

THE TRADE TOOLS GROUP



THE  
TRADE TOOLS  
**TGT**  
GROUP  
INCORPORATED

THE TRADE TOOLS GROUP INC.

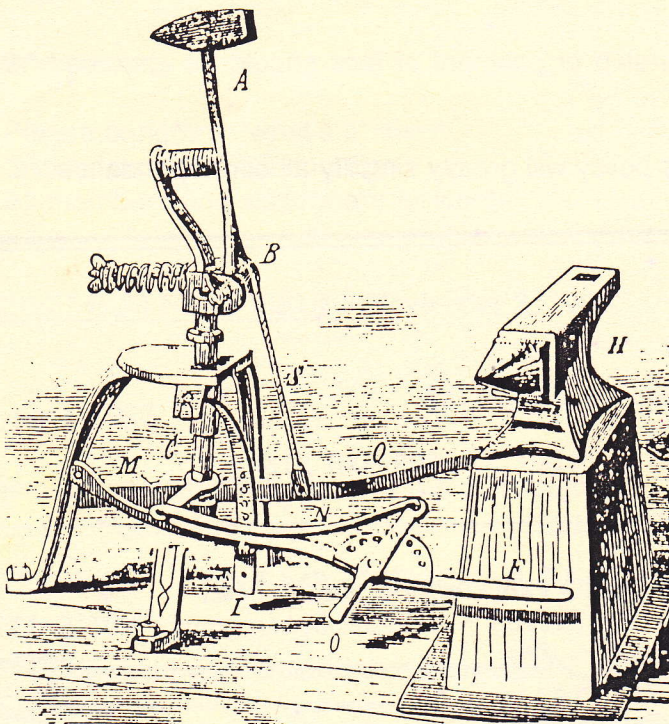
TTTG NEWSLETTER NO.13

OCTOBER 1993

PAINTER'S FOOT-POWER HAMMER.

The hammer handle is pivoted at B to the head of a vertical shaft, C, that is fitted in a socket in the top of the stand, so as to rise and fall, and to turn freely. The lower end of the shaft has a step in the lever, F, which is pivoted to the hind leg of the stand, and extends forward and alongside of the anvil block, where its free end is to be used by the operator for raising and lowering the hammer, as the work may demand. A bar, I, having a series of holes, is attached to the stand and arranged in a slot through the lever, F, for fastening the lever at any point by a pin, in order to set the hammer at the required height. An arm, M, is attached to the lower end of the shaft, C, over the lever, and is connected by a rod, N, to a lever, O, pivoted to the lever, N, near the anvil block, within easy reach of the operator. By moving the lever O, which is held in any position by a pin passing through holes in a plate on the lever F, the shaft is turned and the hammer swung along the face of the anvil.

The hammer handle is connected to a foot lever, Q, by which it is worked by a cord, S, which passes through a slot in the handle and connects by a ring with a rod, on which a coiled spring, W, is fitted, to be contracted when the hammer is forced down, for raising the hammer again. The spring bears against the head of the shaft, C, and the rod connects with the free end of the spring by an adjusting nut, which serves to regulate the tension of the spring. The shaft, C, has a vertical curved extension which supports a coiled buffer spring that arrests the hammer at the end of the up stroke without shock or jar. The hammer handle is adjustable forward or backward with relation to the anvil, by placing the pivot of the handle in slots; a thumb screw clamps the pivot in any desired position in the slots. This in-



vention has been patented by Mr. John L. Painter, of Bellevue, Ohio.

'The History of Tools is the History of Man'

THE TRADE TOOLS GROUP

GREGORY'S PAGE 6

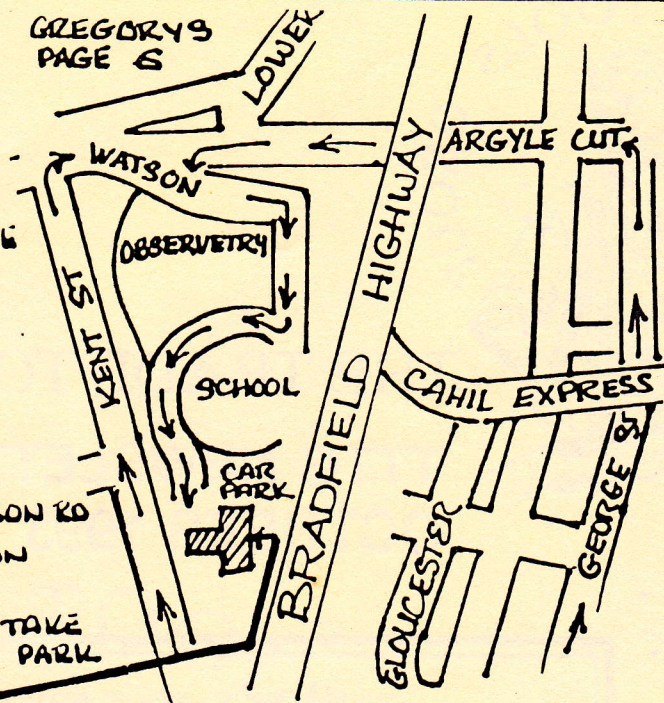
MEETINGS:

