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Introduction

This document provides a status on the 24 items of intellectual property used in the thesis. In nearly all cases permission to use copyright material has been obtained, and should be acknowledged. However, text associated with acknowledgment in the body of the thesis would change the page numbering, and hence the referencing would be disrupted. In order to avoid this problem and retain the thesis in the format approved, the status on permissions to use copyright material are summarised here. The document layout has been structured to show the images for which copyright approval was sought. In some cases permission was granted subject to a particular form of words being used in the acknowledgment.

Figures. 3.01, 3.02 and 3.03. *Making Silent Stones Speak*, by Schick K D and Toth N, 1st ed. 1993, this ed. 1995, Phoenix, London. Phoenix is a division of Orion Books Ltd. The following three images were scanned from page 119 of *Making Silent Stones Speak*.

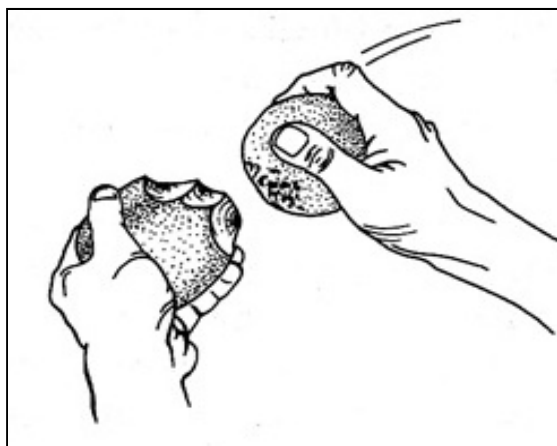


Fig. 3.01 - Hard-hammer percussion

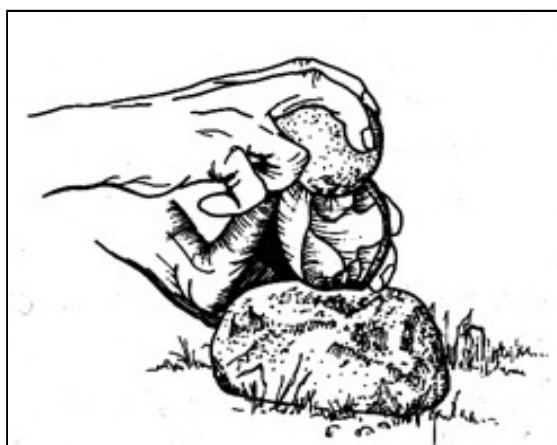


Fig. 3.02 - Bipolar technique

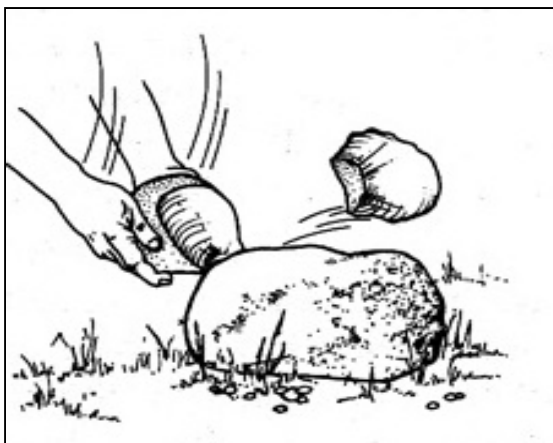


Fig. 3.03 - The anvil technique

Approval status: Approval is still being sought from Schick and Toth. Their agents, Brockman Inc, NY, were first contacted on 27.02.2002. Brockman Inc replied 08.03.2002 to say that this request had been passed to the authors with a request for them to reply directly to ULTRALAB. Brockman Inc were contacted again on 16.04.2002 advised that no reply had been received. Brockman Inc were faxed 01.10.2002 and advised that in the absence of a response from Schick and Toth, the images will be published together with a status showing the attempts to obtain copyright approval.

Figure. 3.04. *Pre-History to Roman Britain*, by Mitchell R and Middleton G, 1st ed 1979, this ed 1981, Longman, London. Longman now part of Pearsons Education Limited. The following image copied from page 6.



Fig. 3.04 - Pointed stone hand-axe

Approval status: Permission kindly granted by Mr Peter Clayton on 19th April 2002.

Figures. 4.02 and 4.01. *A history of mechanical inventions*, Usher A P, 1954, Harvard University Press.

The images in Fig. 4.01 and Fig. 4.02 were drafted after Usher's figures on pages 66 and 69.

