
- Shaper/Planer tools and tooling, any condition.
Micrometers, complete or parts, all types, cash paid.
John Bates. Phone Business Hours 02 9931 1467, After Hours 02 9859 5094.
urbansystems @ big pond.com
- Blacksmiths Post and Bench Drills, hand or power, any condition, up to 1940.
Buffalo, Champion, Silver, Globe, Dawn, Goodall Pratt, Union.
Rick Mitchell. Phone 4751 4762 or 4751 9797.

Next Meeting
National Trust Centre,
Observatory Hill.

Tuesday 10th June 2003
Annie Wyatt Room
Commencing at 7:00pm



PROGRAMME

- 1. TOOLS AND JIGS. A SELECTION OF TOOLS MADE BY MEMBERS WILL BE ON SHOW AND DISCUSSED AS WELL AS MANY INGENIOUS JIGS FOR THAT SPECIAL PURPOSE. MEMBERS ARE INVITED TO BRING THEIR INDIVIDUAL ITEMS ALONG.**
- 2. THE TALK WILL BE FOLLOWED BY FRED'S WOTSIT.**
- 3. OUR FUN AUCTION.**
- 4. SUPPER BY MARIO DATO.**

Next Meeting.

Topic: TTTG Tool Makers.
Time: Tuesday Evening 10th June 2003.
Location: National Trust Centre. Annie Wyatt Room.
Observatory Hill. The Rocks. Commencing at **7:00 pm.**

The prizes won by TTTG members in the recent Australian Wood Review tool making competition suggested the subject of the April Meeting. This meeting was so successful that another chance to see the work of our members seems appropriate. The subject has been expanded to include all types of tools. Metal working and other tools will be given exposure along side the “glamour” wood working tools which usually steal the lime light. The tools to be on display are too numerous and varied to innumerate here.

THIS PROMISES TO BE ANOTHER “NOT TO MISS” evening.

After the presentation the audience will have the opportunity to bid at the TTTG Auction. The items sold are knocked down at such low prices that the auctioneer strongly rejects the criticism that he will go to any lengths to secure the highest price. **For bargains do not miss this auction.**

Previous Meeting.

Topic: How I make planes.
Presenter: David Chee.
Time: Tuesday Evening 8th April 2003.

Over fifty TTTG members and guests attended this meeting. The planes made by David Chee were universally admired, and coveted. As a bonus Jim Davey and Bob Sheehan also displayed superb planes. David Chee proved to be a speaker with a direct no nonsense manner. The audience hung on his every word during the talk and spent the time before the auction examining the planes made by David, Jim and Bob.

Following the “intermission” the auctioneer offered a vast collection of ironmongery. Can such bargains ever be repeated?

2003-04 Memberships are due on the 1st of July, 2003.

Library News.

Rick Mitchell

Periodicals Received.

- Hand Tool Preservation Society of Western Australia. (HTPSWA). Newsletter. The Benchmark.
- Hand Tool Preservation Association of Australia Inc. (HTPAA). Tool Chest/Sharp Edge Vol.14 No.3. Issue 65, August 2002.
- TATHS. Tools and Trades History Society. Newsletter 80 Spring 2003. Journal Vol. 13.

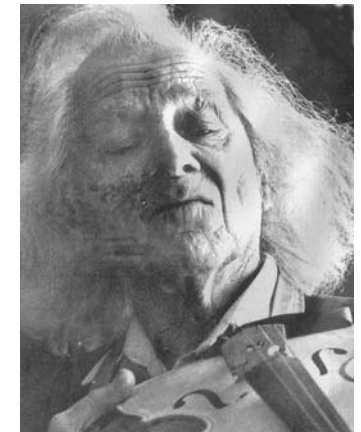
Directory.

- The Traditional Tools Group Inc. (TTTG). tttg.org.au
P.O. Box 240 Grosvenor Place. Sydney N.S.W.1220.
Enquires: Mike Williams phone 02 9144 6356
Bob Crosbie e-mail : r.crosbie@bigpond.com
- Tools and Trades History Society. (TATHS)
Membership Secretary: Jane Rees.
Barrow Mead Cottage. Rush Hill, Bath. United Kingdom.
BA2 2QP 01225 837031 (Office hours only).
- Hand Tool Preservation Association Australia. Inc.(HTPAA).
P.O.Box 1163 Carlton. Victoria. 3053.
- Hand Tool Preservation Society of Western Australia. (HTPSWA).
8 Belham Street, Bayswater. Western Australia