THE ANNIE WYATT ROOM  
NATIONAL TRUST CENTRE  
OBSERVATORY HILL

TIME:

COMMITTEE 7.00  
GENERAL 7.30

DRIVE OR WALK UP WATSON RD  
PASS THE OBSERVATORY ON  
YOUR RIGHT  
FIRST RIGHT ROAD WILL TAKE  
YOU UP TO A FREE CAR PARK  
FRONT ENTRANCE



DRIVE UP EITHER KENT ST OR GEORGE ST

CORRESPONDENCE

All correspondence to any committee member of TTTG should be addressed to:-

The Secretary, TTTG  
Mr Paul Gregson  
14 Railway Parade,  
Thornleigh, NSW 2120

Contributions for the newsletter should be forwarded to the above address and endorsed "Attention Editor".

Correspondence regarding membership or payment of fees should be endorsed "Attention Treasurer".

Co-operation with this one address policy will greatly simplify all correspondence.

NEXT MEETING

1. BOB NEWCOMBE ON SURVEYING
2. BRIAN EVANS - INTRO TO IRON AND STEEL
3. DRAWING DOOR PRIZE
4. UNUSUAL OR UNIDENTIFIED TOOL DISCUSSION  
(Member participation - please bring your "WOT'S IT?")
5. SUPPER

TTTG Inc.  
THE TRADE TOOLS GROUP

TTTG NEWSLETTER NO.13  
OCTOBER 1993

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M. Williams  
M. Williams

Cover: Painter's Foot Power Hammer  
see Improved Foot Power Hammer from  
The Illustrated Sydney News

Classified Advertisements

NEXT MEETING

October 12, 1993  
Annie Wyatt Room  
National Trust Centre, Observatory Hill

Topic:

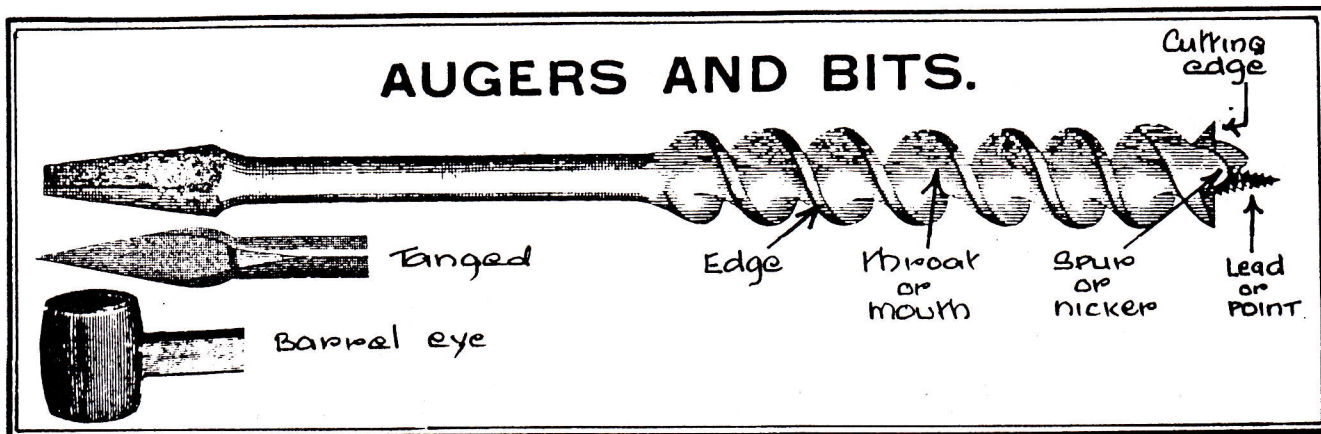
Speaker:

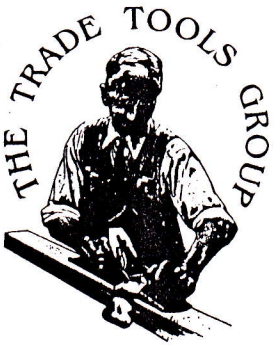
Please bring any "what's it" items.  
Supper provided. \$2 donation  
All members and visitors are welcome

"DEADLINE" FOR NEXT ISSUE: November 2, 1993

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Any opinions expressed are those of the contributor.