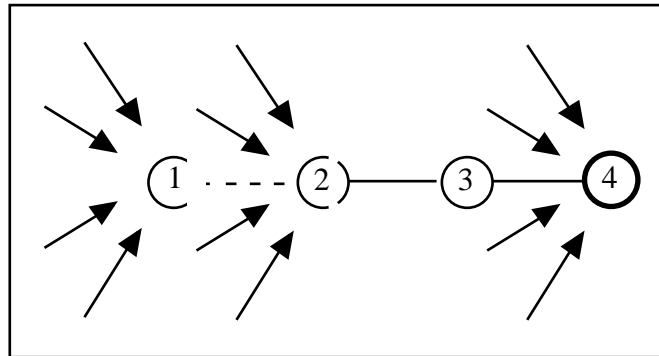


Fig. 4.01 - The emergence of novelty in the act of insight

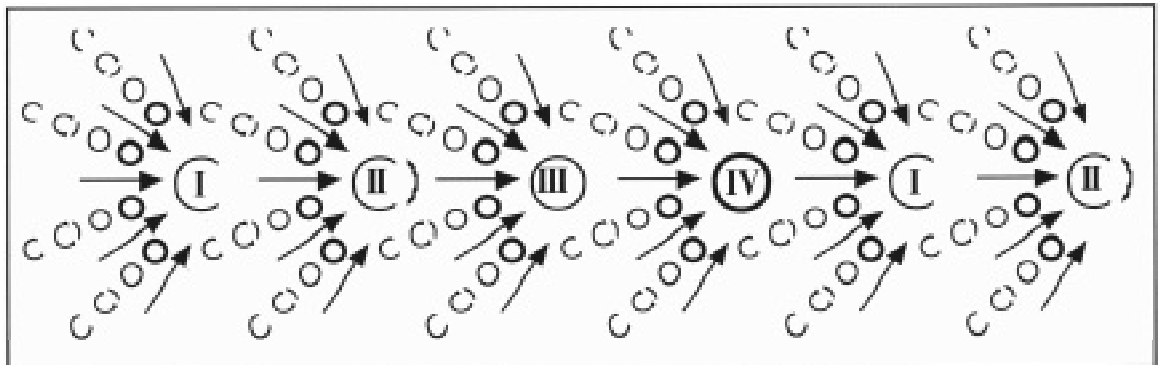


Fig. 4.02 - The process of cumulative synthesis

Approval status: Permission kindly granted by Professor Miriam Usher Chrisman on 1st February 2002.

Figure 4.05. History of the Lathe to 1850. A Study in the Growth of a Technical Element of an Industrial Economy, Woodbury, R S, 1972, The MIT Press. The image in Fig. 4.05 was taken from page 32, and annotated for inclusion in the thesis.

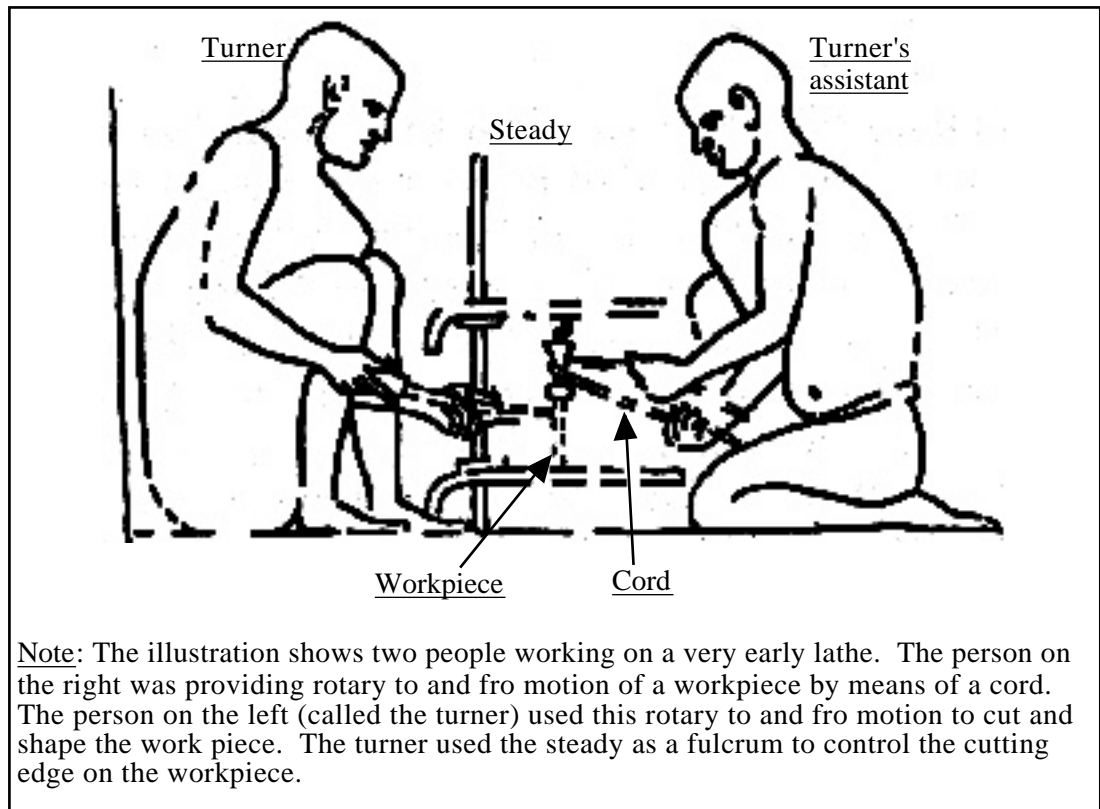


Fig. 4.05 - Early representation of a lathe

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Figures 4.06 and 4.07. *Tools for the Job: A short history of machine tools*, by Rolt L T C, 1965, B. T. Batsford Ltd, London. The following images were taken from Rolt (1965:21) and Rolt (1965:24).