Obituary

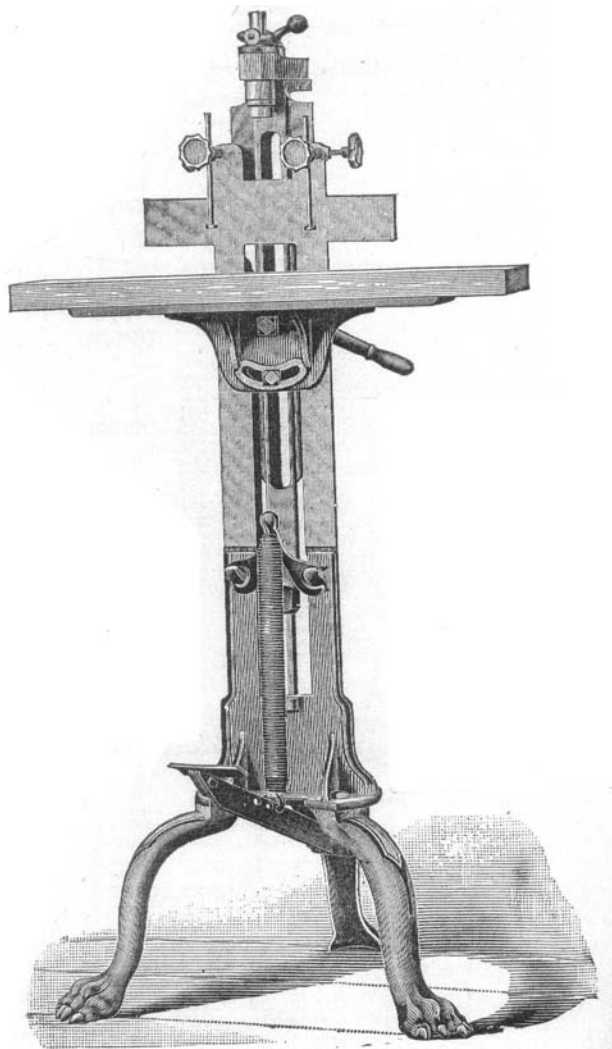
John Godschall Johnson

It is with great sadness that we recently learned of the death of “Johnno” Johnson at the age of 90. John was a honorary life member of TTTG and an enthusiastic violin maker who never sold his creations but gave them away to those whom he thought were deserving or could not afford to buy an instrument themselves. Many of our members will remember the occasions when he addressed our group and demonstrated the tools and materials of the traditional violin makers. For many years, John entertained children and adults alike at the Timber and Working with Wood Show with his lively patter and demonstrations. His flowing white hair added to his presence on these occasions and he was a great favourite with the children. He will be sorely missed



Machine Mortising.

W F Barnes Foot Power Mortising Machine.



Audels Carpenter and Builders Guide. Volume 4. New York.1946.

Editors Notes.

By the time News 71 is distributed two TTTG events will be over. The Historic Houses Trust Rouse Hill open weekend, 17th & 18th May, was unfortunately cancelled at the last minute due to the torrential rain. We have received a letter from Historic Houses apologising for any inconvenience and said that they hoped that we would exhibit again next year weather permitting! On Saturday 31st May TTTG held a workshop on "Plane Fettleing" at the Meadowbank Wood Works Shop. This was well attended and we plan to repeat the workshop due to the expressions of demand received.

Before News 72 is due to be published another annual TTTG event will occur. This is the 2003 Sydney Timber and Working With Wood Show. This year TTTG is planning a "bigger and better" display. More "hands on" activities and better interaction with the public. To achieve this we need volunteers.

After News 72 has been published and after the **August** General Meeting **Sunday 17th** will roll around. Put this date in your diary and cancel everything. This is the day of **Henry's Sydney Tool Sale**. TTTG will, as always, be present. In order to present a "bigger and better" display we need volunteers.

The June General Meeting is an opportunity to see examples of tools made by TTTG members. The two previous meetings have been so well attended that it seemed appropriate to offer another chance to see quality homemade tools. **Members are invited to bring examples of user made tools to the meeting.**

WHAT IS IT? NEWS 70.

The tool illustrated in News 70 is **The "Klincha Belt Cutter"**. It is a portable Belt Lacing Machine. The illustration was taken from Fowler's Mechanics' and Machinists' Pocket Book 1952. (Manchester.) This portable Belt Lacing Machine was part of a range of Line Shaft Belting repair tools made by W. T. Nicholson & Clipper Co. Ltd. (Stockport).