# THE TRADE TOOLS GROUP INC.

'The History of Tools is the History of Man'



14 RAILWAY PARADE, THORNLEIGH NSW 2120

TO: NEWSLETTER EDITOR

8th September 1993

## RETURN OF OFFICERS

The Annual General Meeting saw the following members newly or re-elected to the Executive and General Committee.

I wish to thank the members who have re-elected me and I congratulate those who, along with me, propose to work together for a common goal to serve you, our members, and abide by our constitution.

May I urge you to [(confront) (ask) (tackle) (suggest) (request) (plea) (beg) (reprimand) TICK ONE OR ALL OF ABOVE] see me at a meeting or send me a letter regarding your ideas for the Group.

Paul E. Gregson  
Secretary

President:	Terry Butcher
Secretary:	Paul Gregson
Treasurer:	Ray Gurney
Editor:	Bob Crosbie
Asst. Editor	Ian Goldsmith, Mike Williams
Newsletter Distributor:	Henry Black
Librarian:	Syd Bailey
Catering:	Mario Dato
Programme Organiser:	Maurice Brown
Research	Ralph Hawkins
General Committee:	Ralph Hawkins
Vacancy:	
Public Officer:	Fred Murrell (Position not opposed)

## PRESIDENT'S REPORT

Terry Butcher

We are now well into our second year and the annual election is over. The new committee will no doubt perform their duties diligently and justify the trust you have placed in them. If any members have any comments regarding any aspect of TTTG please feel free to contact the Secretary.

This year's Working With Wood Show again provided an opportunity for TTTG to communicate with the general public. The display was well received. Thanks to all members who helped to organise and staff the display.

We are planning an exciting programme of talks and activities for next year and hope most of you will be able to attend. Watch this newsletter for details.

## EDITOR'S NOTES

Bob Crosbie

At the General Election I was returned to the Committee as Editor of this newsletter. The newsletter committee comprises;

Ian Goldsmith	Assistant Editor, Layout
Mike Williams	Assistant Editor
Ralph Hawkins	Research Assistant
Henry Black	Distribution

This is a team which will ensure the continued improvement of this newsletter. I am particularly pleased to have Henry Black's expertise on this committee as he is certain to remove the "bugs" which have plagued distribution.

Despite his heavy professional commitments Mike Williams is keen to be more active. I plan to provide him with plenty of tasks for this newsletter.

Ralph Hawkins will continue to provide infectious enthusiasm and invaluable assistance in research.

The responsibility for what is printed rests with me as Editor. This is only half the battle and I am the first to admit the success of the newsletter depends predominantly on its appearance. The layout and graphics is the product of Ian Goldsmith's efforts. Without his input the newsletter would be a poor publication. I am sure all readers will share my view that Ian is doing a superb job.

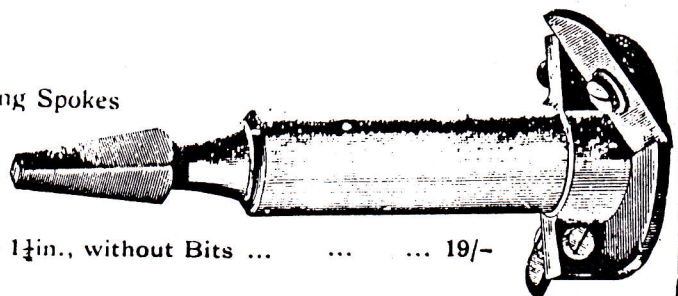
In forthcoming issues I do intend to make some important changes to the format. Members are starting to come forward with articles and the newsletter seems to be generating its own momentum. It is still a little "dry" but in time it will develop into a lively publication.

Thanks for everyone's assistance, write something and send it to me, via the Secretary of course.

