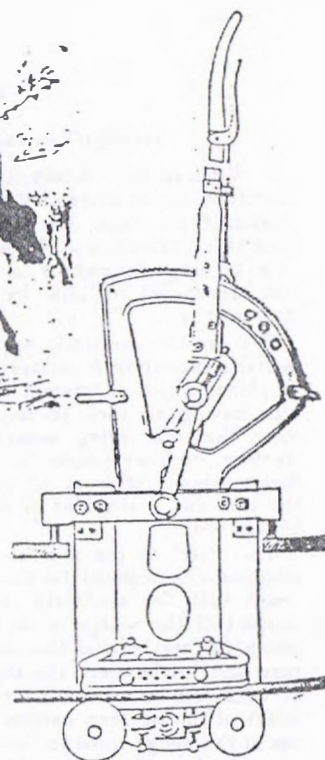
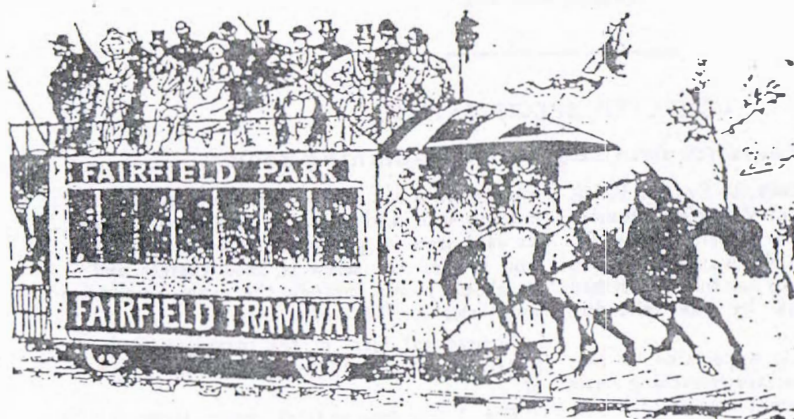


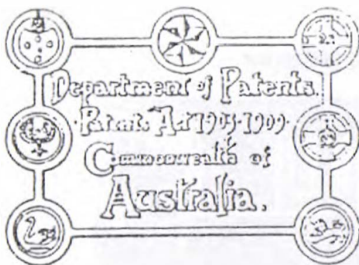
Until the M&MTB unified the livery of the cable trams the cars on each route were painted a colour for the particular line on which they continually ran. Fitzroy cars were yellow.



Cable Gripper

Australian Tools

In HTPA Newsletter (Vol.2 no.5 1990) reference was made to plane with a patent number stamped on it. It was felt to be of redgrum and presumably Australian. Some sleuthing by David Gough brought to light the complete specification, details of which follow.



No. 15,443/20.

APPLICATION DATED

4th May, 1920.

Applicant (Actual Inventor) ...	WILLIAM JOHN JAMES.
Application and Provisional Specification ...	Lodged 4th May, 1920.
Application and Provisional Specification ...	Accepted 4th June, 1920.
Complete Specification ...	Lodged 4th March, 1921.
Complete Specification Accepted 14th June, 1921	Acceptance Advertised (Sec. 50) 23 June, 1921.

Class 80.3.

Drawing attached.

COMPLETE SPECIFICATION.

"Improvements relating to wood-planing tools."

I, WILLIAM JOHN JAMES, of Fewster Road, Hampton, in the State of Victoria, Commonwealth of Australia, Carpenter, hereby declare this invention and the manner in which it is to be performed to be fully described and ascertained in and by the following statement:—

The present invention appertains to carpenter's cutting and surface-smoothing tools or planes which at present consist of a bit-iron having an inclined set in a flat-soled stock the iron being secured against the slanting surfaces known as the bed by a wedge which latter is introduced between the iron and a shoulder or abutment ahead of said bed.

The object of the present invention is to eliminate the necessity for the wedge with the result that the abutment required for the support of the wedge is no longer required which further reduces the costs of manufacture and furthermore the stock when made of wood can be manufactured from a wider range of timber than heretofore because the use of the wedge tends to burst the stock and consequently only selected timber possessing a high degree of strength could be employed.

Briefly stated the objects above mentioned are attained by providing a slotted plate over the recess in the bed of the plane to receive

and retain a nut on a screw provided on the cutting iron and which is tightened up to fix said iron in position. When a backing iron is used the screw is fixed thereto and its shank passes through the usual longitudinal slot in the cutter iron.

A practical form of the invention is depicted in the accompanying drawings whereof

Fig. 1 is a longitudinal section through a plane with a wooden stock and

Fig. 2 a plan of same without the cutter iron.

As illustrated the recess 1 in the bed 2 is partially covered by means of an iron plate 3 formed with a longitudinal stepped slot 4 and let into the upper portion of the bed with its outer surface flush with the bottom portion of the bed.

