

MS 3147/3/478
GAS LIGHTING
MEMORANDA AND SKETCHES FOR CUSTOMERS
1805—1815

INTRODUCTION

The majority of the papers in this bundle are drawings and sketches illustrating the premises of various gas lighting customers. These sketches usually show the position of pipes, burners, retorts etc. There are also memoranda and letters about the installation of lighting apparatus for various customers. Not all the customers represented in this bundle actually installed lighting apparatus – some of the sketches and notes were in reply to enquiries that never went beyond estimates. The bundle is arranged alphabetically by customer.

Some similar material will be found in the portfolios of drawings of gas lighting (Portfolios 5/804 – 5/821).

J. Douglas, Pendleton.

1. Sketches. Situations, floor plans, sections, etc. Mar. 1806. 4 sheets.
Drawings covering Douglas' Old and New Mills. By Henry Creighton?
Docketed "Particulars of lighting apparatus."

J. Douglas & Co., Holywell.

2. Sketches. Situations, floor plans, sections etc. 24 & 27 May 1806. 7 sheets.
Drawings covering Douglas' four mills – Lower Mill, Crescent Mill, White Mill and Upper Mill. By Henry Creighton?
Docketed "Photogenous sketches of the mills at Holywell."

Greg & Ewart, Manchester.

3. Memorandum & sketches. Greg & Ewart – Apparatus for Lighting. Manchester, Feb. 1806.
4. Sketches. Plans of Stories I—IV and cross section of mill. Not dated. 5 sheets.

S. Horrocks, Canal St. Factory, Preston.

5. Memorandum & sketches. Details of Horrocks' gas lighting. 27 Jun. 1806. 2 sheets.
Section and floor plans of Horrocks' mill.

Joyce Cooper & Co., Staverton, Wiltshire.

6. Sketches. Plans and sections of Joyce Coopers & Co.'s woollen mill. 5 May 1807.
Sketches by George Haden on Joyce Cooper & Co. headed bill paper..
7. Drawing. Floor plan of their premises. Not dated.

James Kennedy, Manchester.

8. Memorandum & sketches. List of James Kennedy's Lighting Apparatus. 14 May 1808.
9. Memorandum & sketches. List of James Kennedy's Lighting Apparatus. 14 May 1808.
Copy of the above list. Docketed as Sep. 1808.
10. Sketches. Rough plans and sections of James Kennedy's mill. Not dated.

George A. Lee / Philips & Lee, Salford.

[See also Portfolio 5/804.]

11. Memorandum & sketches. Details of lighting on various floors of the Old and New Mills, plans of storeys K, L, M, N, O in the Old Mill. Jun. 1806. 3 sheets.
12. Memorandum. William Murdock – respecting Mr. Lee's lighting apparatus. Jun. 1806.
13. Notes & calculations. Rough notes on the apparatus required for Philips & Lee's mills. 28 Jun. 1806. 3 sheets.
In John Southern's hand.
- 14a. Letter. George A. Lee (Manchester) to John Southern (Soho). 11 Aug. 1806.
Kept with (b) below.
 - b. Sketch. Smiths' Shop and Gazometer Pit. 11 Aug. 1806.
Copy of an original sent by Lee.
- 15a. Memorandum. Mr. Lee. 14 Aug. 1806.
Kept with (b) below.
Tables giving dimensions of pipes and sockets for Lee's lighting apparatus.
 - b. Memorandum & sketches. Arrangements of pipes for various rooms in Lee's mill. 19 Dec. 1806.
16. Memorandum. Mr. Lee's Photogenous Apparatus. 2 June 1807.
Memorandum calculating the cost of equipping Lee's mill. In James Watt Jr.'s hand.
17. Transcripts. Four transcripts on 3 sheets, as follows:
Table. Photogenous Results in Mr. Henry Creighton's letter of 28 Dec. 1807.
Memorandums etc. for Mr. Henry Creighton, by William Murdock. 19 Jan. 1808.
Letter. James Watt Jr. (Soho) to George A. Lee (Manchester). 23 Jan. 1808.
Memorandum. Answers & Observations to Mr. Murdock's Queries. Henry Creighton, Salford, 25 Jan. 1808.
Docketed "Queries to Mr. Lee and Mr. Henry Creighton with the answer of the latter."
18. Transcripts. Seven transcripts on 2 sheets, as follows:
Letter. George A. Lee [Salford] to James Watt Jr. [Soho]. 20 Jan. 1808.
Memorandum. Mr. Lee's Photogenous Apparatus. Salford, 19 Jan. 1808.
Extract of letter. Henry Creighton [Salford] to Boulton Watt & Co. 25 Jan. 1808.
Letter. George A. Lee [Salford] to James Watt Jr. [Soho]. 25 Jan. 1808.
Extract of letter. Boulton Watt & Co. to Henry Creighton [Salford]. 27 Jan. 1808.
Extract of letter. Henry Creighton [Salford] to Boulton Watt & Co. 29 Jan. 1808.
Extract of letter. George A. Lee [Salford] to Boulton Watt & Co. [?]. 4 Feb. 1808.
In James Watt Jr.'s hand.

McConnel & Kennedy, Old & New Mill, Manchester.

19. Sketches. Cross-sections and floor plans of storeys I-IV of the Old and New Mills. Feb. 1806. 5 sheets.
Docketed "Sketches of mills."
20. Memorandum. McConnel & Kennedy's Photogenous Apparatus. 29 Sep. 1806.
21. Memorandum & Sketches. Particulars of Lighting Apparatus for Messrs. McConnel & Kennedy's Old Mill. Manchester, 25 Mar. 1809. 3 sheets.
Sketches include: a plan of retorts and gazometer; cross section of Old Mill; Longitudinal Section of Part of the Retort and Gazometer House; section of the Gazometer House.
Docketed "McConnel & Kennedy lighting apparatus."
22. Sketches. Section and rough sketches of McConnel & Kennedy's New Mill, Manchester. 27 Jul. 1809.
By Henry Creighton?
23. Sketches. Section, plan and elevation of McConnel & Kennedy's New Mill, Manchester. 27 Jul. 1809.
24. Letter. Henry Creighton (Manchester) to Boulton Watt & Co. (Manchester). 9 Aug. 1809.
Docketed "Lengths of burner pipes for McConnel & Kennedy. Guides in gazometers are not to be as usual: shews how."