**Augers, Hollow, new pattern, with Bit, for tenoning Spokes**

$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$
3/3	3/6	3/9	4/-

**Augers, Hollow, Universal, Swan's Patent,  $\frac{3}{4}$ in. to  $1\frac{1}{4}$ in., without Bits ... .. 19/-**



MESSAGE FROM OUR PROGRAMME ORGANISER

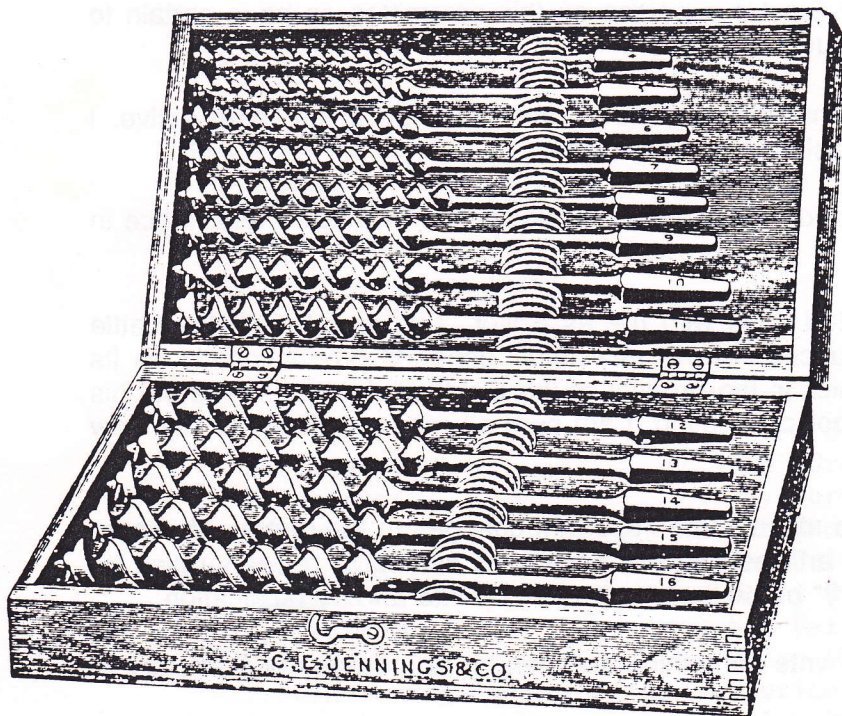
I am compiling a list of trades and potential speakers for forthcoming club meetings. The list of skills is endless.

There are many skills which are not necessarily trades but the degree of expertise required is quite high, for example, rope splicing, lace making, hedge laying etc.

So, as well as going 'outside' the group to find speakers, I'd like to know and draw on some of the wealth of skills within our own members. Even if you know of an interesting potential speaker, perhaps there's an orthopaedic surgeon in someone's family who'd bring his tools.

However, I'd be pleased to hear from anyone who can help in this area so we can continue to make our club meetings as interesting and worthwhile as they have in the past.

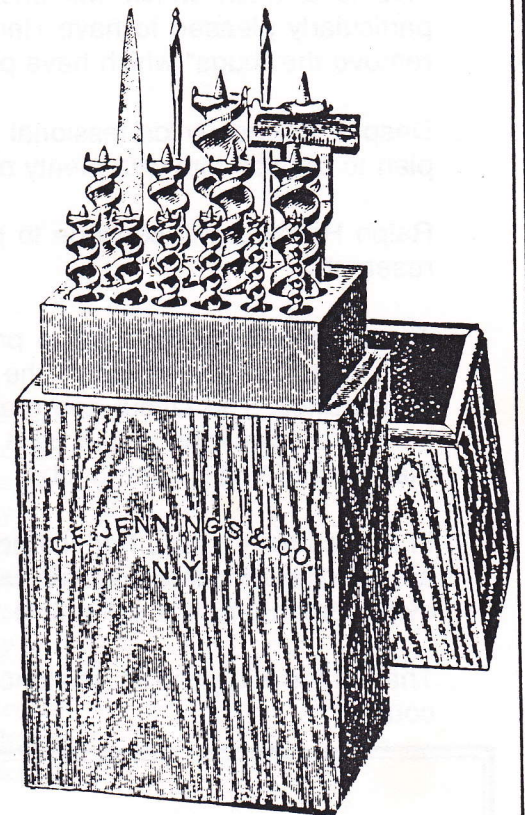
MAURICE BROWN



Set of Jennings' Bits, in case, from  $\frac{1}{4}$  in. to 1 in. (as shewn in illustration, No. 36)—  
15/- the set in box

Directions for sharpening accompany each set.

All the Augur Bits have Jennings' Patent Cutters.



Set, as shewn in illustration, comprising one Gimlet Bit, each 1-16th and 2-16th, one Jennings' Augur Bit each 4-16th to 13-16th, one  $1\frac{1}{2}$  Augur Bit and one Expansive Bit  $\frac{1}{2}$  to 3 in., one Half Round Bit File ... .. 22/- the set in box

## TALK BY RON BRILEY - "BRASS FOUNDRY"

(Tuesday 10 August 1993 - Annie Wyatt Room, National Trust Centre)

Many thanks to Ron Briley for entertaining us at the last meeting. Thanks also to his wife Ludwina for helping set up his display of brassware.