The cutter iron 5 is formed with a longitudinal slot 6 to receive the shank 7 of a screw screwed through the backing iron 8 and said shank is provided with a nut 9 having one or more straight edges to prevent the screw turning. The cutter iron with its attached backing iron is placed in the usual through slot 10 of the stock with the nut 9 in the recess 1 and at the back of the plate 3 with the shank 7 of the screw engaging

15,443/20.

Planing Tools.

4 May, 1920.

the slot 4 of said plate. The screw is then partially tightened up with the cutter iron in approximately correct position, and when said cutter iron is finally adjusted according to the requirement of the plane, the screw is firmly screwed down.

In order to facilitate the final adjustment of the cutter iron it is provided with a nut 11 in threaded engagement with which is a screw 12 formed by a circumferential groove with a reduced neck 13 which is adapted to be seated in a slot 14 formed in a bent lug 15 screwed to the bottom of the recess 1 at its upper end.

The shoulders at both sides of the neck prevent progressive movement of the adjusting screw 12 the rotation of which moves the nut and consequently the cutter iron in longitudinal direction thus determining the extent to which the edge of the cutter iron will project below the sole of the plane.

The nut 11 may be provided by forming a screw threaded hole in a lug bent from a plate 16 secured by the screw 17 that is usually employed to relatively adjust the cutter iron and backing iron.

It is to be clearly understood that the backing iron is not essential and may be dispensed with in which case the adjusting nut 11 if used is fixed directly to the cutter iron by a screw or one or more rivets.

Having now fully described and ascertained my said invention and the manner

in which it is to be performed, I declare that what I claim is:—

1. In wood stock planes, a metal plate with a longitudinal slot fixed flush with the bed and partially covering the longitudinal recess therein and a screw on the cutter iron the shank of which enters said slot and is provided with a nut in engagement with the back of said plate.

2. In wood stock planes, a metal plate with a longitudinal slot fixed flush with the bed and partially covering the longitudinal recess therein and a screw on the backing iron the shank of which passes through the longitudinal slot in the cutter iron and enters the slot in plate and is provided with a nut in engagement with the back of said plate.

3. In wood stock planes, a metal plate with a longitudinal slot partially covering the longitudinal recess in the bed, a screw on the cutter or the backing iron the shank of which enters said slot and is provided with a nut on its inner end in combination with a nut on the cutter or the backing iron engaged by a screw engaging a slotted lug on the stock of the plane to prevent progression of said screw.

Dated this 4th day of March, 1921.

EDWD. WATERS & SONS,
Patent Attorneys for
WILLIAM JOHN JAMES.

Witness—Arthur Jaques.

4 May, 1920.

AUSTRALIA.

No. 15,443/20.

WILLIAM JOHN JAMES.

Planing Tools.

Fig. 1:

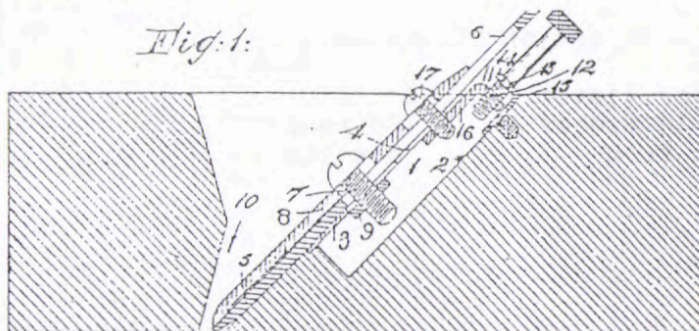
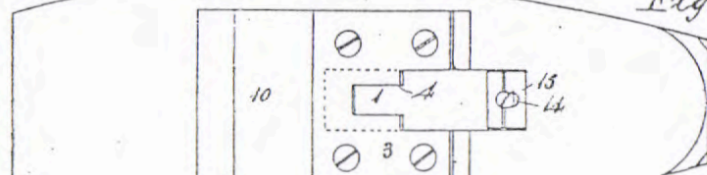


Fig. 2:



JOINER'S TOOLS AVAILABLE IN SYDNEY IN 1820

Commissioner Bigge's enquiry into the colony of NSW collected a vast range of written and oral evidence. Below is a list of joiner's tools and the prices in Sydney in 1820. The original spelling has been retained in the first column. The second column provides modern spelling and any necessary comments.

A Discription of Joiner's Tools and the Price of Them at Sydney. 1820

(Mitchell Library, Bigges Appendix Vol.129 p.3514)

<u>Item</u>	<u>Price</u>	
Handsaws	From 10/- to 14/-	
Tennant Saws	at same price	Tenon Saws
Sash Saws	8/- to 8/6	
Duff Tail Saws	6/6 to 8/6	Dovetail Saws
Cast Steel	10/6 per set	Number & sizes not indicated
Chisels		ditto
Cast Steel Gouges	ditto	
Hand Saw Files	1/3 a piece	
Tryan Planes	9/6	Trying Plane
Jack Planes	7/6	
Smoothing Planes	5/6	
Moulding of different sorts	5/6	
Socket Chisels	2/- a piece	
Augurs	6d. a quarter of different sizes	i.e. 6d per 1/4 inch
Large Files	2/- a piece	
Plain Irons	2/- a piece	Plane irons
Plows with set of irons	£1.10.0	Plough (9) irons?)
Stock with set of bits	£1.10.0	Framed brace (36 bits?)
Sash for listor	£1.15.0	Sash Fillister
Nails in Sydney cost from	1/6 to 2/- per 100	

Tools Requisitioned for the Colony of NSW in 1820

The following extract from the Engineer's Department requisition for 1820, lists the items required for the Carpenter's store. The post column reproduces the original spelling. The second column provides modern spelling and any necessary explanation.