The "KLINCHA"
VICE TOOL

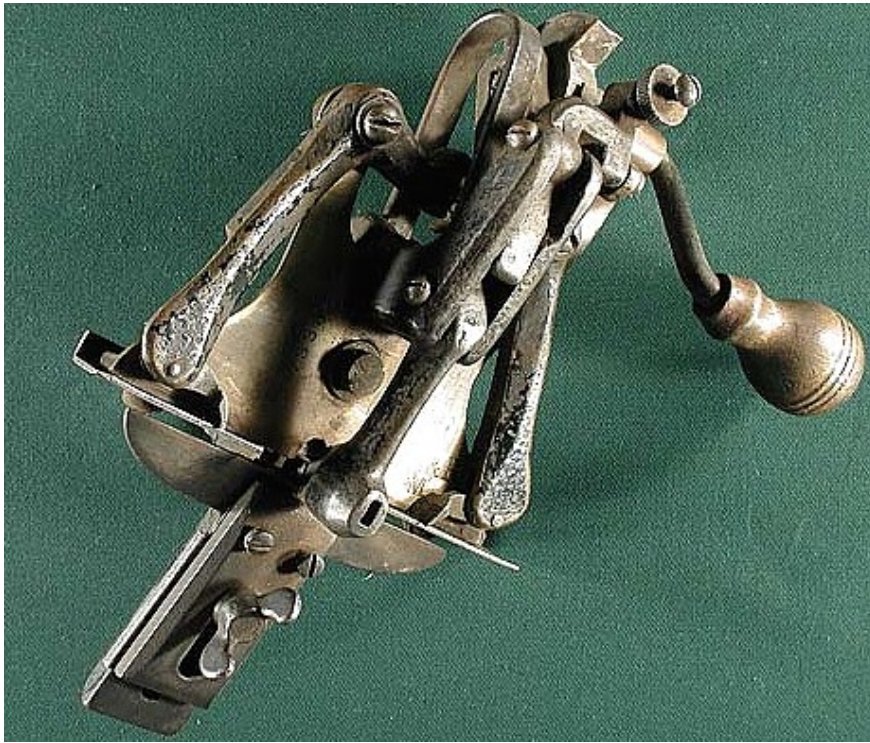
REPAIRS ANY
THICKNESS
OF BELT UP TO FOUR
INCHES WIDE IN ONE
OPERATION.

See advertisement on page xxii.



W. T. NICHOLSON & CLIPPER CO. Ltd.,
Clipper Works, Hague Bar Road,
Strines, Nr. Stockport.
Phone: New Mills 3192 Telegrams: "Clipper New Mills."

What is it?



Machine Mortising.

Elementary combined reciprocating and oscillating type mortiser.

No prizes for getting this one right. The image is from Workingtools "Tools for Sale".

Some Web Sites of interest.

Hans Brunner Tools. <http://www.hansbrunnertools.gil.com.au>

A new range of tools for sale. Some real bargains are currently listed.

Workingtools. <http://www.workingtools.com.au>

A new improved format. Lots of tools and books. Excellent descriptions.

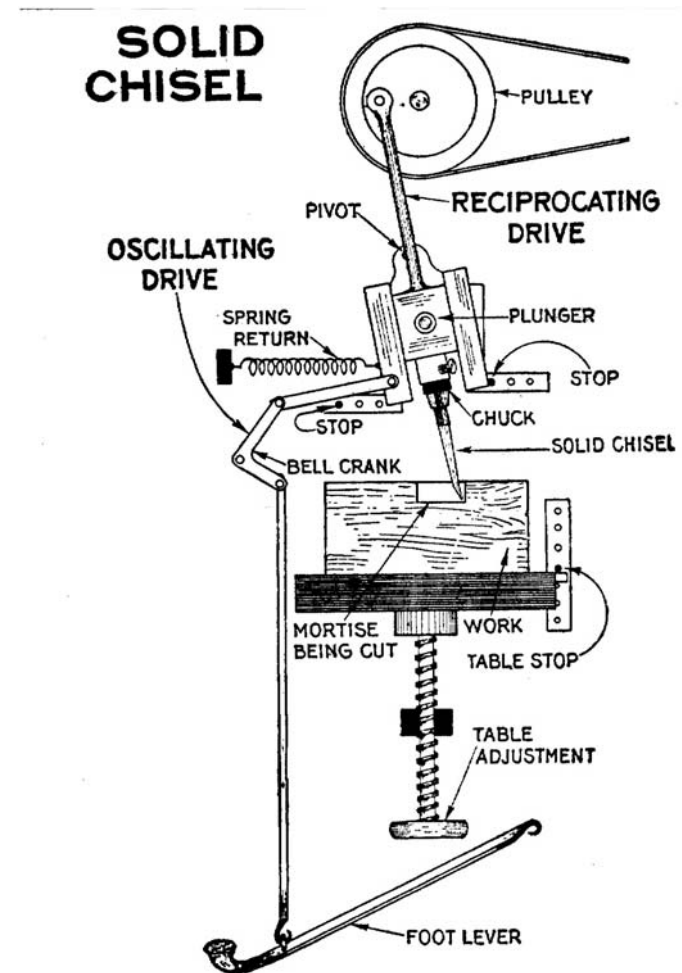
Plough Book Sales. <http://www.ploughbooksales.com.au>

A "model engineer" link. Many hard to find metal work books and some "tool titles" and "tool catalogue" reprints. Very good prices.