Ron worked as a foundryman for nearly 45 years in G.E. Crane which later became Crane Taps and was able to impart a deal of knowledge and experience to our members.

His 'intro' immediately caught our attention as his products were familiar to us all. Plumbers brassware, namely taps, sink wastes, water meters, 'S' bends elbows, tees, ball cock arms, ball valves, fire cocks and much more.

Firstly sand - the most desirable being a mix of fine beach sand, fine blasting sand and a clay binder mixed together with approx. 3% water produces a suitable sand for casting brass. Good sand will show a finger print impression when compressed.

Then on to 'snap boxes' used to shape the sand into uniform blocks with an impression of the pattern in each face. Some snap boxes were for jobbing only whereas tapered ones were used for production jobs. Weights had to be applied on top of sand moulds to stop them separating when metal was poured. He described making moulds entirely by hand and later by various labour saving machines and ultimately the Disamatic continuous moulding machine.

Ron referred to an endless number of compositions of metals used in brass founding and how they were melted in furnaces. Some by 'crucible' in a 'pit fire', then a 'morgan' and later in induction furnaces. The crane foundry had close to 5 tonnes of molten brass 'on tap' 24 hours/day.

Pouring metal was a special skill and controlling the flow rate but keeping the 'dross' (slag) under control was tricky, by adding a scoop of flux a scraper held on the molten surface most slag was removed but great care was still needed to produce slag free castings.

Ron referred to the need for 'coring' jobs (making castings which were hollow) and how cores were made. In the early days how raw linseed oil was the best binder to give the cores strength (oops! sorry Paul - Linseed Oil was good for some things!)

Not only did the foundryman have to work quickly but with a lot of care as well, keeping the moulds free of loose sand, and compressing the sand evenly to produce a 'good lift', metal temperature also critical as well as the mix of copper, zinc and lead. Pattern plates were carefully developed to incorporate the correct size and shape of runners, risers, shrinkage bobs and pouring 'sprue' were all critical to the finished product.

Periodically during the shift Ron would be inspecting the finished castings for porosity, cross jointing, shrinkage, inclusions of foreign matter, excess material (caused by 'bad lift', and surface finish ['burn in' one of the problems]). Any of which would produce a reject, so straight back into the melting pot! and start again.

Forty years ago the foundryman worked under the most appalling conditions. The job was very hot, dirty, noisy, dusty and fummy. The burnt black foundry sand worked its way into the pores of the skin and even after a good scrub up with soap and sawdust it would still be evident the person worked in a foundry.

Anyhow thanks again Ron for enlightening us to the virtues of brass founding and when our TTTG club visits a foundry those members who attended the last meeting will be much better equipped to appreciate what happens.

Maurice Brown  
Programme Organiser

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# SOUTHERN COLLECTOR

Mike Williams

The publicity for Henry Black's Tool Swap obviously reaches far and wide as Henry was contacted shortly before the big event by an Adelaide tool collector who was on his way to sunny Queensland for a holiday. Unfortunately his holiday schedule prevented him attending the tool swap but knowing that I have to spend a large part of my time in Adelaide on business, Henry suggested that he contact me for a tool "yarn" when he returned from holiday.

I was privileged to spend an evening with Frank, enthusiastically poring (and pawing) over his veritable mountain of tools, a large proportion of which are wooden planes of all types. He has been collecting for a number of years and having recently completed a large workshop beside his house, has settled down to sorting and cataloguing the fruits of his fossicking.

Unlike many of us, Frank has in many instances collected large quantities of similar types of planes and this should allow him to form fairly accurate estimates of the distribution of various British manufacturers' products in the Adelaide region. The sheer volume of the collection could add significantly to the statistics in Goodman's book of British planemakers.

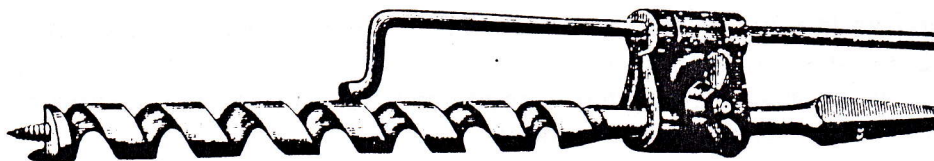
The collection must house at least 50 screw stem and wedge stem plough planes, at least twice that number of hollows and rounds, (together with their accompanying side rebates and snipe bills) the ubiquitous ranges of quirk edge beads, centre beads and a respectable range of complex moulders.