Marshall Hives & Co., Flax Mills, Leeds.

25. Sketches. Plan of Messrs. Marshall Hives & Co.'s flax mills. 29 Jul. 1809.
Ground and floor plans, sections etc.

Peter Marsland, Stockport.

26. Sketches. Sections of Marsland's premises. Mar. 1806.
27. Sketch. "Plan A" of Marsland's mill. Not dated.
28. Sketch. "Plan F" of Marsland's mill. Not dated.
29. Sketch. Heights of Retorts, Gazometers etc. Not dated.

Samuel Oldknow, Mellor Mill, near Stockport.

30. Sketches. Floor plans, sections, elevations etc. of Oldknow's Mill. 26 Apr. 1806 & 12 Aug. 1810. 4 sheets.

Mr. — Penson, Wigan.

31. Sketches. Floor plans & sections of Penson's mill. Not dated. 2 sheets.

Mr. — Sheppard.

32. Sketches. Rough plans of Sheppard's premises. 26 Jul. 1806. 2 sheets.
Docketed "Mr. Sheppard – photogenous sketches."

W. G. & J. Strutt, Milford and Derby.

33. Sketches & notes. Rough plans, sections and calculations. Not dated.
Docketed "Messrs. Strutt's Derby mill. Original sketches."
34. Sketches & notes. Rough plans, sections and calculations. 29 Apr. 1806. 2 sheets.
Docketed "Strutt's mill at Milford. Original sketches."
35. Drawing. Strutt's Mill in Derby – plan of mill and yard. 2 Jun. 1806.
Docketed "Estimate sent 3 July."
36. Drawings. Plans and sections of the Derby Mill. 2 Jun. 1806. 2 sheets.
37. Drawings. General Plans – Strutt's Mill at Milford. 4 & 5 Jun. 1806. 2 sheets.
- 38a. Drawing. Strutt's, Milford. 5 Jun. 1806.
Ground floor plan of Mill B. Kept with (b) and (c) below.
- b. Drawings. Floor plans of Mill A; elevations of Mills A, B, C. 5 Jun. 1806.
- c. Memorandum & sketches. Strutt's, Milford. 5 Jun. 1806.
Particulars of the retorts, burners, pipes etc.
39. Memorandum. Messrs. Strutt's Derby Mill. Not dated.
Notes on the pipes, burners etc.
40. Memorandum. Messrs. Strutt's, Milford near Derby. Not dated.
Notes on the retorts, pipes, burners etc. in Mill A and Mill B.

Charles Turner, Limehouse.

41. Memorandum. Particulars of Mr. Charles Turner's lighting apparatus. Aug. 1810.

W. Turner & Co., Wrexham.

42. Memorandum & sketches. Plans of Turner & Co.'s building. Not dated.

Watson Ainsworth & Co., Preston.

43. Memorandum. Particulars of Candles used or required in the Church St. Mills at Preston, belonging to Messrs. Watson Ainsworth & Co.
Copied from a memorandum given to James Watt Jr. by Mr. Ainsworth, 14 Mar. 1806.
44. Memorandum & sketches. Plans and sections of Watson Ainsworth & Co.'s mill. Jun. 1806. 3 sheets.

Williams Jones & Co., Birmingham.

45. Memorandum. Calculation of gazometer and retorts. 14 Aug. 1814.

Wood Daintry & Wood, Manchester.

46. Drawings. Sections and plan of Wood Daintry & Wood's New Mill. 28 Jul. 1805. 3 sheets.
Docketed "Sketch for applying the lighting apparatus. See Mr. E. S. Hutton's letter 28 July."

Wormald Gott & Wormald / Benjamin Gott, Leeds.

47. Memorandum. Messrs. Wormald Gott & Wormald, Burley Mill near Leeds. Apr. 1806.
Docketed "Estimate sent 2 July '06."
- 48a. Drawing. Section and plan of Burley Mill. Apr. 1806.
Kept with (b) – (d) below. On the same sheet:
Sketch plan of Burley Mill showing the arrangement of the pipes, burners etc. 21 Dec. 1808.
- b-d.** 3 small coloured sketch plans showing arrangements of boilers for three engines.
49. Memorandum & sketches. Armley Mill, near Leeds. Apr. 1806.
This was originally marked as Wormald Gott & Wormald, but this has been altered to "B. Gott Esq."
50. Memorandum. Messrs. Wormald Gott & Wormald, Burley Mill. 1 Jul. 1806.
In John Southern's hand.
Notes on gazometers, table of retorts etc.
51. Memorandum. Material for Mr. Gott's Photogenous Apparatus at Burley Mill. 1 Jul. 1806.
List of retorts, gazometers, pipes, stop cocks, material for a crane etc.
52. Sketch. Section and plan showing gazometers, pipes and engine at Armley Mill. 1809.
53. Letter. William Garnett & Son (Leeds) to Wormald Gott & Wormald (—). 19 Apr. 1815.
On the same sheet:
List of fleeces.
[This is unconnected with gas lighting.]

Unidentified.

54. Sketches. Floor plans and elevation of a mill. Not dated [circa 1806?].
55. Memorandum. Key to drawings showing gas lighting in a mill. Not dated.

MS 3147/3/479
GAS LIGHTING
MEMORANDA AND PAPERS ABOUT EXPERIMENTS, STOCK OF APPARATUS,
GAZOMETERS, ETC.
1805—1811

INTRODUCTION

This bundle contains various memoranda and working papers about gas lighting apparatus, including details of early experiments and estimates of some of the first sets of apparatus and gazometers made.