Ozitoil Mail.

Follow the link on the TTTG Web Page. <http://www.tttg.org.au>

2003-04 Memberships are due on the 1st of July, 2003.



Audels Carpenter and Builders Guide. Volume 4. New York, 1946.

This is the second in a series on machine mortising.

News 71. Hollow Chisel Mortiser.

Elementary combined rotary and reciprocating type Mortiser

TTTG Tool Makers.

The first three prizes in the recent Australian Wood Review Tool Making Competition were awarded to TTTG members.

A typical response is reproduced below.

“Message from Oztoolclub, (Ozitoool Mail).

Posted by: Norton Truter .

I got the Australian Wood Review #38 from my local library.

The tool makers are brilliant...

actually the whole magazine is brilliant, 'nuff said.

Those prize winning tools are gorgeous! I would love to attend your meeting... but I live in Melbourne.

I will just have to drool over the pictures. Any chance of a more detailed article on the making of this tool, especially for those of us who have no idea what goes on when making a tool, e.g. what is "double dovetailing" and what is "peening the brass into the steel"?

There is also an article by HTPAA member Kevin Chamberlain on restoring old wooden tools, using a plow plane as a worked example.”

Such positive comments, coupled with the record attendances at this years' Meetings, suggests a demand for instruction in tool making techniques.

The Committee seeks comments on two proposals.

1). Proposed publication.

“TTTG Tool Makers”.

A small booklet on tools made by TTTG members. Photographs and text.

Some makers have been approached and some photos submitted.

Submissions are open to all TTTG members.

2). Proposed Workshop.

“Tool Making Skills”.

A “hands on” workshop.

Metal working:- bench and lathe skills.

Wood working:- precision planing / sawing skills.

Tool making:- dovetailing, heat treatment.

Duration:- One day, maybe two sessions.

EMAIL THE EDITOR ON r.crosbie@bigpond.com

Australian Made.

Where is Graham now?

An article from the Daily Telegraph Hardware Supplement, Wednesday January 25, 1956 was reprinted in News 70.

A reward was offered to the first person to locate Graham.

No one has claimed the one years' TTTG membership.

Rod Thomas comments,

“I don't know where Graham Buckett is now but I reckon it's a Carter he has in his hands. Maybe you could ask him when you find him, you never know, Graham may make an appearance.

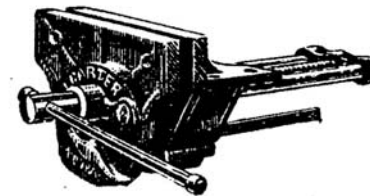
I suppose we should take bets on the make of the plane he is holding.

What odds on Carter, Pope or Turner?

Definitely not a Turner, didn't start making them till 1960 - 61.

And by the mark on the lever cap sure bet it's Carter.”

Cheers Rod.”



Use Australian made

CARTER TOOLS

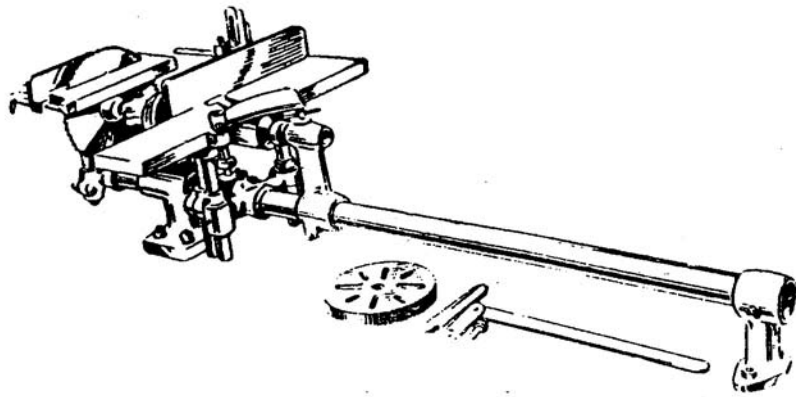
- CARPENTERS' PLANES
- WOODWORKERS' VYCES
- ENGINEERS' VYCES
- “G” CLAMPS

“Herbert” Home Workshop.

