

BOARD OF TRADE

S
H2
[HA 251]

*The Report on the
Census of Production
for 1954*

Volume 4: Industry O

ELECTRIC LIGHTING ACCESSORIES AND FITTINGS



*Presented by the Board of Trade to Parliament in pursuance of the
Statistics of Trade Act, 1947 (10 & 11 Geo. 6 Ch. 39, Sec. 7)*

LONDON: HER MAJESTY'S STATIONERY OFFICE

1957

PRICE 1s 9d NET

The Report on the Census of Production for 1954

VOLUME 4, INDUSTRY O

ELECTRIC LIGHTING ACCESSORIES AND FITTINGS

THIS REPORT on the Electric Lighting Accessories and Fittings Industry relates to establishments engaged wholly or mainly in the manufacture of electric lighting accessories and fittings and electric bell apparatus.

This industry is included with the manufacture of domestic electrical appliances and other electrical goods in minimum list heading 79(2) in the Standard Industrial Classification.

No production was recorded in Northern Ireland in this industry for 1954.

LIST OF TABLES

Table No.	Title	Page	Table No.	Title	Page
1	Industry summary: estimates for the industry as a whole	4/0/3	6	Sales of principal products of the industry by establishments classified to other industries	4/0/5
2	Summary of returns received	4/0/3	7	Sales in the industry of other than principal products	4/0/5
3	Analysis by size, 1954	4/0/4	8	Total make of intermediate products	Does not apply
4	Analysis according to specialisation within the industry, 1954	Does not apply	9	Purchases of materials and fuel, 1954	4/0/6
5	Sales of principal products of the industry, including sales of these products by establishments classified to other industries	4/0/4	10	Average number of employees and wages, salaries and superannuation payments	4/0/9
			11	Employment in a specified week	4/0/9

IMPORTANT NOTES and definitions appear on the next page. In interpreting the data in the tables, it is essential to bear these in mind.

S
42
[HA 251]

312.57

The following notes describe terms in general use in the tables of the report. More detailed explanations of the terms used and a description of the scope and method of taking the census are given in the separate booklet entitled 'The Report on the Census of Production for 1954 - Introductory Notes' (price 1s. 6d. net).

Industrial Classification: Establishments are classified to industries according to the nature of their output and, as far as possible, in conformity with the Standard Industrial Classification. Certain products are identified as the principal products of individual industries, the principal products for a given industry being of a similar nature or commonly associated in production. The principle of classification normally followed is that an establishment is classified to an industry if its output of the principal products of that industry accounted for a greater proportion of the value of its output than did its output of the principal products of any other industry.

Specialist producers normally comprise those establishments 50 per cent. or more of whose total output by value is accounted for by the characteristic products of the specialist group.

Intermediate products: For some industries figures are given showing the total quantities made during the year of intermediate products, i.e., products which may be further processed in the establishments in which they are produced.

Larger establishments: The information given in the report relates mainly to 'larger establishments', i.e., establishments of firms employing on the average more than 10 persons. In most cases an establishment comprises the whole of the premises under the same ownership or management at a particular address (e.g., a mine or factory). Offices, warehouses, laboratories and other ancillary places of business situated apart from the producing works are not regarded as separate establishments and are included in the return for the works.

Small firms are those employing on the average 10 or fewer persons.

The estimates for the industry as a whole given in Table 1 are normally obtained by increasing the other items shown in the same proportion as total employment.

Gross output (production) is the total value of goods made and other work done during the year: it is obtained by adjusting the value of sales and work done during the year for changes in the value of stocks of products on hand for sale and work in progress.

Net output is the amount left after deducting from the value of gross output the aggregate of the cost of materials and fuel used, the amount paid for work given out, and, for 1951 and 1954, any transport payments made. This represents the value added to materials by the process of production, and constitutes the fund from which wages, salaries, rents, rates and taxes, advertising and other selling expenses and all other similar charges have to be met, as well as depreciation and profits.

Sales means sales during the year of goods made in the establishment covered by the return or made on commission for it, whether produced in the year or not. The value of sales is the net selling value, i.e., the amount charged to customers, whether on an ex-works or delivered basis, and net of any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc. For goods charged on a delivered basis to customers overseas, firms were required to give the f.o.b. value.

Materials and fuel: The total cost of materials and fuel purchased includes all purchases during the year of materials for use in production, and of fuel (includ-

ing oil, gas and electricity) for all purposes; packing materials, including the full cost of returnable cases when first purchased; workshop and office materials; water charges; materials for repairs to buildings, plant and vehicles when carried out by firms' own work-people included in their returns; consumable tools; and parts for machinery purchased as replacements. Purchases of goods for merchanting are excluded. The cost of materials and fuel used, given in Table 2, is obtained by adjusting purchases for changes during the year in the value of stocks.