1. Memorandum. Dates of Mr. Murdock's Experiments upon the light obtained from coaly gas etc. etc. Apr. 1805.
Giving the dates that apparatus was made for Murdock in 1798 and 1802.
2. Letter. John Southern (Soho) to James Watt Jr. [Manchester]. 9 Mar. 1806.
Docketed "With remarks upon the number of retorts and gasometer space in photogenous apparatus."
3. Memorandum. Materials for light apparatus in hand. 4 Jun. 1806.
4. Memorandum. Estimates of Photogenous single & double lamps, stop cocks & valves, wrought iron pipes, iron work for crane, raw materials & tools, staples etc. etc. 28 Jun. 1806.
5. Memorandum. Estimates of Photogenous Retorts and Gasometers. 28 Jun. 1806.
6. Memorandum. Cost of the two first gazometers made for Messrs. Philips & Lee. Jun. 1806.
7. Memorandum. Estimates of Gasometers. 23 Sep. 1806.
Estimates of oblong gazometers for Soho Foundry and 10 foot cube gas holders for Phillips & Lee.
8. Memorandum. Note of materials prepared for photogenous apparatuses. 30 Sep. 1806.
9. Memorandum. Prime Cost of the Stock of Goods & Materials for Lighting Apparatus. 21 Jan. 1807.
10. Memorandum. Synopsis of Photogenous Experiments with the small retort. 1807.
11. Memorandum (press copy). Experiments upon the new light. 5 Dec. 1807—1 Jan. 1808. 7 sheets.
By Henry Creighton. The docket is on a separate wrapper.
Docketed "Details of photogenous experiments made by Henry Creighton at Mr. Lee's in Jan. 1808. With his letter of 10 Jan. 1808 which see for observations on the enclosed papers."
12. Memorandum. Memorandums respecting Photogenous Experiments & Results. 28 Jan. 1808. 2 sheets.
In James Watt Jr.'s hand. Covers experiments from 2 Mar. 1805 to Jun. 1807.

13. Memorandum. Particulars of Gazometers for Lister Ellis & Co., Lewis's and Coupland. Not dated [circa 1810?].
14. Memorandum. Particulars of lighting apparatus made in different years. 30 Sep. 1805—30 Sep. 1811.
15. Note. Queries about quantities of water evaporated by coke and coal. Not dated.
On the reverse is a pencil note about George Whiteley of London St.'s attempt to buy coke from the Patent Coke Office.
16. Calculations. For gas lighting apparatus. Not dated.

MS 3147/3/480
GAS LIGHTING
LETTERS AND PAPERS ABOUT THE GAS & COKE BILL
1809

INTRODUCTION

Letters and papers concerning Boulton Watt & Co.'s opposition to a bill laid before Parliament in 1809 to incorporate the proposed Gas Light & Coke Company. Boulton Watt & Co.'s opposition was based on the assertion that the company would gain a virtual monopoly on all forms of gas lighting. The company's defence was that Boulton Watt & Co. had made little progress with large scale lighting and gas supply, and had restricted themselves to installations for individual factories. Boulton Watt & Co. drew on various close associates and expert witnesses, and they presented a great deal of information on William Murdock's work as evidence. Their opposition to the bill proved successful.

Many papers and pamphlets about the bill were printed. These will be found in the next bundle, 3/481.

Nos. 1-23. Letters and Memoranda.

1. Letter. James Weston (Fenchurch St., London) to James Watt Jr. (Soho). 9 Mar. 1809.
On the same sheet:
Petition. Gas Light & Coke Co. to the House of Commons.
Docketed "Petition of the Gas Light & Coke Company to the House of Commons."
2. Letter. James Weston (Fenchurch St., London) to James Watt Jr. (—). 30 Mar. 1809.
Docketed "With copy of the Gas & Coke Bill."
3. Letter. Ambrose Weston (Fenchurch St., London) to James Watt Jr. (Soho). 30 Mar. 1809.
Docketed "Enquiry made by Capt. Huddart relative to gas lights for lighthouses."
4. Letter. George A. Lee (Manchester) to James Watt Jr. (Soho). 29 Apr. 1809.
Letter forwarded to 13 London St.
Docketed "Is ready to assist us in opposing the Gas & Coke Bill."
5. Memorandum. Mr. Lawson's Experiments with Coke & Coal. 16 May 1809.

6. Letter. Charles H. Turner (Limehouse) to James Watt Jr. (13 London St.). "Tuesday" [16 May 1809].
Docketed "Offer to assist in the Gas & Coke business."
7. Letter. J. Rickman (New Palace Yard, London) to Humphrey Davy (Royal Institution, London). 17 May 1809.
Docketed "Remarks upon the modes of opposing the Gas & Coke Bill."
8. Letter. Henry Brougham [Temple, London] to James Watt Jr. [London]. "Wednesday ½ past 4" [17 May 1809].
Docketed as 19 May, which was a Friday.
Docketed "Approves of Mr. Weston's remarks on the Gas Light & Coke Bill."
9. Draft of letter. James Watt Jr. for Boulton Watt & Co. [York Hotel, Bridge St., Blackfriars] to Sir Henry Plumer [London]. 20 May 1809.
Docketed "With a statement of the grounds of our opposition to the Gas & Coke Bill."
10. Letter. George Duckworth (Maschall's Hotel, London) to James Watt Jr. (York Hotel, London). 23 May 1809.
- 11a. Note. Henry Brougham [Temple, London] to James Watt Jr. (York Hotel, Bridge St., Blackfriars). 24 May 1809.
Not dated – date taken from the docket. Enclosing (b) below.
Docketed "With additions to the short statement on the Gas Light Bill."
- b. Text to be added to the statement.
12. Letter. Henry Brougham (Temple, London) to James Watt Jr. (York Hotel, Bridge St., Blackfriars). "Friday" [26 May 1809].
Docketed "Mr. Harrison wishes to have a conference with me."
13. Draft of letter. Henry Brougham (Temple, London) to William Harrison [London]. "Friday" [26 May 1809].
Docketed "Draft of Mr. Brougham's answer to Mr. Harrison's proposal of a compromise of our opposition to the Gas & Coke Bill."
14. Letter. James Weston (Fenchurch St., London) to James Watt Jr. (York Hotel, Bridge St., Blackfriars). 26 May 1809.
Docketed "Mr. Harrison's misrepresentation of my conversation with him."
- 15a. Letter. P. Wilson (Hampstead) to James Watt Jr. (York Hotel, Bridge St., Blackfriars). 27 May 1809.
Enclosing (b) below.
Docketed "Enclosing letters to Mr. Strachan and Mr. Babyngton."
- b. Letter. P. Wilson (Hampstead) to Thomas Babyngton M. P. (London). 27 May 1809.
Letter of introduction to Babyngton, given to Watt Jr. by Wilson.
16. Letter. William Wilberforce (New Palace Yard, London) to James Watt Jr. (York Hotel, Bridge St., Blackfriars). 27 May 1809.
The address and docket are on a separate sheet.
Docketed "Receipt of paper of remarks on the Gas & Coke Bill. Wishes to have some of Mr. Winsor's pamphlets."