Rather interestingly, Frank has collected a small but important group of craftsman made planes of local timbers from around Adelaide; some of Casuarina are immediately recognisable but many others will require careful identification of the timbers used.

Although not specifically collecting steel planes, Frank has acquired an enviable collection of Stanleys and Record planes, often as oddments in auction lots when he has been bidding for a particular wooden plane. His collection includes an excellent Stanley Number One and the rare and interesting Stanley de-furring plane. All in all, the collection of planes alone must number upward of 500 and is a very significant aggregation.

If any of our members are visiting Adelaide in the near future, contact me and I will give you Frank's telephone number. Like us all, he is interested to meet fellow enthusiasts and chat over old tools. Next year he hopes that he will not miss Henry's Tool Swap!

Mike Williams (02) 44 6356.



No. 162.

Bit Gauges (No. 162) ... ..

Price does not include Bit shewn in the illustration.

This cut shows the gauge in all of its parts. It will be seen that one bolt with thumb-screw tightens the clamps on the spindle and augur bit at the same time. The gauge will fit any size bit, and exactly gauge the depth of hole to be bored.

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## FOREST BODGING COMES TO SYDNEY

Mike Williams

Whilst browsing at the recent Johnson's Antique Fair at Sydney Showground I was held spellbound by Darryl Lobsey's demonstration of pole-lathe turning and associated forest crafts.

Pole lathes are primitive turning lathes operated by a piece of rope wound once around the workpiece and drawn by a foot operated treadle. A springy sapling or "pole" provides the return stroke, the whole setup being kept simple so that the original English "Chair Bodgers" could up and move easily through the Beech forests in search of suitable wood for their country chair manufacture.

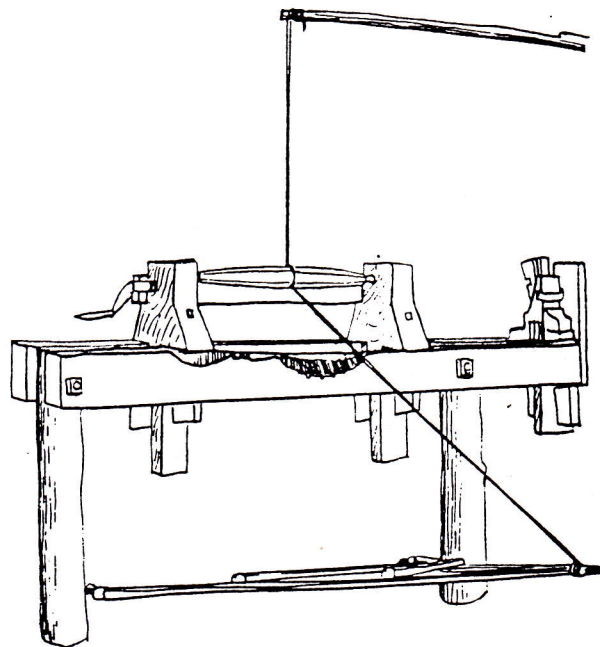
Suitable green blanks are trimmed with a side axe, cut to length with a bow saw, cleft or "riven" with beetle and wedge and then roughly shaped with a draw knife on an ingenious wooden "horse" which clamps the riven billets at just the right angle for working.

The roughly rounded billets are then mounted on the pole-lathe which is an exercise in syncopation, as turning can only be done on the treadle stroke when the workpiece is turning towards you. You also have to watch that you don't cut through the rope wound around one end of the workpiece ! It was said that a skilled

bodger could turn up to 100 chair legs on a machine of this type during a long English summer day.

Darryl Lobsey, who with his wife Caroline run Country Furniture Antiques in Balmain has started the Australian chapter of the Association of Pole-Lathe Turners and next year hopes to organise a pole turning "meet" in the Hunter Valley, a fun picnic for all the family with "log to leg" pole-lathe turning races as the highlight of the day.

If you are interested and would like to learn more about pole-lathe turning and country chair making, contact Darryl Lobsey on (02) 810 8446.