Stocks: Firms were required to give stocks of materials and fuel, products on hand for sale, and work in progress, at income tax values.

Customs and Excise Duty paid on materials purchased is normally included in the cost of materials. Finished goods are similarly valued as they were sold, duty-paid or duty-free. The net amount of any duty paid is deducted in arriving at net output.

Employment: Total employment includes working proprietors, administrative, technical and clerical employees, and operatives, but excludes outworkers, canteen employees and persons engaged in merchanting or any other activity not covered by a firm's return, who are shown separately as excluded employees. Employees are persons on the pay-roll (i.e., persons whose National Insurance cards were held by employers), whether employed full-time or part-time.

Working proprietors are proprietors of businesses other than limited companies, together with members of their families who worked in the business without receiving fixed wages or salaries. Any persons working less than half the normal hours are excluded. For Northern Ireland directors of limited companies (other than those paid by fee only) are also included.

Administrative, technical and clerical employees include directors, other than those paid by fee only (except in Northern Ireland); managers, superintendents and works foremen; research, experimental, development, technical and design employees (other than operatives); draughtsmen and tracers; travellers; and office (including works office) employees.

Operatives include all other classes of employees, i.e., broadly speaking, all manual workers.

Outworkers are persons employed by the firm who work on materials supplied by the firm in their own homes.

Wages and salaries include all overtime payments, bonuses and commissions without any deductions for income tax, insurances, contributory pensions etc. They exclude payments to working proprietors.

Capital expenditure includes expenditure on new building work, and on plant, machinery and vehicles, charged to capital account during the year, including any transport and installation costs involved. It includes expenditure in respect of establishments in Great Britain which had not begun production before the end of the year (which has not previously been included in the Census of Production reports for individual industries).

Symbols used:

- .. for not available
- for nil or negligible (less than half the final digit shown).

Where figures are rounded, e.g., given to the nearest £ thousand, there may be apparent slight discrepancies between the sums of constituent items and the totals shown. In some cases, figures have been combined with others of a similar nature where publication of separate details might disclose information relating to an individual undertaking.

Industry summary

Estimates for the industry as a whole

TABLE 1

	United Kingdom			Scotland 1954 (a)	Wales 1954 (a)
	1948	1951	1954		
Gross output (production)	£ million	£ million	£ million	£ million	£ million
Net output	15.6	18.0	20.8	..	..
Total stocks and work in progress	8.3	8.9	11.0	..	..
At beginning of year	4.2	3.3	4.3	..	..
Change during year	+ 0.4	+ 1.1	+ 0.4	..	..
Capital expenditure less disposals (b)	0.3	0.3	0.6	..	..
Wages and salaries	4.6	4.9	6.1	..	..
Total employment (including working proprietors)	Thousands	Thousands	Thousands	Thousands	Thousands
	17.0	15.2	15.5	..	..

(a) Owing to the risk of disclosure of information relating to individual firms particulars for Scotland and Wales cannot be given separately.

(b) Capital expenditure on new building work, plant, machinery and vehicles (including (except in 1948) that incurred in Great Britain for establishments not yet in production), less amounts received for plant, machinery and vehicles disposed of.

Summary of returns received

TABLE 2

	Unit	Great Britain 1948	United Kingdom	
			1951	1954
FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS				
Number of establishments	No.	152	148	144
Total value of sales and work done	£'000	15,094	17,305	20,129
Products on hand for sale	..	1,912	1,590	2,036
and work in progress	..	..	..	..
Gross output (production) (a)	..	+ 156	+ 383	+ 280
	..	15,206	17,688	20,410
Purchases of materials and fuel	..	7,119	9,292	9,135
Stocks of materials and fuel	..	2,151	1,691	2,170
Cost of materials and fuel used	..	+ 185	+ 742	+ 151
Payment for work done on materials given out	..	6,935	8,551	8,984
Payment for transport (b)	..	207	179	360
	..	44	227	253
Net output	..	8,064	8,732	10,812
Average number of employees	No.	13,564	12,092	11,887
Total employment (d)	..	2,952 (c)	2,878	3,372
Net output per person employed (d)	£	16,532	14,978	15,262
	..	488	583	708
Wages and salaries	£'000	3,193	3,336	4,144
	..	1,273	1,465	1,882
Capital expenditure	..	..	..	..
New building work (e)	..	101	68	209
Plant and machinery	..	224	203	359
	..	48	4	31
Vehicles	..	48	84	109
	..	9	20	33
FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS				
Number of returns	No.	67	41 (f)	32
Total employment, including working proprietors	..	399	245 (f)	191

(a) For the year 1948 gross output excludes payments for transport services outwards on finished goods sold. For subsequent years gross output includes payments to other firms and undertakings and to firms' own separate transport organisations for transport services.