17. Memorandum. Ambrose Weston (Mill Hill, London). 28 May 1809.
Docketed "Sentiments upon the proposed modification of the Gas & Coke Bill."
18. Letter. William Henry (Manchester) to James Watt Jr. (13 London St.). 29 May 1809.
Docketed "Remarks on the ammoniacal liquor from coal."
19. Letter. George A. Lee (Manchester) to James Watt Jr. (13 London St.). 30 May 1809.
Docketed "Conversation with Dr. Henry respecting the ammonia in the liquor from coal."
20. Letter. Henry Brougham (Temple, London) to James Watt Jr. [London]. "Thursday" [1 Jun. 1809].
Docketed as 31 May, which was a Wednesday.
Docketed "Returning some of the copies of his speeches."
21. Letter. John Rennie (Stamford St., London) to James Watt Jr. (York Hotel, Bridge St., Blackfriars). 2 Jun. 1809.
Docketed "Notice of the members of Parliament he has seen on the Gas & Coke Bill."
22. Letter. William Wilberforce [London] to James Watt Jr. [London]. "Friday" [2 Jun. 1809].
23. Letter. George A. Lee (Manchester) to James Watt Jr. (13 London St.). 5 Jun. 1809.
Docketed "Congratulations upon the success of our opposition to the Gas & Coke Bill. Wishes to have copies of all the papers."

Nos. 24-35. Papers.

24. Manuscript. An Account of the Application of the Gas from Coal to economical purposes, by William Murdock. 22 Feb. 1808. 8 sheets.
Draft of Murdock's paper for the Royal Society. For the printed version see 3/381, Gas Lighting Pamphlets.
25. Memorandum. An Experiment concerning the spirit of coals, by the late George Clayton DD.
Referred to in the above manuscript.
Marked "Extract from the Abridgement of the Phil. Transactions by Hutton, Shaw and Pearson. Vol. 8 Part 2nd p. 295, being Vol. 41 of the original No. 452 p/ 59." *Docketed "Dr. Clayton's experiments on the spirit of coals from the Phil. Trans., anno 1739."*
26. Manuscript. The Case of those who are opposing the Bill for incorporating a Gas Light Company. [Circa May 1809]. 15 pages.
27. Memorandum (draft). Observations in opposition to the Bill now depending in Parliament... London, 3 May 1809.
In James Watt Jr.'s hand.
28. Memorandum. Notes on William Murdock's experiments with gas lighting. Not dated [circa 1809].
In James Watt Jr.'s hand.
29. Memorandum. Remarks on Mr. Accum's evidence. May 1809.
In James Watt Jr.'s hand.

30. Memorandum. List of names and addresses of M. P.s opposed to the Gas Light Bill [?].
Not dated [circa Jun. 1809?].
In James Watt Jr. 's hand.
31. Memorandum. Further remarks in opposition to the Gas & Coke Bill. 1 Jun. 1809.
32. Memorandum. Further remarks in opposition to the Gas & Coke Bill. 1 Jun. 1809.
Copy of the above.
33. Memorandum. Gas Light & Coke Bill – Copy Draft of additional clauses intended to be proposed on the 3rd reading.
Marked "Received 1 Jun. from Mr. Pedder – A. & J. W. [Ambrose & James Weston]."
34. Memorandum. Remarks by ? about the Gas Light Bill petition. Not dated [circa Jun. 1809.]
- 35a. Bill. James Watt Jr.'s bill at the York Hotel, while opposing the Gas Light & Coke Bill. 17 May—14 Jun. 1809.
Kept with (b) – (d) below.
- b. Bill. Benjamin Gott and Friends bills at the York Hotel, while opposing the Gas Light & Coke Bill. 5—17 May 1809.
- c, d. Receipts. Payments of the above bills by James Watt Jr. 18 May & 14 Jun. 1809.
36. Bundle label.
Marked "Gas Light Papers, 1809."

MS 3147/3/481
GAS LIGHTING
PAMPHLETS ABOUT GAS LIGHTING AND THE GAS LIGHT & COKE BILL
1785—1816

INTRODUCTION

The material in this bundle was assembled during the opposition to the Gas Light & Coke Bill in 1809, when James Watt Jr. and Matthew Robinson Boulton were in London for the proceedings. The bundle was later occasionally added to. Several of the pamphlets are marked "J. Watt Jr." or "A. Weston" (Ambrose Weston, Boulton Watt & Co.'s attorney in London).

For letters and papers about the opposition to the bill, see the previous bundle, 3/480.

1. Bundle label.
Card marked "Gas Light Pamphlets 1809." Written on the reverse of a card from H. J. & G. H. Robins of Covent Garden to Thomas Wright asking him to show James Watt his house in Hornsey.
2. Printed act. Vesting in Archibald Earl of Dundonald... the sole Use and Property of a Method of extracting or making Tar, Pitch, Essential Oils, Volatile Alkali, Mineral Acids, Salts and Cinders, from Pit Coal... 1785. 7 pages.