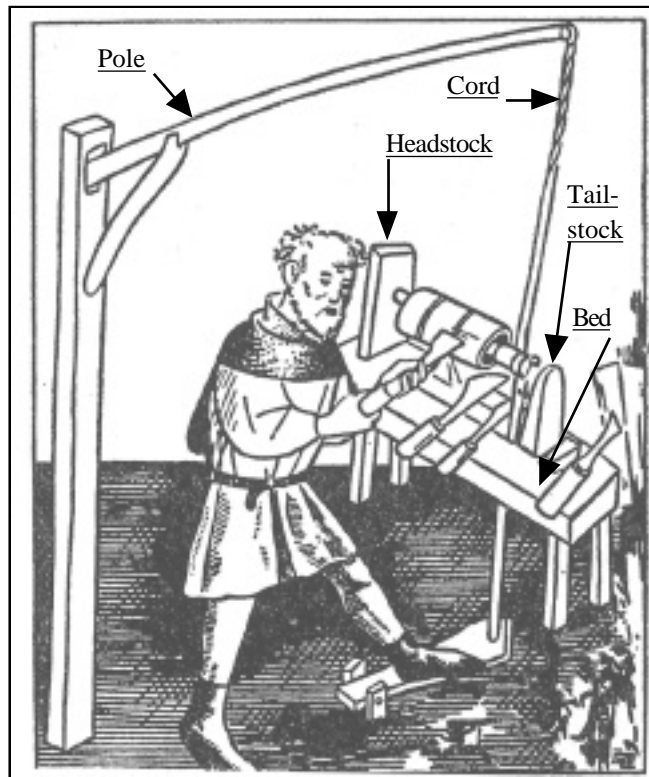


Fig. 4.06 - A German pole lathe of 1395

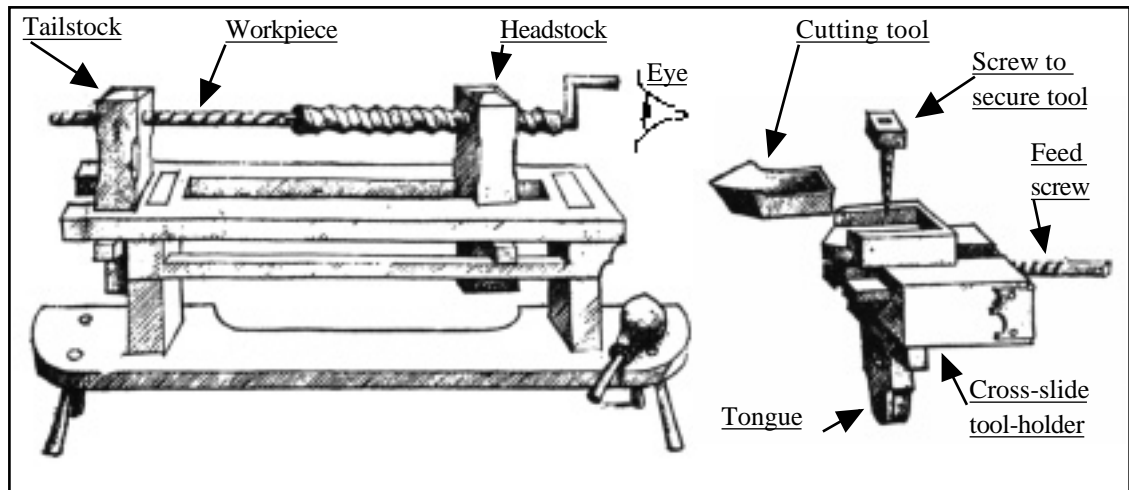


Fig. 4.07 - Clockmaker's lathe with cross-slide toolholder

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Figures 4.08 and 4.09. *Studies in the History of Machine Tools*, by Woodbury R S, 1972d, MIT Press. The following images was taken from pages 65 and 79, and annotated for the thesis.

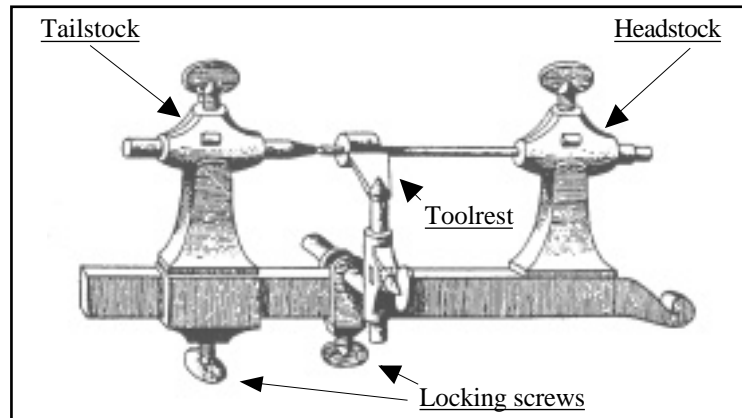


Fig. 4.08 - Clockmaker's 'turn', 1741

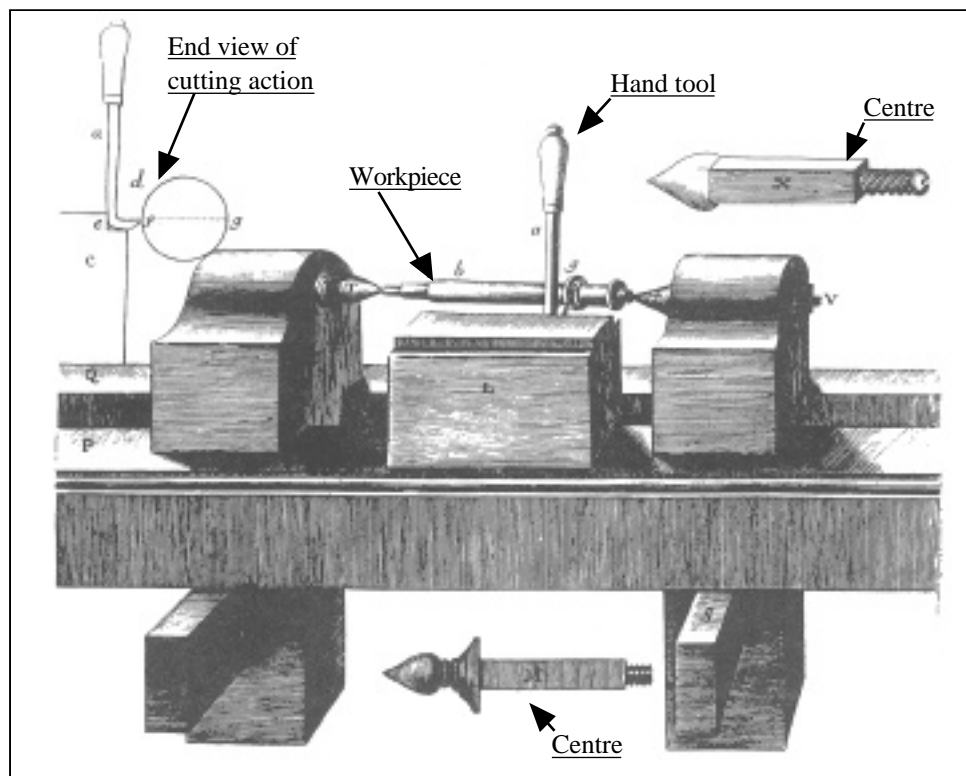


Fig. 4.09 - Plumier's iron-cutting Lathe, 1701

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Figures 4.10 and 4.11. *Tools for the Job: A short history of machine tools*, by Rolt L T C, 1965, B. T. Batsford Ltd, London. The following images were taken from Rolt (1965:64), and Rolt (1965:116).

