

Catalogue of wood screws,
patents,
references and related
materials used
in the production of

“METAL WOOD SCREWS
The Evolution & History”

by G G Jenkinson 1999

Preface

In 1999 my father, Geoff Jenkinson, published a book entitled "*Metal Wood Screws, the Evolution & History*" as a guide to the identification of wood screws through the ages. The book traces the development of early handmade thread forms, from the 7th century BC through the 15th-19th Centuries.

Screws were produced by increasingly sophisticated metal cutting machines so that by the mid 19th Century, screw production was totally dominated by machines.

My father used a large collection of old wood screws, together with over 600 patents for screw making machines to form the backbone of the book. He took hundreds of photographs, many of which were used in his publication. He spent many years researching background information and technical details.

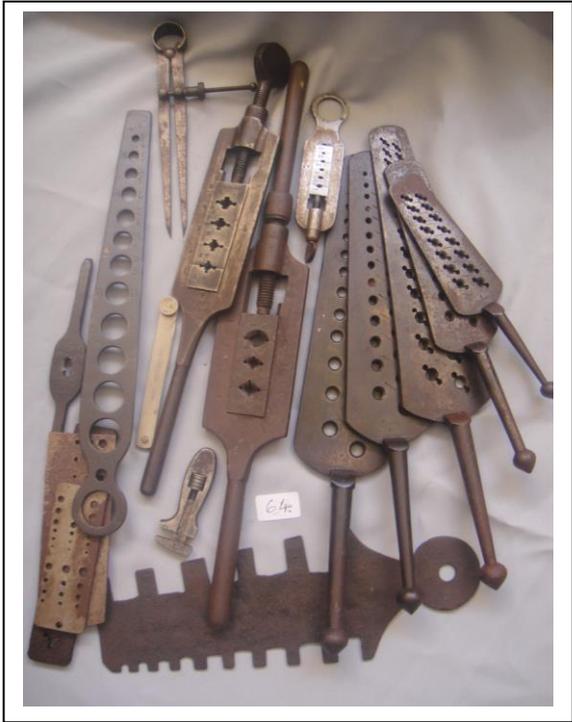
The following catalogue shows all of the source materials he used in assembling his book. These items could form the basis for further research and elaboration of my father's studies. This collection represents a real opportunity for an institution or an individual to obtain the archival basis for the book.

My father earnestly hoped that his collection would find a home where it was both useful and appreciated. It is for that reason that the items are now for sale as one lot. The copyright to his book may also be negotiated.

Peter Jenkinson

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1. Wire and screw gauges - a folder containing the following:
 - a) English wire gauge chart
 - b) Photocopy French 18th Century wire maker
 - c) Article "*Turning*" by Charles Holtzapffel 1846
 - d) References to English wire gauges
 - e) Article "*History of wire making*"
 - f) Article "*Controversy of the gauges*"
 - g) Article "*The wire gauges*" from the Iron Monger 1880
 - h) Article "*The English wire gauge*" by Hughes 1879
 - i) Table "*Cocker's proposed decimal scale for wire*"
 - j) Plan - wire gauges
 - k) Articles "*The Birmingham wire gauge*" 1867
 - l) Article "*Origins of gauges for wire etc*" by Dickinson 1841
 - m) Article "*Wire drawing*" by Johnston 1846
 - n) Gauge tables
 - o) Article "*Trade*" by Houghton 1697
2. Screws references
 - a) Screw gauges
 - b) Screw parts defined
 - c) Article "*Screw machines*" (microfilm)
 - d) Article "*Ancient carpenter's tools*" by Mercer
 - e) Article "*Key to Sheffield manufactories*" by Joseph Smith
 - f) Audells "*Screws*" 1936
 - g) Article "*Origin of Wood Screws*" by Dickinson
 - h) Article "*Turning*" by Holtzapffel, Vol 2
 - i) Article "*Roberts screwing table etc*"
3. Miscellaneous English Screws, horological journal, herons screw cutter
 - a) 2 photos - being the Automatic Turning and Slotting Machine for the heads of wood screws, designed and made about 1860 by Nettlefold & Chamberlain
 - b) Correspondence regarding screws in the UK
 - c) Article "*Screw gauges etc*"
 - d) Booklet "*Henry Maudslay, machine builder*" by A R Gilbert
 - e) Article "*Joseph Whitworth 1803-1887*"
 - f) Extract "*Great Exhibition 1851*"
 - g) Article "*The historical romance of the spiral and screw*" 1929