Requisition for Stores

Naval, Military, Civil Departments for the Colony of NSW
Sydney 28th Feb. 1820

True copy. Geo Druitt. Major 48 Chief Engineer.

(PRO Roll 116 Col.201/128)

Carpenter's Store

Hand saws	12 cases	
Tennon	3 "	tenon
Sash	3 "	
Dovetail	1 "	
Table	1 "	
Keyhole, large	2 "	
and small		
Pad saws with screw handles	1 "	
Bow saws with spare blades in dozen	12 doz.	
Cramps 2 - 6ft	24 doz.	
Cross cut saws 6'6", 7 and 8 ft	8 cases	
Pit. do.	8 cases	
Saw sets	12 doz.	
Claw hammers sizes	6 cases	
Shingle hammers sizes	4 "	
Axes	12 cases	
Adzes	6 "	
Augers 1/2" to 2"	50 "	
Double Iron Trying Planes	300 "	
Jack Planes	600 "	
Smoothing Planes	400 "	
Veneer Saw Plane	100 "	Toothing planes
A Quantity of double plane irons 2" to 3"	50 doz.	
Small and large screw (?) planes		(1) illegible, type uncertain
Carpenter's Wood Rasps	6 doz.	
Slide and common rules	24	
Screw Compasses and Plain Compasses	24	
Glue	6 casks	
Sand paper, gloss and	6 boxes	

Carpenter's Store (continued)

Chalk lines	24 doz.	
Black lead pencils	60	
Red lead pencils	12	
Turkey Oil stones	200	
Pincers	100	
Cast Steel Firmers sizes	50 doz.	
Socket Chisels	50 doz.	
Mortice	50 doz.	
Gouges	10 doz.	
Squares, iron blades	10 doz.	
Bevils	4 doz.	Bevels, sliding
Holdfasts	2 doz.	
Hollow and Round planes in sets	6 doz.	
Ovolo planes in sets	6 doz.	probably sash planes
Quirk ovolo and bead in sets	12 doz.	
Match planes in sets	2 doz.	Tongue and groove planes
Quirk ovolo in sets	2 doz.	
Bead planes in sets	2 doz.	
Moving fillisters	2 doz.	
Raising Jack planes	4 doz.	Fielding planes
Spare irons for moulding planes, of sizes	20 doz.	
Hand saw files	3000	
Plough irons in sets (without ploughs)	20 sets	
Screws for wood, of sizes	40 gross	
Chests of Carpenter's tools complete	16	
Mortice lock with brass furniture	300	
Iron rim lock with furniture	300	
Drawer till and drawer furniture	300 sets	
Cupboard locks	200	
Stock locks	400	
Padlocks	600	
Spike nails 4" to 7"	50 cases	
Flooring brads 10 and 12 oz.	50 "	
Rosehead nails 2-20 oz.	50 "	
Tacks of sorts	2 "	
Brads of best quality assorted	40 "	

Carpenter's Store (continued)

Cross cut saw files	2000
Pit saw do.	4000
Brad awls, shouldered	20 gross
Hinges of sorts	12 "
Door bolts of sizes	12 "

Woodworking Tools in NSW in 1824

The following extract from a Commissariat Journal lists the range and price of tools available in NSW in 1824

Journals of Commissariat (2) 21 Aug - 24 Dec. 1824

Archives Office NSW 4/1705

21 Aug 1824

Pit Saw	50/- and 40/-
Cross cut saw	20/- to 50/-
Tennant Saw (Tenon)	7/- to 10/-
Dovetail saw	3/6 to 5/-
Hand saw	3/- to 6/-
Draw knife	1/3, 1/6, 2/-
Spokeshave	9d, 1/3, 2/-
Plane irons	1/-
Files	2/-
Sash saw	5/-
Table saw	2/6
Bench planes	3/-, 9/-
Tooth/compass planes	5/-
Moulding planes	3/-
Smoothing planes	1/6
Trying planes	4/6
Sash Fillister	15/-
Plough	21/-
Stock 34 bits	18/-
Sash Hammer	5/-
Chisels	9d - 1/3
Oilstone	10/-
Gimlets	3d.
Rules	2/- to 2/6
Square	2/6
Pincers	1/6
Screwdrivers	6d.
Adzes	4/-, 5/-, 6/-