The two decades after World War 2 were boom years for DIY.

Many universal woodworking machines were manufactured for the home handyman market. These machines were pretty basic in comparison with today’s machines. Even so the makers claimed that their machine could do any and every thing.

The Australian made “Herbert” Home Workshop is a typical example.



Goodall & Co. Pty. Ltd. Sydney, Catalogue No.5, 1955.

Correspondence.

Horatio sent an email to several TTTG members, accompanied by a series of photographs. The pictures are too large to reproduce but the text will resonate with most readers.

“Gentlemen,

I thought you might appreciate these photos I took at the recent Swap Meet held at the Showground, Goulburn. I departed from Wollongong at 5am, picked up John Daniel at 5.30am from Kiama, and we made our journey up the Illawarra escarpment via Jamberoo, through Robertson, Moss Vale and outlying towns, before arriving at Goulburn Showground at around 7am.

By then, tool-crazy hordes had already descended upon the many and varied stalls that had been set up around the showground in ad hoc fashion the day before. Despite the fog and near freezing temperatures, John and I made a brisk run-around, picking up the odd bargain.

Most items scattered on trestle tables shone from condensation deposited throughout the night, and some of the salesmen showed all the classic signs of fatigue from lack of sleep in cold conditions.

Haggling for a better deal was going to be tough, to say the least. One fellow tried to sell me a set of old encyclopaedias, when I commented that I already had one of the volumes, acquired recently at a school fete. The \$100 asking price could not be justified, especially since I had only paid 20 cents for the single volume.

Anyway, the sun was out by 9am, and the temperature scale had climbed a few notches, with more bargain hunters descending upon this patch of earth by the hour for that rare find. We had covered each aisle of stalls at least twice by 10am, and decided to stop for tea and coffee, before heading home to the south coast with our treasures.
Cheers, Horatio.”

WANTED.

Volunteers for the TTTG Stand.

Where

Sydney Timber and Working With Wood Show.

Friday 20th, Saturday 21st, Sunday 22nd, June 2003.

And also

Henry’s Sydney Tool Sale.

Sunday 17th August 2003.

EMAIL THE EDITOR ON r.crosbie@bigpond.com

Correspondence.

Stanley 3 inch Belt Sander.

I wonder if you can help me. I have an old Stanley 3 inch belt sander made in the US. I think it is probably 1960's. It is type and model H-31X1. I think they are fairly common as I have seen several. I bought it at a garage sale for a couple of bucks. When I tried it out I was surprised to find it is a superb sander much better than modern ones I have used. I had it rewired and use it all the time. The other day through a bit of carelessness on my part I jammed the drive drum and broke the notched drive belt. The drive belt is marked Stanley electric tools MS-1774. I went to a couple of electric tool repairers who sent me to Powergrip all to no avail. I've had a look on the internet but can't find any sight that I can even get an idea from about where I could get a replacement. Is there anyone at Traditional Tools who has an interest in old electric tools who could give me a suggestion of where to look, here or in the US. I haven't contacted anyone like Hans Brunner or his equivalents abroad as I'm sure this type of tool is of no interest to them.

It would be great if you can give me a lead as it would be a shame for a good tool to become inoperable just because of a broken rubber belt.

My telephone number is 02-9660-0751 and I live in Annandale in Sydney.

Many thanks

Richard Dudley-Smith

Hand Tool Preservation Association of Australia.

TTTG members may be aware of the HTPAA involvement with the Victorian National Trust and management of the "Caine Tool Collection".

As part of Open Heritage, *behind closed doors*, 8th March - 27th April 2003, an initiative of the National Trust, the property Glenfern was open to the public on Saturday the 12th and Sunday the 13th April, 2003.

A room was set aside to display a selection from the Caine Collection. There were several display panels - demonstrations plus a selection of tools, some of which are not normally displayed, also a fitted tool chest.

During the same weekend HTPAA presented a display and demonstration as part of "In touch with wood" Woodwork Festival Weekend.

There is a link to HTPAA on the TTTG Web Page.

<http://www.tttg.org.au>

EMAIL THE EDITOR ON r.crosbie@bigpond.com

German Improved Plough Plane.



This "improved" plough plane is from Hans Brunner's Tools for Sale. For ingenuity the blade holding mechanism equals anything from the American or British "improved" plane makers. The manufacturing quality is also excellent.

Hans describes the plane as a

"Very rare German adjustable beech plough plane. I know of only 3 in private collections. This one is actually the only one with the D.R.G.M. number 147505 on it. It stands for Deutscher Reichs Gebrauchs Musterschutz, a model registration that was easier and cheaper to get than a full patent. Excellent overall condition, some slight bruising to stems.