- h) Article "*The evolution of the screw*" by James Hall
- i) Article "*The adhesion of screws*" by Bevan 1827

4. Reference Lists

- a) Lists of English towns of nail and screw making, 1826

5. No title

- a) Pamphlet "*Nail chronology as an aid to dating old buildings*" by L Nelson
- b) Patent - J Crumb "*Improvement in screw thread machines*" 1848
- c) Patent - T Sloan "*Making wood screws*" 1850
- d) Patent - C Whipple "*Making screws*" 1852
- e) Patent - Pratt "*Improvement in Screw Nails*" 1858
- f) Patent - J Evarts "*Screw cutter*" 1857

6. Miscellaneous American Screw Information

- a) Extract "*The great industries of the United States*" by Freely 1872
- b) Article relating to Daniel Treadwell
- c) Article relating to New England Screw Company

- d) Article "*History of Philipsburg*"
- e) Correspondence regarding Philips and Company 1904
- f) Article "*History of Philipsburg*" 1909
- g) Article "*Wonderland of work*" by C Mateaux 1883
- h) Article "*Wilkinson Lathe*" 1978
- i) Article "*Iron Age*" circa 1890
- jj) Article "*Hagley Museum*"
- k) Article from *The Scientific American* 1881

7. No title

- a) List "*UK imports of wood screws*"
- b) Correspondence re US wood screws
- c) Tables of wood screw weights, table of US imports of wood screws
- d) Article "*Diagram of prices of screws*" 1840-1895
- e) Various correspondence, United States Department of Commerce
- f) Article "*United States tariff schedules*" (6)
- g) Article "*US screw consumption*"
- h) Correspondence related to the above
- i) Statistics on wood screw manufacture and usage
- jj) Article "*Imports into Australia*"
- k) Extract "*US general imports*"

8. American Patents. Screw Forms.
HA Harvey's Patents

- a) Patent - Whiting and Wilson
"Wood screw" 1858
- b) Patent - Kendall and Hunt
"Making wood screws" 1858
- c) Patent - Freeman "Wood
screws" 1860
- d) Patent - Miller "Wood screw"
1859
- e) Patent - Bidwell "Wood screw"
1864
- f) Patent - Davies "Wood screw"
1867
- g) Patent - Lipseys "Screw head"
1861
- h) Patent - Mathews "Wood
screws" 1872
- i) Patent - Stockton "Wood screws"
1873
- j) Patent - Phillips "Screw cutting
machine" 1873
- k) Patent - Ladd "Wood screws"
1873
- l) Patent - Barrett "Wood screws"
1873
- m) Patent - Thurston "Double point
screws" 1873
- n) Patent - Russell "Wood screws"
1873
- o) Patent - Harvey "Rolling thread
machine" 1880

- p) Patent - Harvey "Rolling thread
machine" 1887
- q) Patent - Harvey "Screw swaging
machine" 1888
- r) Patent - Whitaker "Screw cutting
die" 1858

9. American Patents – General

- a) Index to patents 1790-1873
United States patent office
- b) Article "Early US Patents"
- c) List of inventions and inventors
related to screws 1836-1873
- d) Various screw references
- e) Patent –

10. American & English Catalogues

- a) Chart of screw dimensions by
Nettlefold
- b) Copy catalogue and price list
American Screw Company 1883
- c) Price list & drawings (screws)
Nettlefold & Chamberlain,
Birmingham 1871
- d) Smith's key 1816 (extract)
- e) Article relating to Smith's key
together with various
photocopies of screw forms
- f) Winterthur Museum trade
catalogue
- g) A similar item
- h) Metalwork pattern books of
sundry products