3. Printed pamphlet. The superiority of the new patent coke over the use of coals... displayed... by the new Imperial Patent Light Stove... London, 1804 [?]. 12 pages.
Pamphlet describing F. A. Winsor's display of his apparatus at The Lyceum theatre.
4. Printed circular letter. Terms and Conditions of the National Light and Heat Company. Not dated.
Letter by F. A. Winsor.
5. Printed pamphlet. An account of the application of the Gas from Coal to economical purposes, by Mr. William Murdock, read before the Royal Society, on the 25 Feb. 1808, and printed in the *Philosophical Transactions* for that year. 1808. 8 pages.
6. Printed pamphlet. The Report of James Ludovic Grant, Esq., Chairman, and the other acting trustees of the fund for assisting Mr. Winsor in his experiments. London, 1808. 46 pages.
Report presented at a meeting of the subscribers to the fund at the Crown & Anchor Tavern, The Strand, 26 May 1808.
7. Printed pamphlet. Considerations on the nature and objects of the intended light and heat company. London, 1808. 26 pages.
8. Printed pamphlet. An Heroic Epistle to Mr. Winsor, the patentee of the hydro-carbonic gas lights and founder of the national light and heat company. London, 1808. 19 pages.
9. Printed bill. To incorporate certain Persons for procuring Coke, Oil-Tar, Essential Oil, and Inflammable Air from Coal, and for other Purposes. 1809. 18 pages.
10. Printed bill. Second copy of the above.
11. Printed pamphlet. In Parliament – Remarks upon the Bill for incorporating the Gas Light & Coke Company. London, 1809. 19 pages.
- 12a-c. Printed pamphlets. Three pamphlets sewn together.
The three pamphlets have been sewn into a paper cover marked "Squibs." The pamphlets are as follows:
 - a. Remarks upon the Bill for incorporating the Gas Light & Coke Company. London, 1809. 19 pages.
 - b. A letter to a Member of Parliament from Mr. William Murdock, in vindication of his character and claims; in reply to a recent publication by the Committee for conducting through Parliament a Bill for incorporating a Gas Light & Coke Company. London, 1809. 15 pages.
 - c. An account of the application of the Gas from Coal to economical purposes, by Mr. William Murdock, read before the Royal Society, on the 25 Feb. 1808, and printed in the *Philosophical Transactions* for that year. 1808. 8 pages.
13. Printed pamphlet. A letter to a Member of Parliament from Mr. William Murdock, in vindication of his character and claims; in reply to a recent publication by the Committee for conducting through Parliament a Bill for incorporating a Gas Light & Coke Company. London, 1809. 15 pages.
Murdock's letter is dated 4 May 1809.

- 14—16. Printed pamphlets. Three copies of the above pamphlet.
The third copy is missing the cover and last page.
[Note that this pamphlet was re-printed in 1892. The later printing is hard to tell apart from the original, so some of these copies may be from that later printing.]
17. Printed pamphlet. Gas-Light Bill. London, 1809. 13 pages.
This pamphlet describes the opposition to the bill.
- 18—25. Printed pamphlets. Eight copies of the above pamphlet.
26. Printed leaflet. General Shipping & Commercial List No. 2424. 9 May 1809.
- 27—29. Printed cards. Requesting attendance at the committee on 15 May 1809. 3 cards.
30. Printed minutes. Minutes of Evidence taken before the Committee to whom the Bill to incorporate certain Persons for procuring Coke, Oil, Tar, Pitch, Ammoniacal Liquor, Essential Oil, and Inflammable Air, from Coal; and for other Purposes; was committed. 19 May 1809. 31 pages.
- 31—34. Printed minutes. Four copies of the above.
35. Printed speeches. Speeches of Charles Warren Esq. and William Harrison Esq. delivered before a Committee of the Honourable House of Commons in support of a bill, to authorise His Majesty to grant a Charter of Incorporation to certain persons, by the name of The Gas Light and Coke Company. London, 1809. 35 pages.
36. Printed speeches. Speeches of Henry Brougham Esq. delivered before a Committee of the Honourable House of Commons in opposition to a bill, to authorise His Majesty to grant a Charter of Incorporation to certain persons, by the name of The Gas Light and Coke Company. London, 1809. 31 pages.
37. Printed speeches. Second copy of the above.
38. Printed card. Requesting attendance at the third reading of the Gas Light Bill on 2 Jun. 1809.
39. Manuscript. A Bill for enabling His Majesty to incorporate by Charter a Company to be called “The Gas Light and Coke Company”, for procuring Coke, Oil-Tar, Pitch, Asphaltum, Ammoniacal Liquor, Essential Oil and Inflammable Air from Coal and for other Purposes. 1810 [?]. 24 pages.
Very similar to the printed bill below. Marked “Pedder” [a lawyer involved with the Gas Light Bill].
40. Printed bill. For enabling His Majesty to incorporate by Charter a Company to be called “The Gas Light and Coke Company”, for making Inflammable Air for Lighting of the Streets of the Metropolis, and for procuring Coke, Oil, Tar, Pitch, Asphaltum, Ammoniacal Liquor, and essential Oil from Coal, and for other Purposes. 1810. 21 pages.
Marked “Mr. Murdock will please peruse this and take it with the note to Mr. Watt Jr. 15 Mar. 1810.”
41. Printed pamphlet. The Gas Lights – A Poem. Leith, 1812. 12 pages.
Poem by “D. D.”, Kirkland, 7 Feb. 1812.
42. Printed bill. To alter and enlarge the Powers of two Acts of his present Majesty, for granting certain Powers to the Gas Light and Coke Company. 1816. 24 pages.

MS 3147/3/482
STEAM BOATS
MISCELLANEOUS CORRESPONDENCE
1810—1827

INTRODUCTION

Miscellaneous letters about steam boats, from 1810 to 1827. These letters were probably removed from the various series of general incoming correspondence, and the majority are docketed either by James Watt Jr. or by William Creighton. Most were found in Box 8, the “Steamboat Box”, but others were found scattered through the collection. The letters include the first correspondence from James Brown, who went on to become Boulton Watt & Co.’s London agent and who in 1842 became a partner when M. R. Boulton left the firm.

1. Transcript of letter. Thomas Baldock (Falmouth) to ? 31 Aug. 1821. 4 sheets.
Docketed “Some account of American steam vessels.”

- 2a. Letter. James Brown (Union Inn, Union St., Birmingham) to Boulton Watt & Co. (Soho). 23 May 1815.
Kept with (b)—(d) below. On the same sheet:
Memorandum. Details of the *Caledonia*, *Perseverance* and intended new boat *Eagle*.
Docketed “Tyne Steam Packet Boat Co. – James Brown. Particulars of the Caledonia and Perseverance Tyne steam boats.”