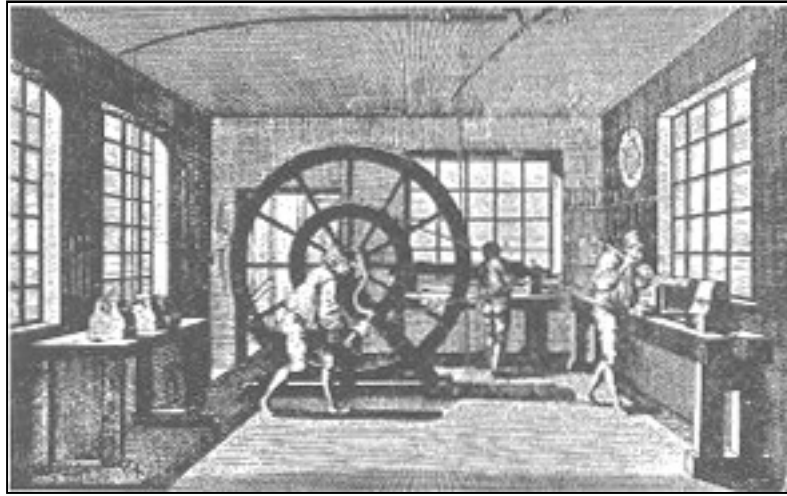
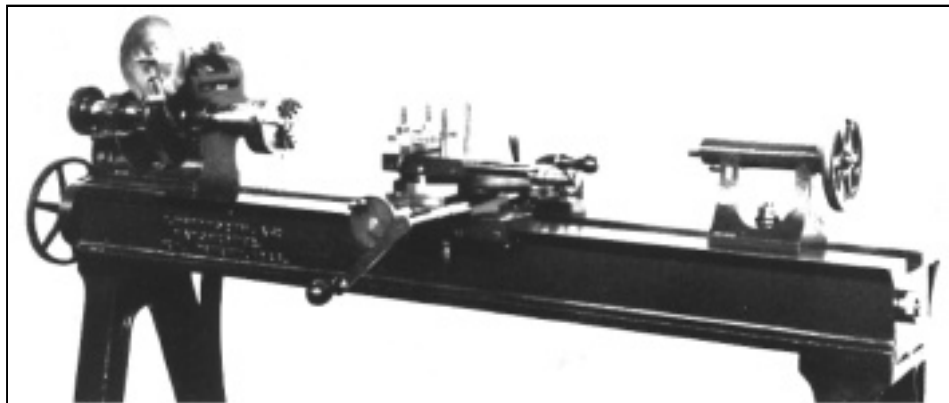


Fig. 4.10 - A turner's workshop of 1771 (Diderot)



*Fig. 4.11 Whitworth's lathe with automatic cross-feed, 1843
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Figure 5.02. *Stott Park Bobbin Mill, Colton, Cumbria, 1835–1971*, in *Ancient Monuments and their Interpretation*, by White, P R, 1977 pp335-48, Phillimore and Company Limited, Chichester, West Sussex. The image in Fig. 5.02 was taken from White (1977:339).