11. Andre Felibien

- a) Article "*A century of inventions*" by James White 1909
- b) Article "*Modern mechanism*" edited by P Benjamin
- c) Extract "*Applied mechanics*" edited by P Benjamin
- d) Extract "*The crossbow*" by Payne Gallwey
- e) Extract "*Greek & Roman technology*" by K D White
- f) Extract "*Encyclopedia of technology*" by Prechtel 1843
- g) Photocopy of "*Principles of Architecture etc*" by Felibien 1699

12. Moxon's Mechanical Exercises etc

- a) Photocopy of "*Moxon's Mechanical Exercises etc*"
- b) List of 19th Century English pattern books
- c) Extract "*Catalogue of old English pattern books*"
- d) Catalogue "*Furniture and upholstery fittings*"
- e) Photocopy list "*V&A Collection of metalwork and pattern books*"
- f) Extract "*Catalogue of English Hardware*" by Fisher
- g) Article "*Screw thread cutting*" by Battison

13. No title

- a) Photocopy "*Abridged patents British Isles (Woodcraft)*"

14. Italian & German References

- a) Article "*Trattati (thread making)*" circa 1476
- b) Article "*The technology of the fastener*" Feldhaus

15. French Notes

- a) Article "*Modern Fasteners*"
- b) Article "*Diderot*" selected photocopies
- c) French references & correspondence related to them
- d) Extract "*De re Metallica*" 1556
- e) Extract "*Annales des Arts*" 1806
- f) Extract "*Studies of the experiments & technologies and industries*" by Fremont 1928
- g) Extract "*Dictionary of Arts*" 1837
- h) Extract "*Woodworking machines*" circa 1880
- i) Extract "*Machine and sculpture*" by Valet
- j) Various other extracts relating to screw fabrication

16. Tomlinson et al

- a) Extract "*American mechanical dictionary*" by Knight

- b) Various technical dictionary extracts and related information

17. American References

- a) PO Gazette 1880
- b) Copy "*Memoir of Hayward Augustus Harvey*" 1900

18. General Reference re Dating by Metal Parts

- a) Extract "*Study of building hardware*" by Priess
- b) Various other articles on history and archaeology as applied to buildings
- c) References for nails and screws, locks, handles etc as used in various building periods
- d) Tremont Nail Company information

19. English Patents 1839 Onwards

- a) Patent - "*Machinery for making screws*" Newton 1839 – together with a series of line drawings
- b) Patent – Ryland "*Manufacture of screws*" 1939
- c) Patent – Warren "*Machine for making screws*" 1841- together with associated line drawings

- d) Line Drawings "Onion's specifications for screws"
- e) Further notes to Newton's patent
- f) Various screw machine diagrams, copies of lithographs etc
- g) Patent – Newton "*Manufacture of wood screws*" 1852 – together with copies of lithographs related to that patent
- h) Patent – Warren & Walker "*Screws, screw keys etc*" 1852 – together with copy of lithograph related
- i) Patent – Pilbeam "*Bradawl screw*" 1858
- j) Patent – Tomlinson "*Machinery for cutting the thread of wood screws*" 1858
- k) Patent – Clegg "*Screws*" 1858

20. No title

- a) Extract – "*Woodworking tools*" by Peter Welsh 1966
- b) Extract – "*Making wood screws*" by Knowles 1833 – together with copies of line drawings and documents from the US Patents office
- c) Patent – Read "*Wood screw machine*" 1834