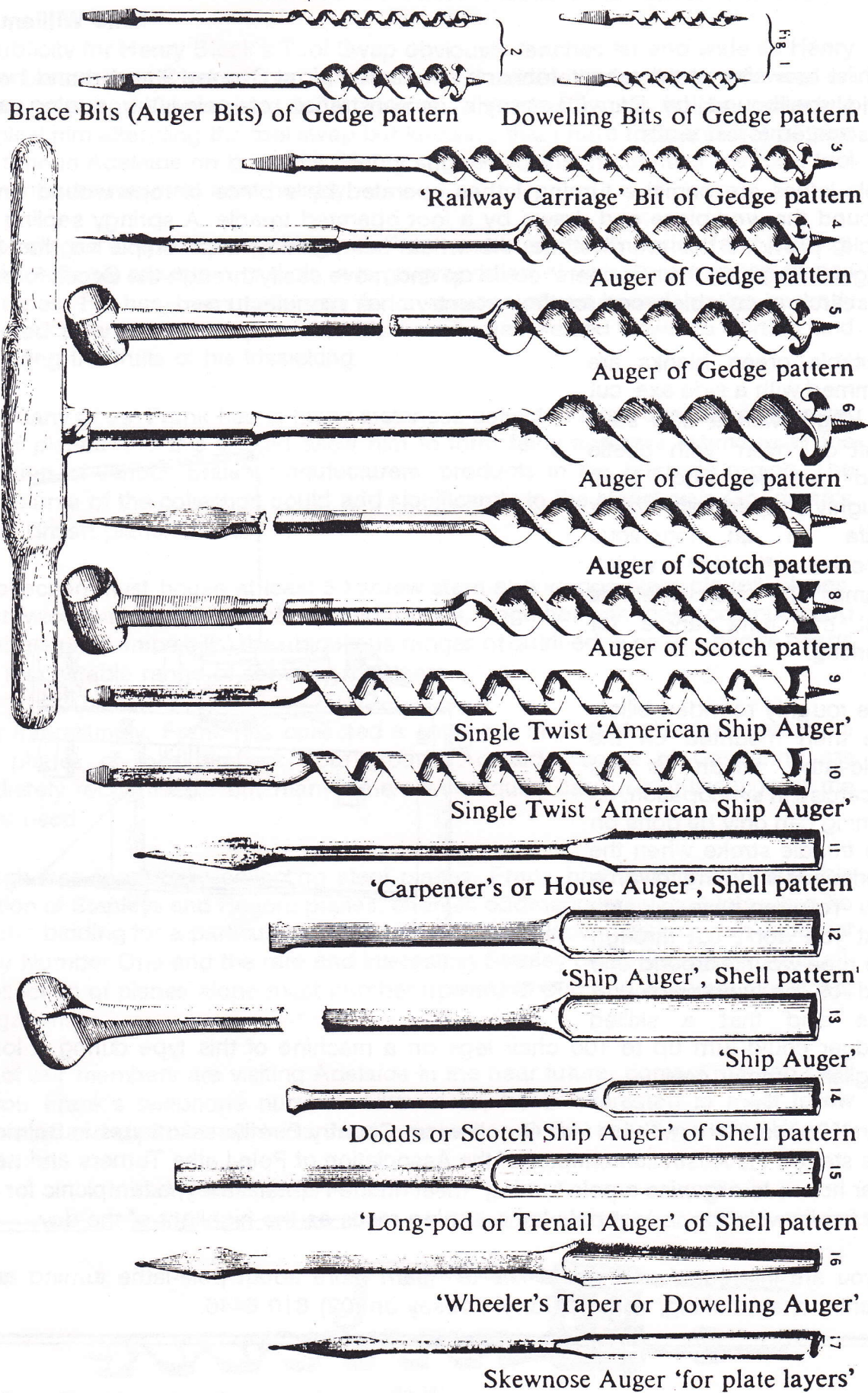


*The Pole Lathe*



*252 Railway or Wagon Screw Bit, 10 inch Barrel (Leadbeater's Pattern)  
If Gedge's Pattern, Nos. 254 and 255*

# AUGERS AND BITS.



Brace Bits (Auger Bits) of Gedge pattern

Dowelling Bits of Gedge pattern

'Railway Carriage' Bit of Gedge pattern

Auger of Gedge pattern

Auger of Gedge pattern

Auger of Gedge pattern

Auger of Scotch pattern

Auger of Scotch pattern

Single Twist 'American Ship Auger'

Single Twist 'American Ship Auger'

'Carpenter's or House Auger', Shell pattern

'Ship Auger', Shell pattern

'Ship Auger'

'Dodds or Scotch Ship Auger' of Shell pattern

'Long-pod or Trenail Auger' of Shell pattern

'Wheeler's Taper or Dowelling Auger'

Skewnose Auger 'for plate layers'

10

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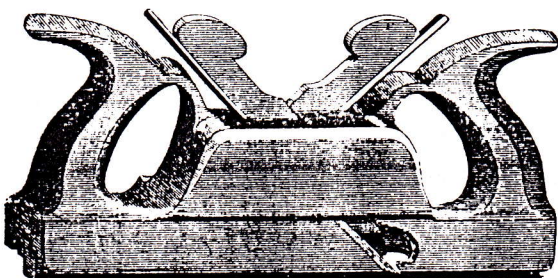
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Duffy ACT 2611 5% discount for TTTG members.

ph 06-2886142 Phone to arrange a visit next time you are in Canberra.