DRGM number suggests manufacturing date around 1900."

<http://www.hansbrunnertools.gil.com.au>

Temple Plane Guide.

Temple Engineering Pty Ltd , Camperdown Sydney, manufactured a plane guide which for simplicity and performance was second to none.

A far better design than say the much sought after Stanley product.

Can any one donate a copy of the instructions to TTTG?



Photograph courtesy of Hans Brunner.

Correspondence.

Latest news from TTTG's Tasmanian Correspondent.

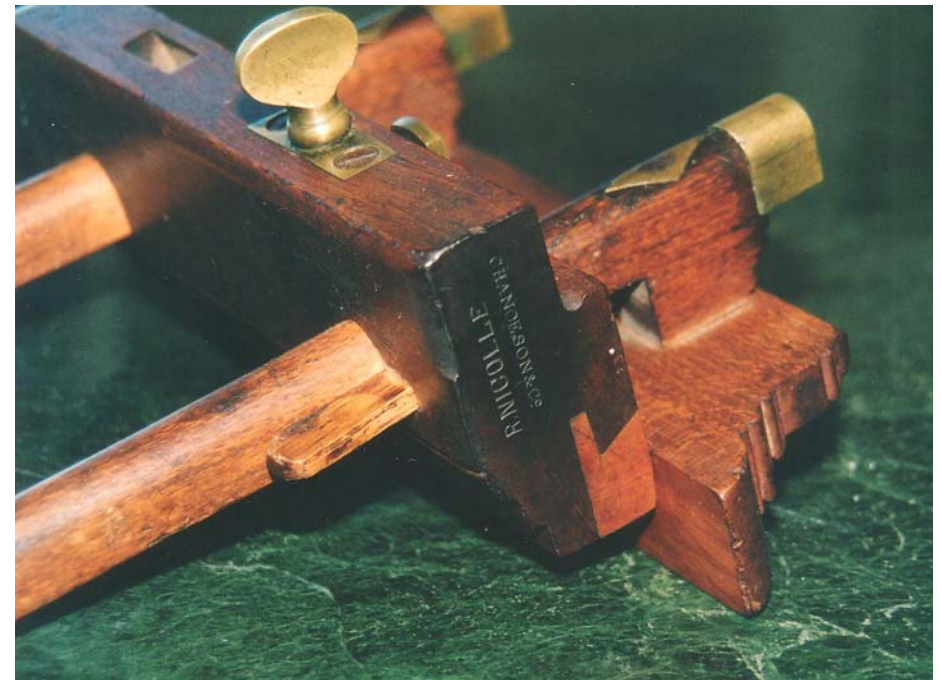
While resurrecting a portion of some neglected planes I discovered a Sash Fillister plane. It has a slip boxed sole, staves with brass tips and box wedges and brass depth stop and thumb screw. The staves are riveted to the fence. Sorry to say there is no blade or wedge. The moulding on the fence is elaborate and well defined, fine and crisp, perhaps a little stained from the rivets.

The name stamped on the plane gives it away;

CHANCESON & Co.

The photo gives a clear impression of the makers' stamp and quality.

Terry Butcher.



EMAIL THE EDITOR ON r.crosbie@bigpond.com

Information Wanted.

“Herbert” Home Workshop.

The “Herbert” Home Workshop appears in the Goodall & Co. Sydney No. 5, 1955 tool and machinery catalogue.

The advertisement alludes to several Herbert Home Workshop models.

However only the Model “C” is described.

The Herbert Home Workshop was made in Australia.

Does any one have any information about the “Herbert” Home Workshop?

Where was it made, for how many years was it in production, were other “Herbert” machines manufactured?

Copies of other “Herbert” advertisements and Herbert leaflets are sought.

See: “Herbert” Home Workshop. for copy of the advertisement.

BUSHMANS CHOICE and AUSSIE SPEED Axes.

Robert Firth is seeking information about the above axes.

“While we are on the subject of axes. Who made (in the USA) the BUSHMANS CHOICE felling axe and the AUSSIE SPEED racing axe?”

See also Information Received, Jack Goldsmith's axes.

John’s Pages.

Work is currently in hand on a compilation of articles by John Daniels.

A tile has been finalised. The publication will be title **John’s Pages.**

This is now at the layout stage.

The editor believes an A4 format is most suitable.

This will allow quality reproduction of the illustrations.

Carter Plane Leaflet.

The Reprint of an undated Carter Tools colour Leaflet is now available.

Cost is \$5 each, post extra.

Anthony Horden’s Catalogue.

Work is also currently in hand on a series of Extracts from an early Anthony

Hordens’ Catalogue.