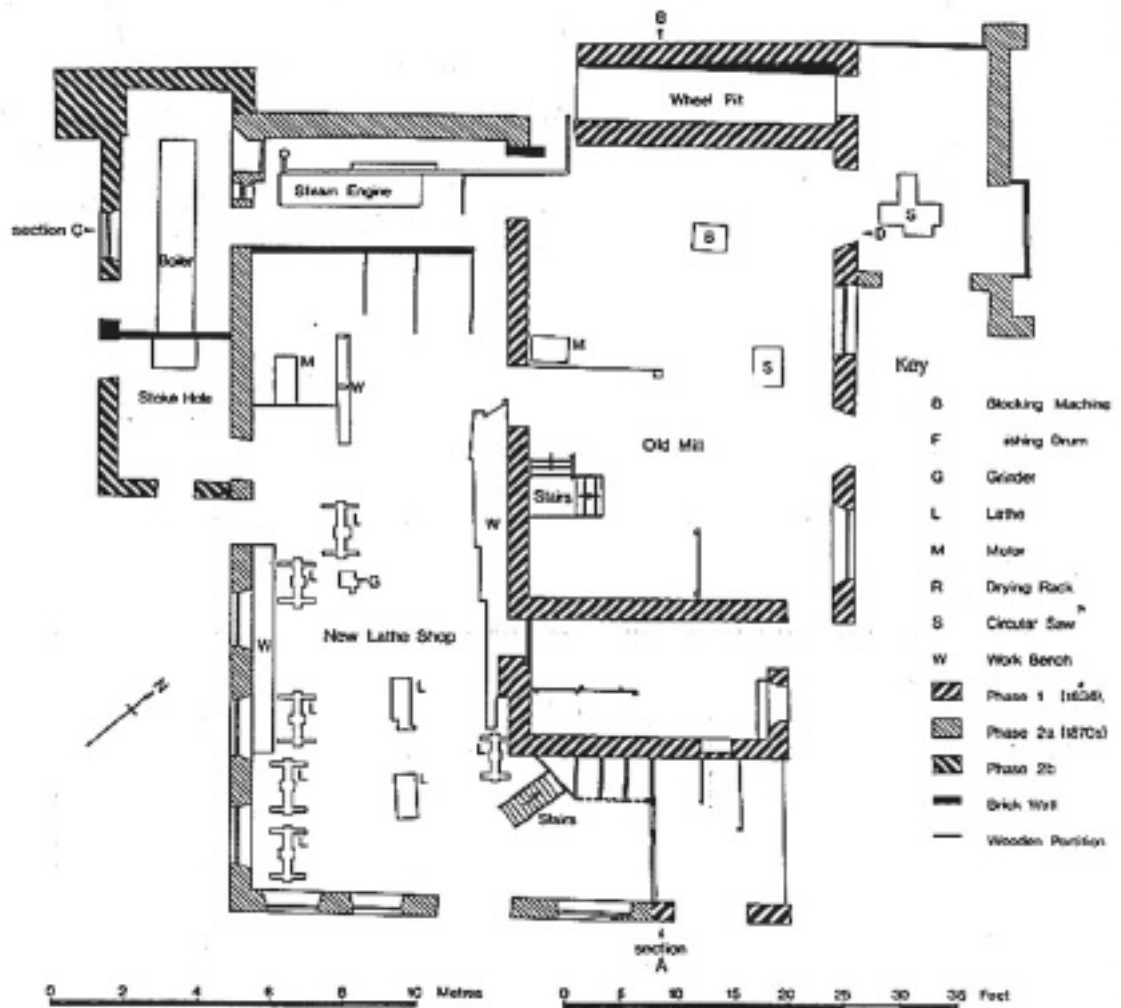


Fig. 5.02 - Plan of Stott Park bobbin mill. From White (1977:339)

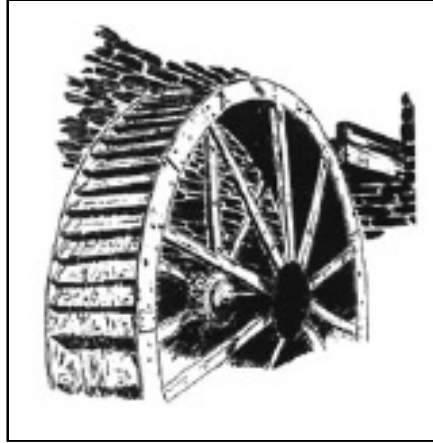
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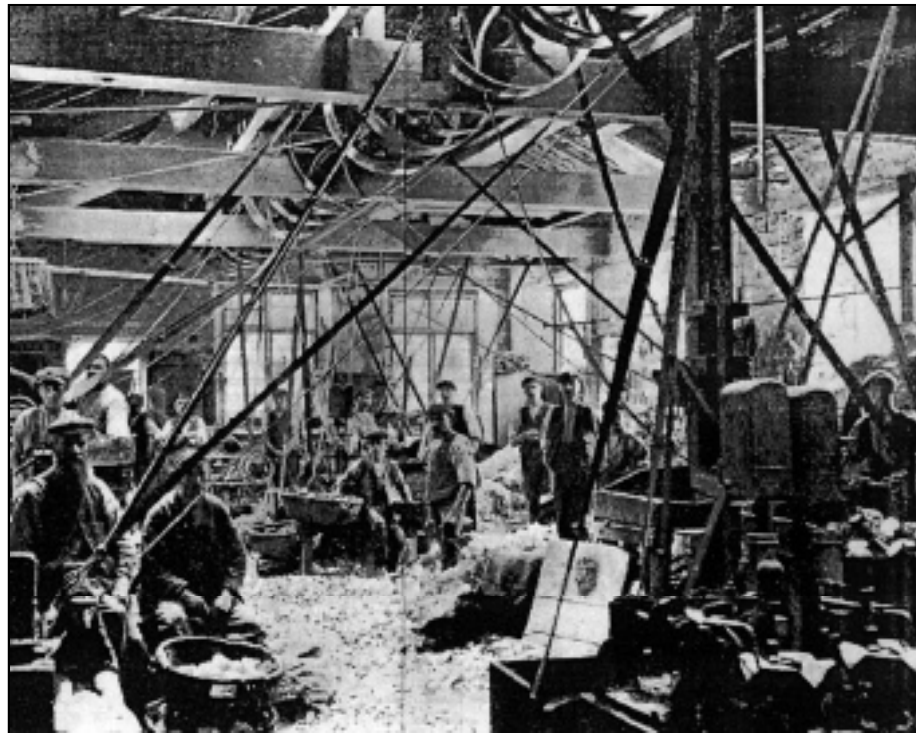
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Figures 5.03, 5.04 and 5.05. *Stott Park Bobbin Mill*, Ayris I and White P, 1995, 1st ed. Dept of Environment 1983, this edition English Heritage 1995, Crown copyright 1983.

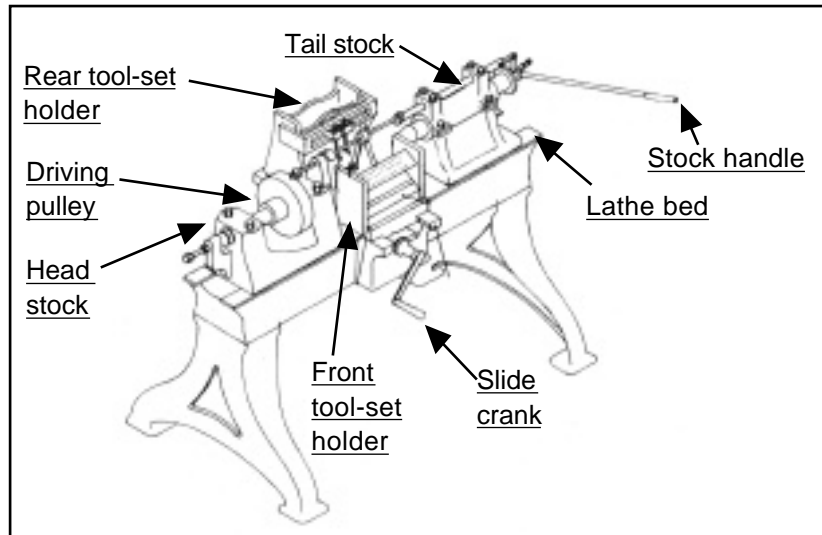
The following images Fig. 5.03, Fig. 5.04 and Fig. 5.05 were taken from Ayris and White (1995) pages 8, 11/12 and 15.