(b) Payments to other firms and undertakings and to firms' own separate transport organisations. For the year 1948 payments cover only transport outwards of finished goods sold. For subsequent years they cover payments for transport of both finished goods sold and materials and fuel purchased.

(c) Number in week ended September 25, 1948.

(d) Excluding outworkers and including working proprietors.

(e) Excluding expenditure for establishments not yet in production.

(f) Excluding Northern Ireland. No information about small firms was collected in Northern Ireland for 1951.

ELECTRIC LIGHTING ACCESSORIES AND FITTINGS

Analysis by size, 1954

Larger establishments in the United Kingdom

TABLE 3

Average number employed (a)	Estab-lish-ments	Gross output	Net output	Employees		Wages and salaries		Capital expenditure (b)	Net output per person employed (a)
				Operatives	Others	Operatives	Others		
	Number	£' 000	£' 000	Number	Number	£' 000	£' 000	£' 000	£
11 - 24	26	584	325	350	104	123	59	14	715
25 - 49	45	2,278	1,174	1,320	367	477	219	98	695
50 - 99	37	3,719	1,929	2,075	470	681	312	90	758
100 - 199	17	3,176	1,539	1,875	489	618	268	194	651
200 - 299	8	2,310	1,209	1,546	379	483	185	37	628
300 - 499	5	2,408	1,348	1,252	591	535	320	56	731
500 and over	6	5,935	3,289	3,469	972	1,228	519	190	741
Total	144	20,410	10,812	11,887	3,372	4,144	1,882	678	708

(a) Excluding outworkers and including working proprietors.

(b) Capital expenditure on new building work and on acquisition of plant, machinery and vehicles. Excluding expenditure for establishments not yet in production.

TABLE 4 - Analysis according to specialisation within the industry, 1954
Larger establishments in the United Kingdom

No specialisation within this industry was distinguished.

Sales of the principal products of the industry, including sales of these products by establishments classified to other industries

Larger establishments in the United Kingdom

TABLE 5

	1951	1954	
	Value	Value	Entries
	£' 000	£' 000	Number
Electric lighting fittings and accessories (a)			
Auxiliary gear for discharge lighting	2,023	2,793	25
Other fittings, not elsewhere specified			
Domestic, decorative and commercial	3,610	3,841	91
Industrial, including flood-lighting and shop window lighting	5,241	5,660	89
Street lighting	904	1,363	20
Wiring accessories, up to 250 volts, 30 amps. (e.g. lampholders, ceiling roses, wall plugs and sockets, switches) not elsewhere specified			
Mainly of brass (a)	1,402	1,240	27
Mainly of plastics material	5,643	8,629	80
Other (porcelain, etc.)	2,227	2,904	37
Unclassified	1,470	475	7
House wiring kits, complete	395	238(b)	..
Electric bell apparatus, not telegraphic or telephonic	1	457	20
Waste products, other than scrap metals	99	2	11
Repair and maintenance work for customers (c)		131	11
Total	23,015	27,732	..
Sales in other industries (see Table 6)	9,449	11,676	..
Principal products of this industry sold by establishments in the industry	13,565	16,056	126

(a) Excluding the output of brass accessories and fittings by finished brass manufacturers for which see the Brass Manufactures Industry (Volume 5, Industry F).

(b) So far as recorded separately.

(c) Amount charged.

(84373)

ELECTRIC LIGHTING ACCESSORIES AND FITTINGS

Sales of principal products of the industry by establishments classified to other industries

Larger establishments in the United Kingdom

TABLE 6

	1954		Principal industries in which produced (a)
	Value	Entries	
	£' 000	Number	
Electric lighting fittings and accessories			
Auxiliary gear for discharge lighting	1,849	11	4K, 4M
Other fittings, not elsewhere specified			
Domestic, decorative and commercial	604	28	4K, 4M, 11I
Industrial, including flood-lighting and shop window lighting	1,618	39	4K, 4M, 12A
Street lighting	939	7	4K, 4M
Wiring accessories, up to 250 volts, 30 amps (e.g. lampholders, ceiling roses, wall plugs and sockets, switches), not elsewhere specified			
Mainly of brass	304	11	4K, 4L
Mainly of plastics material	4,015	48	4K, 4M, 11I
Other (porcelain, etc.)	1,463	17	4K, 4L, 4M
Unclassified	471	6	3C, 4C, 4K
House wiring kits, complete (b)	238	..	4K
Electric bell apparatus, not telegraphic or telephonic	176	13	4K, 4L, 4M
Total	11,676	..	