- b. Calculations. Performance of the *Caldeonia* and *Perseverance*.

- d. Memorandum. *Caledonia*.
In William Creighton’s hand. Details of her construction, paddles, performance etc.

- e. Calculations. Performance of the Cork boat predicted from the performance of the *Prince of Orange* and *Argyle*.

3. Letter. James Brown (Newcastle) to Boulton Watt & Co. (Soho). 29 Jun. 1815.
On the same sheet:
Drawings. Plan and section of Tyne boat [*Eagle?*]; drawings of paddle wheels.
Docketed “Observations on our drawings. Proposes turning the engine, boilers etc. end for end. Also wishes the paddle wheels to be detached at pleasure. Sketches of boat – and of the paddle wheels as now in use on their present boat.”

4. Letter. James Brown (Newcastle) to James Watt Jr. (Soho). 6 Sep. 1815.
Docketed “Will leave his present employment in November and renews the offer of his services. The Tyne boat ready for launching. They expect the engine.”

5. Letter. James Brown (Newcastle) to James Watt Jr. (Soho). 4 Jan. 1816.
Docketed “States circumstances in extenuation of Johnson’s conduct. Has left the Tyne Boat Co. and is going to settle some affairs at Dundee.”

- 6a.** Letter. James Brown (Newcastle) to James Watt Jr. (Soho). 16 Jan. 1816.
Enclosing (b) below.
Docketed "The Committee express their regret individually at their letter of 3 Jan. Expects the engine will be completed by the end of the ensuing week. Mr. Reid says he shall not accept our draft until the engine has been at work a fortnight. Sets out for Scotland tomorrow and will return by the time they start the engine. Encloses the Tyne Company's testimonial in his favour."
- b.** Letter. Members of the Committee of the Tyne Steam Packet Co. (Newcastle) to Boulton Watt & Co. [Soho]. 17 Jan. 1816.
- 7.** Transcripts. Carlisle & Liverpool Steam Co. Feb.—Oct. 1825.
In James Watt Jr.'s hand. The docket is on a separate wrapper.
Docketed "Mr. Watt 27 Oct. 1825. Sketch of Correspondence etc. etc., relative to Solway & Cumberland steamers. See letter to Mr. Dixon 17 Jun. 1820. The Carlisle & Liverpool Steam Packet Co. were written to on 16 Aug. 1830 reminding them of the account of interest £225.12.4. Mr. B. Scott of Carlisle written to 2 May 1831 with copy of the above statement."
- 8.** Letter. Henry Creighton (Glasgow) to Boulton Watt & Co. (Soho). 25 Oct. 1814.
On the same sheet:
Sketch. Apparatus for raising paddle wheels.
Notes of various accounts.
Docketed "Performance, and description of several boat engines etc. Accounts presented and receipts from sundries. Repairs in hand."
- 9.** Letter. Henry Creighton (Glasgow) to Boulton Watt & Co. (Soho). 3 Mar. 1817.
On the same sheet:
Sketches. Plan of the boat design sent to him; sections of Schank's model.
Docketed "Observations on the design of a steam boat sent him. Remarks on Caledonia and others. Dimensions of Capt. Schank's model for a canal barge."
- 10.** Letter. Henry Creighton (Glasgow) to Boulton Watt & Co. (Soho). 7 Mar. 1817.
On the same sheet:
Sketches. Sections and plan of various boats.
Docketed "Respecting the dragging boat on Forth with opinions on it and others."
- 11.** Letter. Henry Creighton (8 York St., Glasgow) to William Creighton (Soho). 7 Jun. 1817.
Forwarded to James Watt Jr. at 13 London St.
- 12a.** Letter. Peter Dixon Jr. (Warwick Bridge) to Boulton Watt & Co. [Soho]. 16 May 1827.
Kept with (b) and (c) below.
Docketed "The Carlisle & Liverpool Co. object to the charge of interest. Will remit the principal on 10 Jun. Praise the engines, but state them to be dearer than others."
- b.** Account. The Carlisle & Liverpool Steam Packet Co. debtors to Boulton Watt & Co. 1 May 1827.
- c.** Transcript of letter. Boulton Watt & Co. [Soho] to The Carlisle & Liverpool Steam Packet Co. [Carlisle]. Circa 15 Jun. 1827.
- 13.** Letter (in French). Ch. Dupin (Glasgow) to James Watt (Glasgow). 28 Sep. 1817.
Docketed "Observations on the comparative speed of the Britannia and Rothesay Castle steam boats."

14. Letter. W. Evans (Rotherhithe) to Boulton Watt & Co. [Soho]. 12 Sep. 1820.
Docketed "General dimensions and draft of Post Office steam packet No. 2."
15. Transcript of letter. Peter Ewart (Manchester) to William Creighton [?] [Soho]. 30 Apr. 1817. 2 sheets.
On the second sheet:
Table of performance of various steam boats.
Docketed "Steam boats."
16. Letter. Peter Ewart (Manchester) to William Creighton (Soho). 13 Mar. 1818.
17. Printed memorandum. Prospectus of the India Steam Packet Co. May 1824.
Sent by John Mosley on 9 Jul. 1824.
18. Transcript of letter. Boulton Watt & Co. (13 London St.) to the Committee of the London & Edinburgh Steam Packet Co. [London]. 21 Nov. 1822.
Docketed "Report upon the state of their engines and boilers, and the repairs required for the latter. Propose increasing the power of the City of Edinburgh 12 to 15 horses. Estimate and time. Recommend new headstocks and connecting wheels to be substituted now for the present ones."
19. Transcript of letter. Henry Maudslay (Lambeth) to the Proprietors of the *London Engineer* Steam Yacht [London]. 30 Dec. 1819. 5 sheets.
Paper by Maudslay on the boat's performance, engines etc. including transcripts of various reports and letters.
20. Letter. John Mosley (London) to Boulton Watt & Co. (Soho). 14 Feb. 1817.
On the same sheet:
Memorandum & 4 sketches. Steam Packets from Dublin to Holyhead from Martin the Engine Keeper now at Soho.
Docketed "Conference with Marquis Grimaldi, the Sardinian Minister, respecting the proposed steam boats for Naples to Palermo. He wishes us to give our opinion about the size and build of the ships. Shear's price for boilers. Particulars of the Holyhead steam packets from Martin at Soho."
21. Letter. Thomas & James Perry (Wolverhampton) to Boulton & Watt (Soho). 15 Jun. 1810.
Docketed "Want estimate of a boat engine etc. for a canal."
22. Letter. Thomas & James Perry (Wolverhampton) to Boulton & Watt (Soho). 26 Jun. 1810.
Docketed "Enquire the power of the boat engine on the Birmingham Canal. Also if it can be applied to raising water at the locks on the Thames & Severn Canal. Size of the locks and barge."
23. Letter. John Porter (Pavia) to Boulton Watt & Co. (Soho). 28 Jun. 1827.
Docketed "Trial of the Eridano up the Po. 7 miles per hour up, 11 miles down. 180 kilogrammes of coal per hour, about ½ what Fawcett's engines burn. Pavia boat called Virgil – 4 days from Venice to Pavia, got through the 5 mile current at Piacenza. A voygae to Ancona. Both vessels give satisfaction. Indifferent account of Pritchard."
24. Letter. Andrew Scott [New York] to James Watt (nr. Birmingham). — Nov. 1817.
Docketed "Received Rotterdam 26 Dec. Particulars of the Fulton and Connecticut steam boats. Some particulars respecting the Chancellor Livingstone steam boat."