*Fig. 5.03 - The waterwheel at Stott Park Bobbin Mill
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*Fig. 5.04 - Main lathe shop in the 1890s
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*Fig. 5.05 - Isometric view of a finishing lathe in the late 1960s
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Figure 5.07. *Elementary Electrical Engineering*, by Clayton A E and Shelley H J, 1st ed 1927, this ed 3rd 1951, Longmans Green and Co Ltd, London, now Pearsons Education Limited, Harlow.

The following image Fig. 5.07 was taken from Clayton and Shelley (1951) page 45.

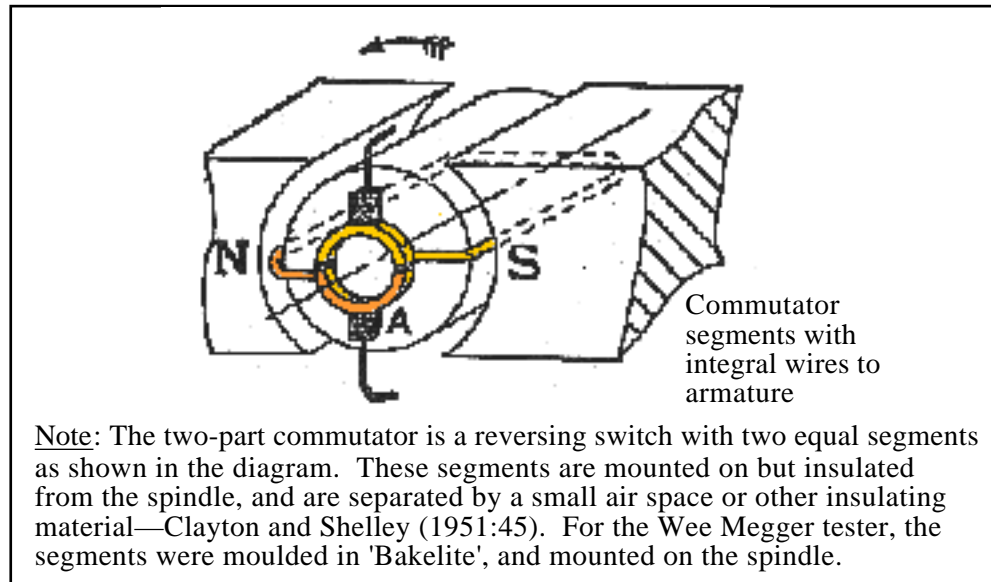


Fig. 5.07 - Diagrammatic arrangement of a commutator

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Figures 6.01 and 6.02. *The Ascent of Man*, by Bronowski, J, 1979 1st ed 1973, this ed 1979, The British Broadcasting Corporation, London.

The image in Fig. 6.01 below, comes from Bronowski (1979) page 97, but the original was attributed to H. Ubbelohde Doering. Attempts to contact the rightsholder have so far not been successful. The author will be pleased to receive any information that would enable contact to be made with the rightsholder.

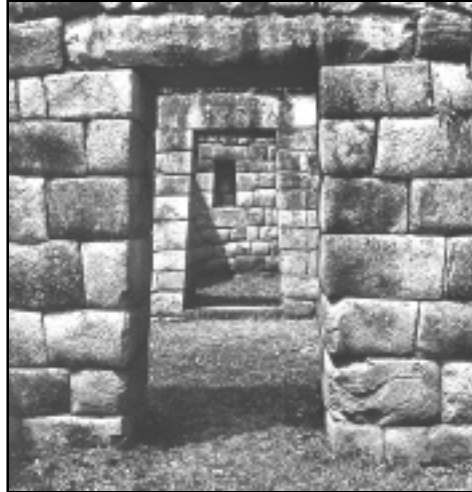


Fig. 6.01 - The masonry skills of the South American Inca—Bronowski (1979:97)

The image in Fig. 6.02 below, has been taken from Bronowski (1979) pages 98/99. This photograph is attributed to George Gerster, John Hillelson agency. Attempts to contact the rightsholder have so far not been successful. The author will be pleased to receive any information that would enable contact to be made with the rightsholder.



Fig. 6.02 - The City of Machu Picchu - see Bronowski (1979: 98-99)

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Figure 6.04. *New Perspectives on Nonverbal Communication*, by Poyatos F, 1983, Pergamon Press, Oxford. The image in Fig. 6.04 was drafted after Poyatos (1983) page 29.