John’s Page.

I enjoyed cleaning up this relic of yesteryear and had a feeling of satisfaction drilling a few holes with it. As I tried to fit it into a toolbox assembled, however, I found it a problem, much easier to disassemble it and store the parts separately. Come to think of it, the parts took up as much space as a normal brace plus a breast drill. No wonder the drill attachments were lost.

Please Note: If anyone out there has an unwanted attachment that may fit either of my incomplete braces, or on the other hand, if you need a brace to fit that attachment, I would only be too happy to arrange a reunion.

John Daniel



Photo 2. The Millers Falls brace disassembled to show the post and ring attachment. Note the indentation on the post and the locking pin protruding through the ring.

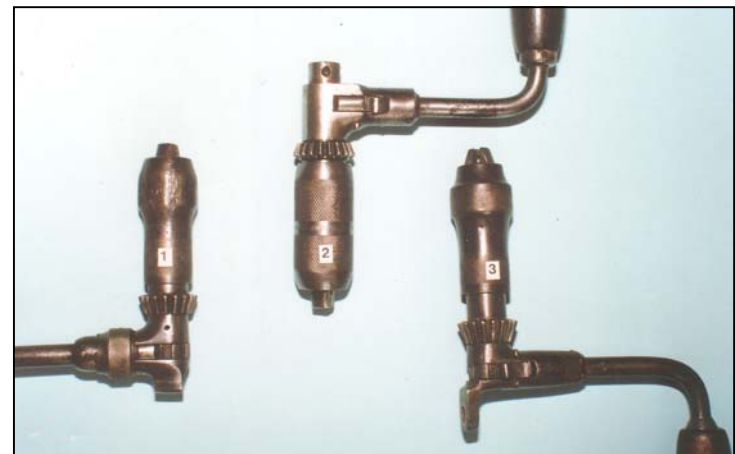


Photo 3. No.1 Henry Boker. No.2 Millers Falls. No.3 Conn. U.S. (name of maker illegible).

"I've got an old fashioned wood-drilling thing at home"

"What are you usually looking for at the markets mate?", was asked of me as I was putting some newly found treasure into the car boot. "Mostly old tools", was the predictable answer. The curious fellow was parked next to me and was tinkering with his car's engine. "Still a bit of life left in the old girl yet", he said as he affectionately patted the bonnet as he closed it. "If you're looking for old tools mate, I've got an old wood-drilling thing at home. I live close by, so if you're about to go, you can follow me, I live just out of town". "Just out of town" happened to be several kilometres down the road, then up the dirt track for three or four kilometres before he pulled up at a farm gate.



Photo1. The Millers Falls brace assembled

About fifteen minutes later, after a lot of rummaging around he appeared at the door with his "wood-drilling thing" which happened to be a nice old "drill-brace" made by Millers Falls, very rusty and almost seized up, however, a nice old tool just the same. It begged me to take it home.

R. A. Salaman in his revised edition of "Dictionary of Woodworking Tools" states that the drill-brace is "a joiner's brace, usually of the ratchet type, with a hand drill attachment, which, when put into gear, enables the brace to be used as a breast drill". I had previously found two other similar braces, however, both were incomplete, one made in Conn. U.S. (maker's name illegible) and the other manufactured by Henry Boker of Germany. Perhaps the owners of these braces had no use for the hand drill attachment and as the tool is fully functional as a brace without it, they survived in their owner's toolboxes.

The method of securing the drill attachment to each brace is different, although there is a similarity between the Henry Boker (No. 1 in photo) and the Conn. U.S. marked brace (No. 3 in photo). In these two braces a centre pivot pin passes through the centre of the crown wheel and screws into a threaded small bracket extension above the chuck. The Millers Falls brace (No. 2 in photo) seems to be a more positive connection. The chuck shaft is extended to form a post for the location of the attachment. Once in position, a side handle is tightened to lock it all together.

Information Received.

Jack Goldsmith's axes.

Robert Firth has provided some information about the axes in News 70.

"The tomahawk looks like a special, perhaps a lathing hatchet with smiths marks instead of a manufacturers trademark.