New completely revised edition of Goodman's "British Planemakers from 1700" due for release in England in October, stock should arrive here before Christmas. Reserve your copy now - \$60, no need to send money yet.

Proudfoot & Walker " Woodworking Tools" \$35, normally \$55

Roberts "Wooden Planes in 19th Century America Vol 1 & 2" \$85, normally \$98

Corkhill & Lowsley's "Joinery & Carpentry Volume 1 - 6" c1945 \$75 the set.

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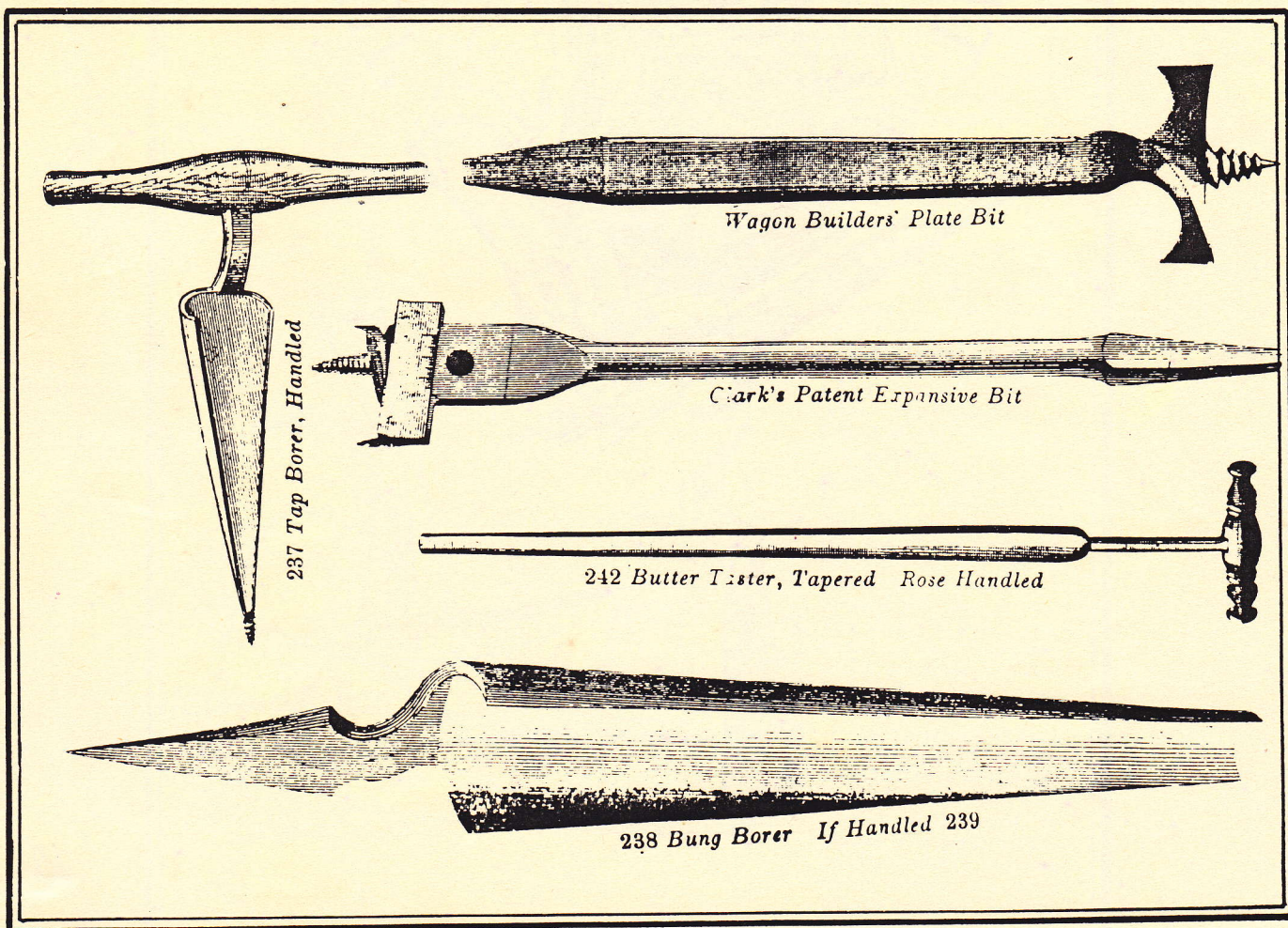
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