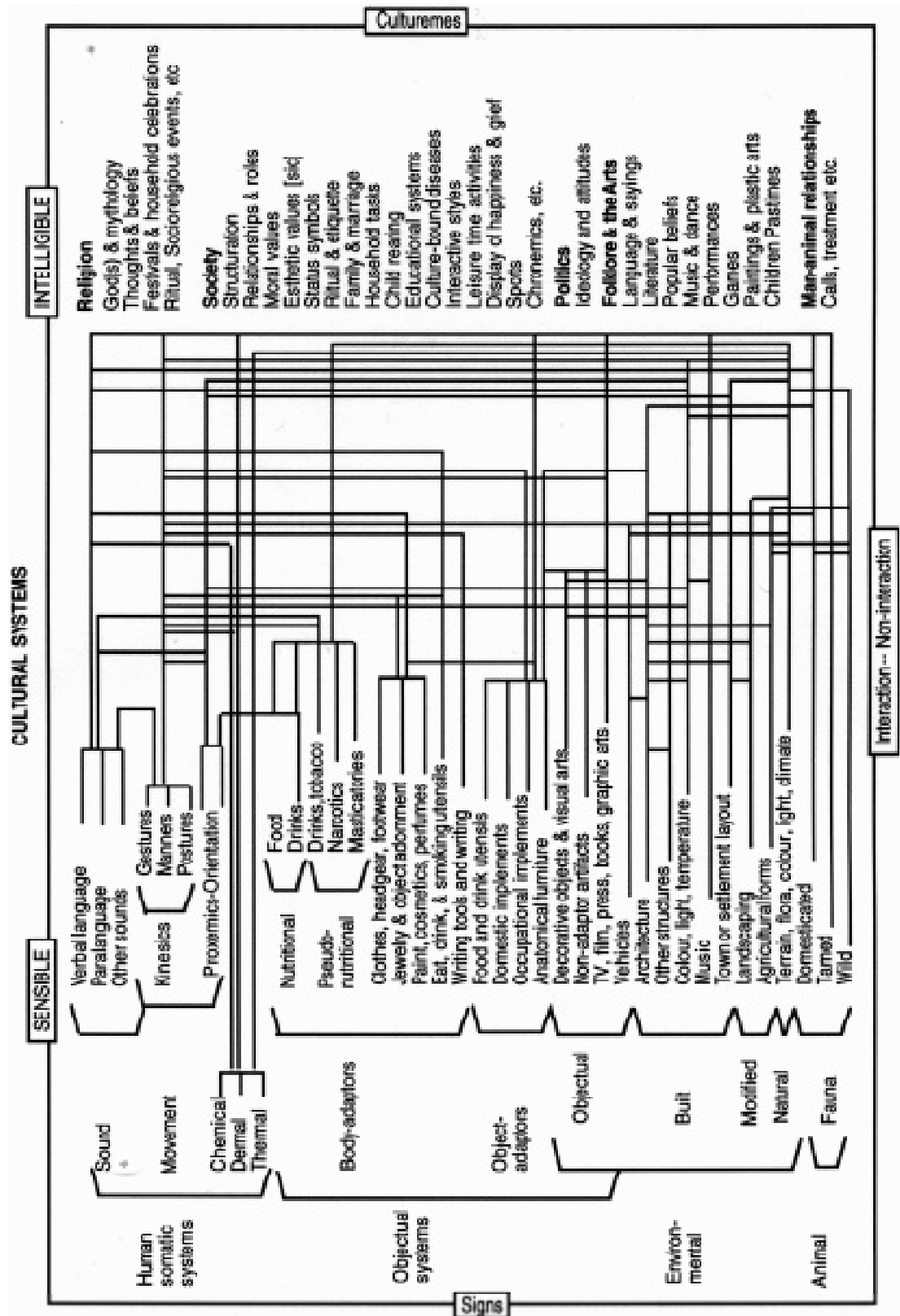


Fig. 6.04 - Sensible and Intelligible Systems in Culture - Poyatos (1983:29)

Approval status: Permission kindly granted by Fernando Poyatos 30th January 2002.

Figure 7.02. *The Changing Countryside*, by Blunden J and Curry N, 1985, Croom Helm Ltd, Beckenham, Kent. The image in Fig. 7.02 on page 135 of the thesis was plotted from Blunden and Curry (1985) page 39.

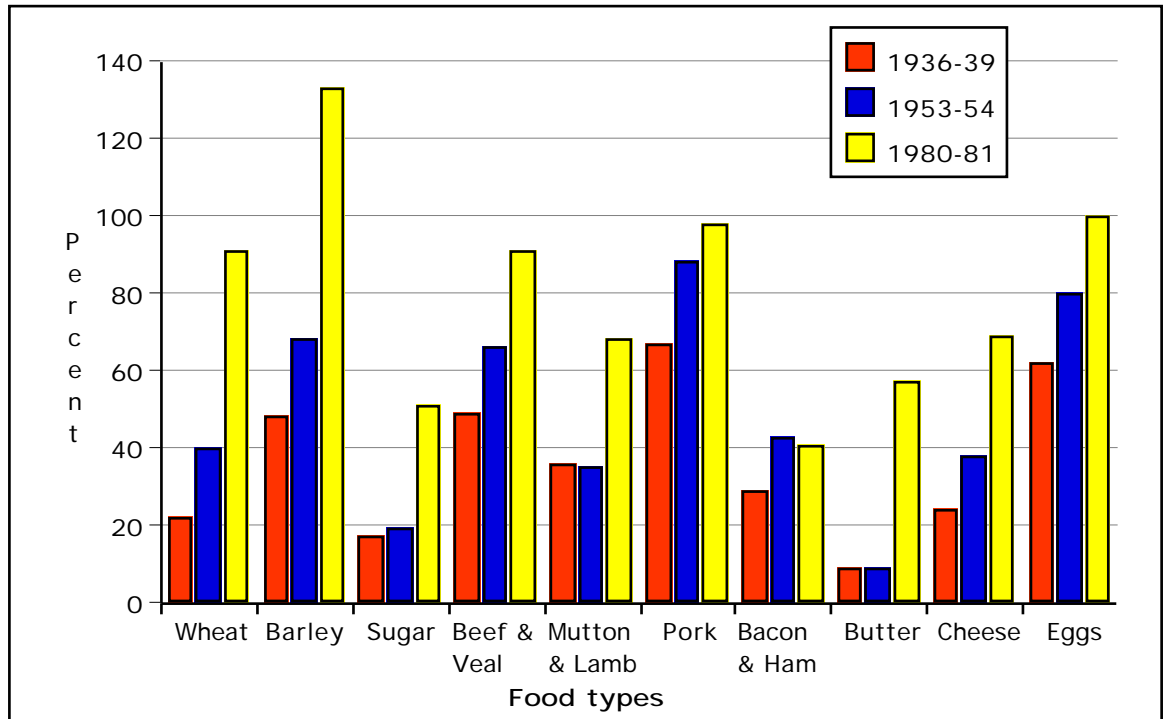


Fig. 7.02 - The growth in self-sufficiency in the production of certain foods in England and Wales between 1936 and 1981—Blunden and Curry (1985:39)

Approval status: Permission kindly granted by Taylor & Francis Books Limited 11th March 2002.