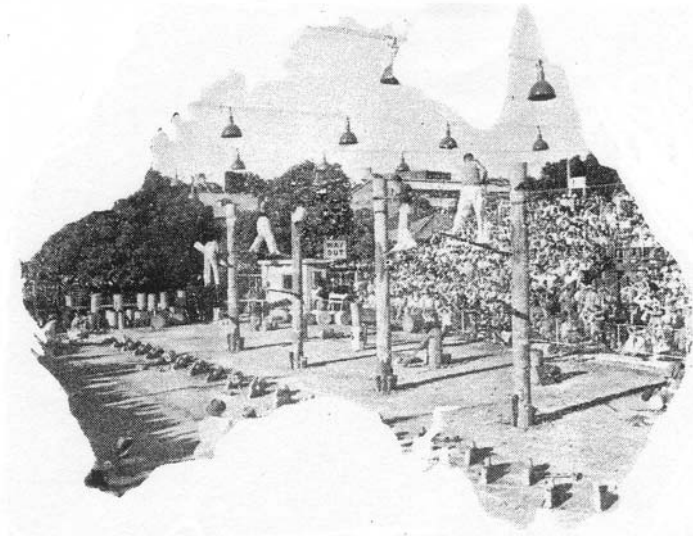
The broad axe appears to be:

D. SHARP'S MFDBY
DOUGLAS AXE MF'G CO.

Douglas Axe had a chequered history.

Founded in the late 1830's, absorbed into the American Axe and Tool Manufacturing Co in 1910, acquired by Kelly Axe in the early 1920's when AA & M Co ceased operations. During this time and even (it is thought) after being sold to Kelly Douglas's brand names such as Sharps were sold as manufactured by Douglas.

The axes are difficult to date, An AA & M Co Trade Mark together with the Douglas marks would date an axe between 1910 and 1923, without the AA & M Trade Mark age is uncertain unless the particular axe's history and prior ownership is known."



From an advertisement by Keesteel in the Hardware Journal, June 1, 1954.

Information Received.

Stand fast Rotary D-Scaler.

"I note in Newsletter No 70 a reference to Standfast. A copy of leaflet referring to product range is attached. I also have one of the "patent rubber sanding pads", but may have seen other items without realizing. Thomas Budden Pty Ltd were the Manufacturer's Representatives."
 Rod Thomas.

Leaflet (front side).

OTHER STANDFAST DRILL ATTACHMENTS INCLUDE:

 DRILL BIT (STD)	 DUCK KEY FLAP	 TEATHER GANDER
 TAP SANDING PAD	 PATENT SANDING PAD AND NETS	 5" x 7" FEATHER PAD
 LABOURER'S WHEEL	 DISC TACK ADHESIVE	 AMPERE

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MANUFACTURER'S REPRESENTATIVES
THOMAS BUDDEN PTY. LTD.
 31 VICTORIA AVENUE, CARLISLE, VICT. 3057

STANDFAST ROTARY D-SCALER



FITS ALL POWER DRILLS

Information Received.

Stand fast Rotary D-Scaler.

Leaflet (reverse side).

STANDFAST ROTARY-MK-3 D-SCALER



Clean

FOR HEAVY WORK — Light Weight, Easily Controlled — Low Cost Cleaning

For drills with chucks from 5/16" to 3/8". Even when applied to tough jobs like removing thick deposits of unwanted plaster or mortar from bricks, the load on the drive is light due to the free rolling action of the hardened Star Wheels which will not clog even on painted surfaces. Star Wheels are made of high speed steel, naturally hardened with the texture of the material being removed.

SPARE PARTS AVAILABLE.

NOTE: Always use a full set of wheels or damage may result.
 RECOMMENDED SPEEDS 1500 RPM-2000 RPM. (Not above 2500 RPM)

TO ASSEMBLE

1. Place Star Wheels on Axles and then "V" Spacer Washer last.
2. On to the threaded Arbor place the four Star Washers, the four Hexagon collar followed by the large Flat Disc — Screw Arbor part way into the hole and screw up to the top of the four radial holes.
3. Insert the 4 Axles with Star Wheels etc. into holes in body.
4. Tighten the four screws which and screw up body firmly to lock part the step in the end of the Arbor is designed to lock the four Star Wheels in place.
5. Assemble — reverse procedures.

Plaster or paint from —
BRICKS AND STONEMWORK

apply the Descaler gently to the surface then develop the pressure and force required to do the job fast and easily. Layers of plaster or old paint can be removed with little effort.

Old paint from —
TIMBER AND METAL

effortless and fast removal of weathered paint from any sound surface — no heat, no steam, no noise, no dust, no clogging — negligible friction — no heat scorching. Material is removed in flakes by high speed peening — not by abrasion.

Rust, paint or cement from —
CONSTRUCTION EQUIPMENT

rapidly prepares dirty, scaly or cement splattered surfaces for re-painting.

Marine fouling, rust, scale and paint from —
BOAT HULLS

hulls of steel, wood and fibre glass. Quickly cleans off unwanted materials — rotten timber will come away with other rubbish.

RECOMMENDED FOR LIGHT DRILLS — NOT ABOVE 3/8" CAPACITY