- d) Patent – Pierson *“Nicking bolt and screw heads”* 1836
 - e) Patent – *“Machine for screw making”* 1836
 - f) Patent – Crum *“Making wood screws”* 1836
 - g) Patent – Harvey *“Making wood screws”* 1837
 - h) Patent – Sloat & Springsteen *“Screw threading machine”* 1837
 - i) Patent – Read *“Machine for making wood screws”* 1837
 - j) Patent – Keane *“Making wood screws”* 1838
 - k) Patent – Wills *“Making wood screws”* 1839
 - l) Patent – Crum *“Making wood screws”* 1839
 - m) Patent – Hamilton *“Making wood screws”* 1841
 - n) Patent – Whipple *“Machine for making wood screws”* 1842
 - o) Patent – Whipple *“Machine for shaving the heads of screw blanks”* 1843 – together with various line drawings
 - p) Patent – Whipple *“Machine for removing burrs from underside of wood screw head”* 1843
 - q) Patent – Brooks & Clarke *“Making wood screws”* 1845 – together with line drawings associated
 - r) Patent – Whipple *“Machine for making wood screws”* 1845
 - s) Patent – Harvey *“Making wood screws”* 1846 – together with line drawings associated
 - t) Patent – Sloan *“Making wood screws”* 1846 – together with associated drawings
- 21. French Patents**
- a) Patent – Japy *“Screw press for heads”* 1806 – together with various line drawings
 - b) Patent – Phillix *“Preparation of nails”* 1812
 - c) Patent – Gonnant & Reinypach *“Process for slotting the head of a screw”* 1814 – together with associated drawings
 - d) Patent – Migeon *“Screw manufacture”* 1791
 - e) Patent – Migeon *Screw manufacture”* 1827
 - f) Patent – Monfeighnur *“Machine for screw making”* 1827
 - g) Patent – Japy *“Screw thread making”* 1845
 - h) Patent – Beaucourt *“Screw making”* 1849

- i) Patent – Japy “Screw making” 1847
- j) A number of line drawings that relate to the previous patents
- k) Patents – Dumery “Shaping screw thread” 1842 together with associated line drawings

22. Screw Girdler

- a) Various correspondence with the Iron Bridge Gorge museum
- b) Patent – Hancocks “Machine for cutting wood screws” 1811
- c) Extract – “Historical record of NSW: Volume 3” by Hunter 1796
- d) Extract – “Addlington Hall” by Mander
- e) Various correspondence relating to wood screws and other inventions
- f) Extract – “The nail makers” by Moseley
- g) Reference Wyatt Collection, Birmingham
- h) Extract “The cabinet maker’s cyclopedia of useful arts” by Lardner 1831
- i) Extract “Engineer’s encyclopaedia” by Herbert 1836
- j) Extract “The development of industry in Burton-upon-Trent”

- k) Extract “Tomlinson encyclopaedia” 1854
- l) Extract “Birmingham industrial history etc” Timmins 1866

23. English Patents 1760-1838

- a) Patent – “Converting forged iron into steel” Prince Rupert 1670
- b) Line drawings “Screws” Aughtie 1796 together with line drawings associated
- c) Patent – Mauwin “Machinery for casting screws” 1800 together with associated line drawings
- d) Patent – Colbert “Manufacture of screws” 1817 together with associated line drawings
- e) Patent – Woolley “Manufacture of screws” 1818
- f) Patent – Wright “Machinery for the manufacture of metal screws” 1827
- g) Patent – Tyndall “Nails, brads and screws” 1827 together with associated line drawings
- h) Patent – Wright “Manufacture of screws” 1828
- i) Patent – Whitworth “Apparatus for cutting screws” 1834
- j) Patent – Berry “The manufacture of screws” 1836

together with associated line drawings

k) Patent – Berry *“Manufacture of screws”* 1837 together with associated line drawings

l) Patent – Woodyatt & Harrison *“Machine for making wood screws”* 1838 together with associated line drawings