25. Letter. Members of the Committee of the Tyne Steam Packet Co. (Newcastle) to Boulton Watt & Co. [Soho]. 17 May 1815.
Docketed "Introducing their agent Mr. Brown. Enquiries relative to steam engine."
26. Printed pamphlet. Deed of co-partnership and rules and regulations of the Tyne Steam Packet Company, established 2nd December 1814. 1815.
27. Letter. Wallis Sheres & Co. (Blackwall) to the Committee for building the *Swiftsure* steam boat [London]. 17 Aug. 1819.
28. Letter. Henry van Wart (Summer Row, Birmingham) to Boulton Watt & Co. [Soho]. 7 Sep. 1818.
Docketed "With plate of Mr. Ogden's patent steam boat engine, and enquiry about price."
29. Letter. ? (—) to ? (—). Not dated. 2 sheets, the second of which is wanting.
About Miller's steam boats etc.

MS 3147/3/483
STEAM BOATS
FORTH & CLYDE TUG
1828—1831

INTRODUCTION

A bundle of letters, memoranda and drawings about steam boats on the Forth & Clyde Canal from 1828 to 1831. The bundle contains reports of trials and experiments on various boats, including a tug boat built by Thomas Grahame, and a twin-hulled iron boat with a high-pressure steam engine built by William Fairbairn.

- 1a. Memorandum. A Statement shewing how the Forth & Clyde Canal Company may by a present outlay on lining the banks with stone, and on Steam Boats, for passengers, and towing the Trade, diminish their annual outlay and increase their annual revenue. John Murray, Sep. 1828.
Kept with (b) below. With a sketch of a boat on the reverse.
Docketed "Improvements on the Forth & Clyde Canal suggested by Mr. Murray."
- b. Memorandum. Abstract of Mr. Murray's view of increasing the Revenue of the Forth & Clyde Canal. [Circa Sep. 1828.]
In John Robison's hand.
2. Memorandum. Experiments made on the Forth & Clyde Canal with the *Cupid* steam boat. 29 Oct. 1828.
In James Watt Jr.'s hand.
3. Memorandum. Crew of Steam Tugs on the Clyde. 4 Nov. 1828.
Note of the wages of the crew of the Samson.
4. Letter. Robert Grahame (Glasgow) to James Watt Jr. [Glasgow]. 5 Nov. 1828.
Docketed "Has been unwell, and has not yet received the report of Mr. Murray's experiments with the steam tug. He has now completed them and is returning the boat to the Clyde."

- 5a. Memorandum. *Cupid* steamer on the Forth & Clyde Canal – report by John Murray. 6 Nov. 1828.
The docket is on a separate wrapper. Kept with (b) below.
- b. Memorandum. Copy of the minute of Committee of Council of the Forth & Clyde Canal Co. respecting steam boats. 6 Nov. 1828.
6. Memorandum. Load on the safety valve of *Cupid* steamer. Size of the engine room. 6 Nov. 1828.
By John Murray.
7. Letter. Robert Grahame (Whitehill) to John Robison (Atholl Crescent, Edinburgh). 15 Nov. 1828.
On the same sheet:
Transcript of letter. Robert Grahame to James Watt Jr. (Edinburgh). 15 Nov. 1828.
Memorandum. Canal Passage Boats – *Vulcan, Shamrock, Margaret, Charlotte.*
Docketed “Dimensions etc. of the Passage Boats on the Forth & Clyde Canal.”
8. Letter. John Robison [Edinburgh] to James Watt Jr. [Edinburgh]. “Saturday morning” [15 Nov. 1828].
On the same sheet:
Sketch. Plan of a tug boat.
Docketed “Suggestions for tow boats on the Forth & Clyde Canal.”
9. Letter. Thomas Wilson (Tophill) to John Robison (9 Atholl Crescent, Edinburgh). 19 Nov. 1828.
Docketed “Cost of the Cyclops and Etna iron boats on the Forth & Clyde Canal. Estimate of lengthening the Cyclops 8 feet and widening it 2½ feet. Cost and estimate of boats built of oak and part of oak and iron. Estimate of a new iron passage boat and of an oak ditto. Thinks side paddles objectionable.”
10. Letter. John Robison [Edinburgh] to James Watt Jr. [Manchester]. 20 Nov. 1828.
Sending Watt the above letter from Thomas Wilson.
Docketed “With sketches of an iron boat, showing methods of adapting it to carry an engine on the Forth & Clyde Canal.”
11. Letter. Robert Grahame (Whitehill) to James Watt Jr. (Soho). 29 Nov. 1828.
On the same sheet:
Memorandum. Canal Passage Boats – *Vulcan, Shamrock, Margaret, Charlotte.*
Docketed “Dimensions and cost of Canal Passage Boats.”
12. Letter (press copy). James Watt Jr. (Aston) to John Robison (Edinburgh). 30 Mar. 1829. 2 sheets.
13. Letter. James Brown (London) to James Watt Jr. [Soho]. 21 Apr. 1829.
Mis-docketed as 1831.
Docketed “With drawings of two towing steamers for the Forth & Clyde Canal. Particulars and calculations respecting them. Has not retained copies of the drawings.”
14. Letter. Thomas Grahame (Glasgow) to John Robison (Atholl Crescent, Edinburgh). 3 Sep. 1829.
Docketed “State of proceedings with regard to steam tugs on the Forth & Clyde Canal. No person willing to make the experiments at their own risk. Proposes having the Cyclops fitted up. Proposes again having the engine from us.”