Figure 7.03. *Management and Business Skills for Engineers: Continuing Education and Training*, March 1988, published by The Engineering Council, London. The information in Fig. 7.03 on page 137 of the thesis was taken from page 9 of *Management and Business Skills for Engineers*.

Country	Percentage of top managers who have degrees	Number of qualified accountants 000s	MBA's per annum
Britain	24	120.0	1 200
USA	85	300.0 (est)	70 000
West Germany	62	3.8	0
France	65	20.0 (est)	0
Japan	85	6.0	60

Fig. 7.03 - Some international comparisons of qualified leadership in industry—The Engineering Council (March 1988:9).

Approval status: Permission kindly granted by The Engineering Council on 8th February 2002.

Figure 9.01. *Industry in Perspective: a brief guide to industry's place in society*, 3rd edition 1988, written by Graffy J C, graphic design by Muir D M, Industry/Education Link Edition, prepared by Communication Projects Oxford. The image in Fig. 9.01 appears on page 213 of the thesis, and was taken from page 7 of *Industry in Perspective*.

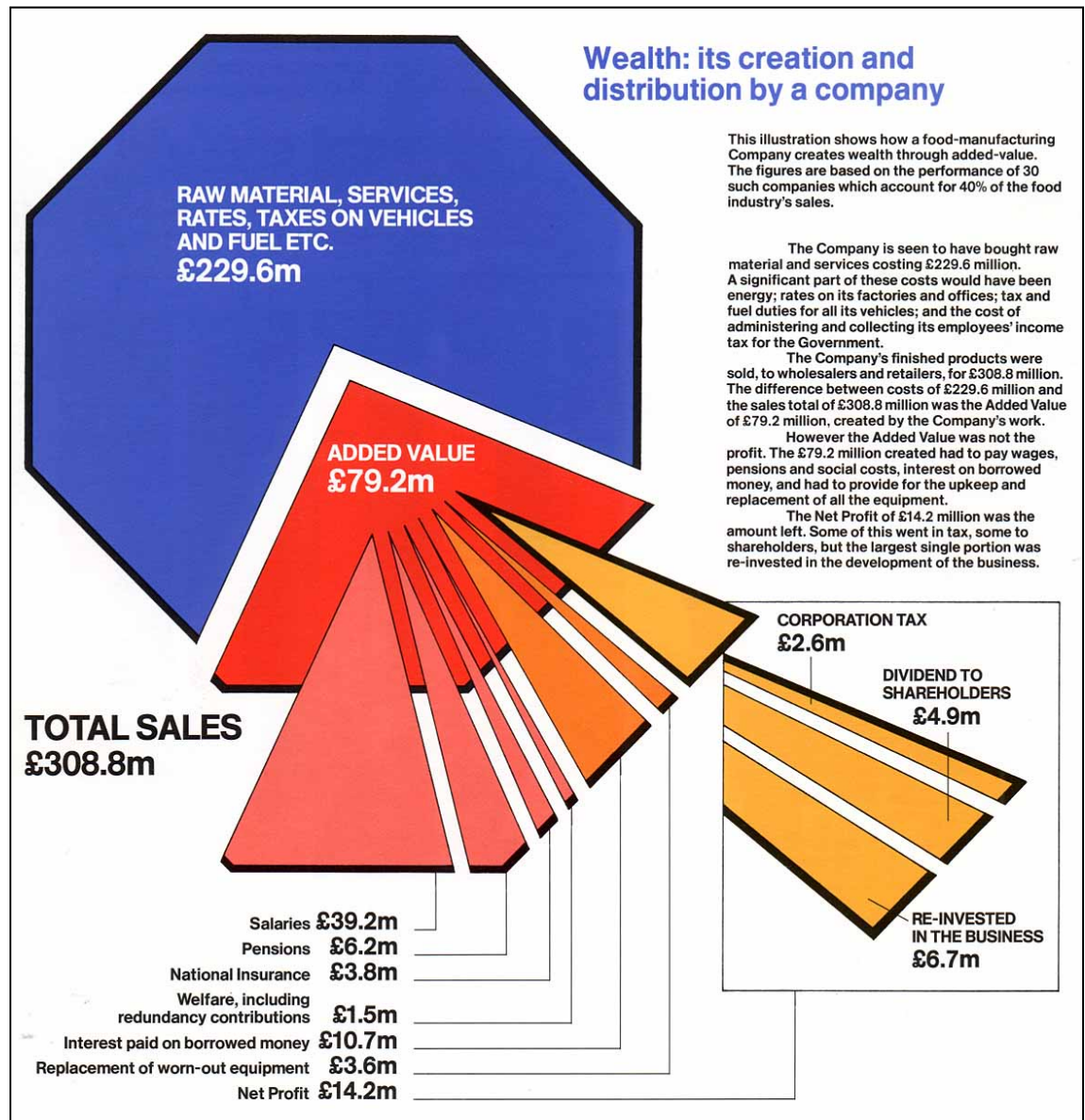


Fig. 9.01 - Example of wealth creation by a group of food-manufacturing companies see Graffy (1988:7)

Approval status: The thesis author wishes to acknowledge the excellent book *Industry in Perspective*, and the image above. So far, it has not proven possible to contact either Communication Projects Oxford, or J C Graffy. The author will be grateful for any information that enables contact with the copyright holder(s).

02 October 2002