24. French Notes

a) Extract – *“Grandes Usins”* by Japy

b) Extract – *“Society for the study of history of Flanders etc”* 1933

25. French Patents

a) Extract – *“Catalogue of patents 1791 – 1825”*

b) Patent – Tourasse *“Making screws”* 1817

26. History of Technology

a) Various extracts on Technical History from earliest times

b) Extract – *“Journal of Hellenic Studies”* 1936

c) Extract – *“History of mechanical engineering”* by Burstall 1963

d) Extract – *“The theatre of machines”* by Keller

e) Extract – *“History of technology”* by Singer 1956

27. Drafts

a) Five draft versions of the book *“Evolution and History of the Wood Screw”*

28. Book *“List of Canadian Patents from 1824 – 1872”* 1882

29. Leaflets describing modern fixings

30. Patent – Whitworth *“Machinery for turning, boring, planing and cutting metals”* 1835

31. Draft copy of the book *“Evolution and History of the Wood Screw”*

32. A series of notes and articles relating to Babylon and ancient inventions

33. Patent – Sloan *“A machine for making screws”* 1856

34. Extract – *“The Engineer – Engineering History”* 1918

35. Working diagrams for construction of *“Family Tree” Screw History and Chronology*

36. A series of photographs used in the preparation of the book *"Evolution and History of the Wood Screw"* including archival details and historical notes
37. Archival details and historical notes, including a series of letters, diagrams and extracts related to the above
38. Article written by GG Jenkinson regarding left and right hand threads
39. Article written by GG Jenkinson *"Screws the long-term development"* and an extract – *"The history of plumbing in Babylonia"*
40. A large collection of floppy discs including the master disc used in the production of the book
41. A booklet containing industrial technology history, including an article by Fremont
42. Copy – *"The history of the screw"* by Kellerman (3 volumes)
43. A box containing photographs used in the production of the book *"Evolution and History of the Wood Screw"* (approx 250 photos)
44. A cylinder containing:
- a) A diagram of screw making machine
 - b) A diagram of types of screws
 - c) A reference to industrial art
 - d) A photocopy of screw prices in the 18th Century and copies of various handwritten correspondence from that period
 - e) Copy of a petition regarding inventions for turning bone buttons and related matters 1761
 - f) Copies of the Holtzapffel catalogue
45. Loose copies of "Family tree screw chronology"
46. Cylinder containing:
- a) Series of chronologies

47. A collection of 18th Century wood screws and some later examples, a coach bolt and a wooden handled gimlet
48. A collection of 18th Century wood screws and some later examples, a coach bolt and a wooden handled gimlet
49. Screws to 1817 plus screw girdler examples
50. Screws post 1827 with no turning
51. Screws post 1828 with a turned face only
52. Un-catalogued screws etc
53. Approximately 200 18th & 19th Century blunt pointed wood screws
54. A collection of screws used in the production of the book *"Evolution and History of the Wood Screw"*
55. A collection of screws used in the production of the book *"Evolution and History of the Wood Screw"*
56. A collection of screws used in the production of the book *"Evolution and History of the Wood Screw"*
57. A collection of screws used in the production of the book *"Evolution and History of the Wood Screw"*
58. A collection of screws used in the production of the book *"Evolution and History of the Wood Screw"*
59. An early blacksmith made strapper's hook with a thread similar to 16th Century French (Freemont)
60. A No 3 Starrett & Co micrometer enclosed in an embossed London made leather case
61. Part of an early handcuff showing the use of a screw thread, an early turned blunt point wood screw, a wire gauge vernier caliper, a set of

- three handmade steel items to measure the pitch of thread, a set of precision screw drivers, and a Starrett fold out thread gauge
62. A Sheffield steel ruler, a set of inside dividers, a Chesterman vernier caliper, a German vernier caliper, a set of Moore & Wright English dividers, a Henry Boker screw plate and a small cross pane hammer (marked Brades)
63. An 18th Century bronze mounted stuffing tool
64. A collection of metal tools
- a) A frame mounted series of dies
 - b) A frame mounted set of four dies for brass work by Mathieson, Glasgow
 - c) A large cast iron screw plate by P Stubbs, England
 - d) A large cast iron screw plate by P Stubbs, England
 - e) A large cast iron screw plate by P Stubbs, England
 - f) A medium sized cast iron screw plate by Mathieson, Glasgow
 - g) A small cast iron screw plate by P Stubbs, England
 - h) A primitive iron screw plate with six dies
 - i) A primitive quarter inch Whitworth mounted die
 - j) A Wood & Co wire gauge and ruler, steel
 - k) A screw plate with Whitworth and BA Threads
 - l) A pair of Moore & Wright, Sheffield, dividers
 - m) A set of feeler gauges by Moore & Wright
 - n) A miniature King Dick spanner
 - o) An iron gauge plate from ¼" – 1" by 1/16" increments
 - p) A handmade iron gauge plate measuring 1" – ¼"