15. Letter. John Robison (Edinburgh) to James Watt Jr. (Aston Hall). 13 Sep. 1829.
Docketed "With drawings of the Cyclops iron boat. Drawn by 2 horses at the rate of 7 miles per hour. Consults about widening it, for accomodation to passengers. Account of Williams' double towing boat. Thinks a paddle wheel at the stern would do better. Boat may be steered from the head. Mr. Barnet of the Experimental Garden has sent some varieties of the strawberry. Wishes to have a couple of plants of the Imperatrice plum."
16. Letter. John Robison (9 Atholl Crescent, Edinburgh) to James Watt Jr. [Soho]. 14 Oct. 1829.
Docketed "Forth & Clyde Canal Co. wish to hear about their steam tug. Remarks on Liverpool trials of locomotives."
- 17a. Letter. Thomas Grahame (Castle Toward) to James Watt Jr. (Aston Hall). 10 Jul. 1830.
Letter continued on 13 Jul. Enclosing (b) below.
Docketed "Sends pattern for the stocks of the guns ordered from Dodds. Mrs. Grahame unwell. Experiments made with his twin boat on the Forth & Clyde and Union Canals."
- b. Newspaper cutting. "Improvement on canal navigation." From the *Glasgow Courier*, 8 Jul. 1830.
18. Letter. William Fairbairn (Manchester) to James Watt Jr. (Soho). 24 Jul. 1830.
Docketed "Superintended the experiments with a twin boat on the Forth & Clyde Canal. Decrease of wave with the increase of velocity. Has an order for two twin boats of iron, and wishes us to make locomotive engines for it. Proposes coming here with Mr. John Kennedy."
- 19a. Letter. Thomas Grahame (Glasgow) to James Watt Jr. (Aston Hall). 28 Jul. 1830.
Enclosing (b)—(d) below.
Docketed "Experiments with twin boat on Forth & Clyde Canal."
- b. Memorandum. Journal of an Experimental Voyage in Mr. Thomas Grahame's Twin Boat *Swift* between Port Dundas and Port Hopetown. 7—8 Jul. 1830.
- c. Memorandum. Experiments made on the Forth & Clyde Canal with Mr. Thomas Grahame's Twin Boat *Swift*. 9—10 Jul. 1830.
Also contains details of experiments with Mr. Nelson's iron boat, 10 Jul., and experiments with the Swift on the Monkland Canal, 12 Jul.
- d. Memorandum. Experiments made with the Twin Boat *Swift* on Forth & Clyde Canal. 13—14 & 16 Jul. 1830.
20. Transcript of extract of letter. Peter Ewart (Manchester) to James Watt Jr. [Soho]. 10 Aug. 1830.
Docketed "Explains the dynamometer used in Mr. Grahame's experiments with the boat on the Forth & Clyde Canal and gives further information concerning them."
21. Letter. Thomas Grahame (Glasgow) to James Watt Jr. (Aston Hall). 20 Oct. 1830.
Docketed "Sends, in a box of game, a report of the trial of the Cyclops with a low pressure engine and a paddle wheel at stern. Sends also drawing of the Cyclops, and one of the twin boat building at Manchester for high pressure engines. About to start a horse boat, to go and return from Edinburgh in 6½ hours. Will not be satisfied with less than 16 miles an hour by steam!! Enquires about his guns."

- 22a.** Letter. Thomas Grahame [Glasgow] to James Watt Jr. [Aston Hall]. 20 Oct. 1830.
Sent with (b) and (c) below, separately from the above letter.
Docketed "Mr. Grahame's report upon the trial of the Cyclops steamer, with his letter of 20 Oct. 1830."
- b.** Sheet of drawings. Plan and sections of the *Cyclops* steamer. 20 Oct. 1830.
By John Murray.
- b.** Drawings. Plan and sections of a boat.
Docketed "Sketch of twin boat building by Fairbairn for a high pressure engine on the Forth & Clyde Canal."
- 23.** Letter. James Brown (London) to James Watt Jr. (Soho). 8 Nov. 1830.
Docketed "Returns Mr. Grahame's drawing etc. of Cyclops and of twin steam boat, for Forth & Clyde Canal. Thinks the engine placed too near the stern in the Cyclops. Query about power of engine, size of paddle wheels etc."
- 24.** Letter. Thomas Grahame (Mauldslie) to James Watt Jr. (Aston Hall). 13 Nov. 1830.
On the same sheet:
 Transcript of letter. N. [?] Webster (—) to Thomas Grahame. 30 Oct. 1830.
Docketed "Has only seen one of his guns etc. Expectation as to time of working his boats with horses from Glasgow to Edinburgh. Report of the performance of a passage boat on the Paisley Canal."
- 25.** Letter. John Robison (Atholl Crescent, Edinburgh) to James Watt Jr. (Aston Hall). 29 Apr. 1831.
Docketed "Fairbairn's trial of his high pressure engine and iron twin boat on the Forth & Clyde Canal. An agent of Morgan's is trying to introduce his paddle wheels."
- 26.** Letter. John Robison (London) to James Watt Jr. [Soho]. 25 Oct. 1831.
Docketed "Conferences with Mr. Brown who agrees with his views and will make sketches of vessel when determined on. Mr. Grahame recommends waiting until Fairbairn's boats have had more trial. About to return to Scotland, where he still hopes to get his towing vessel agreed to."