(a) The volume number and industry references given are to the industries shown in the list at the back of this report.

(b) So far as recorded separately.

Sales in the industry of other than principal products
Larger establishments in the United Kingdom

TABLE 7

	1954
	Value
	£' 000
Radio, telecommunication, and electronic apparatus and parts	421
Vacuum tubes	213
Switchgear and switchboards (other than telegraph or telephone) complete and parts	88
Cable jointing materials and accessories (other than tape, cloth and other insulating materials)	44
Cooking apparatus and appliances, electric (including parts and accessories)	273
Heating appliances, electric (including parts and accessories)	113
Irons, electric	34
Electrical equipment for aircraft	258
Joint boxes	61
Portable (mechanical) appliances, electrically operated	78
Other electrical goods and apparatus	848
Hardware, hollow-ware, metal furniture and sheet metal goods	225
Mechanical engineering goods	359
Plastics goods and fancy articles	269
Other goods	355
Scrap metals sold	267
Work done	167
Total	4,073

(84373)

ELECTRIC LIGHTING ACCESSORIES AND FITTINGS

TABLE 8 - Total make of intermediate products

Larger establishments in the United Kingdom

This table is not applicable to the industry.

Purchases of materials and fuel, 1954

Larger establishments in the United Kingdom

TABLE 9

	Quantity		Cost	
	Th.cwt.	£'000	Th.cwt.	£'000
Materials				
Iron and steel				
Wrought tubes and fittings for wrought tubes	1.2	6	..	4
Wire and wire manufactures, including wire cables and ropes	0.5	2	..	1
Drop-forgings and iron and steel scrap	2.5	5	..	2
Other iron and ferro-alloys				
Castings in the rough or machined except machined castings elsewhere specified	23.8	109	..	29
Other iron, and other ferro-alloys	1.9	5	..	1
Other steel (alloy and non-alloy)				
Ingots, blooms, billets and slabs, and sheet and tinplate bars	5.1	11	..	..
Angles, shapes, sections, bars, rods (including wire rods) and girders, beams and joists (not fabricated)	17.2	56	..	8
Castings and forgings, except drop-forgings in the rough or machined, except machined castings and forgings elsewhere specified	2.2	7	..	1
Tin-, terne- and black-plates and tinned and tern-sheets	18.6	47	..	7
Electrical quality sheets	9.0	37	..	..
Other plates and sheets 1/8in. thick and over and hoop and strip (including tape) of all thicknesses	2.9	9	..	24
Other plates and sheet under 1/8in. thick	98.7	254	..	83
Springs, laminated and other types	..	9	..	..
Aluminium and aluminium alloys				
Plates, sheets, strip, circles, blanks and foil	3.5	57	..	18
Castings and forgings, rough dressed	8.1	187	..	57
Other descriptions (except finished parts, wire and scrap)	3.6	37	..	12
Brass and other alloys of copper, including nickel silver and cupro-nickel				
Plates, sheets and strip	15.7	236	..	95
Other descriptions (except finished parts, wire and scrap)	19.1	295	..	396
Copper				
Plates, sheets and strip	4.4	74	..	10
Wire rods, wire, cables and flexibles, uninsulated, and other descriptions, except finished parts and scrap	1.8	30	..	41
Lead and alloys of lead in all forms (except solder, finished parts and scrap), and tin in all forms (except finished parts and scrap)				
	..	2		

ELECTRIC LIGHTING ACCESSORIES AND FITTINGS

TABLE 9 (contd.)

	Quantity		Cost	
	Th.cwt.	£'000	Th.cwt.	£'000
Materials (contd.)				
Zinc and alloys of zinc, except brass, in all forms (except finished parts and scrap)	13.8	44	..	..
Soft solder	0.3	6	..	..
Non-ferrous metal scrap and uninsulated wire, cables and flexibles of non-ferrous metals except copper	0.4	3	..	2
Bitumen and bitumastic compound	1.3	3	..	1
Glass				
Blown	3.1	38	..	52
Other descriptions	6.8	67	..	153
Paint, enamel and varnish, including emulsion paint, cellulose-based paints and lacquers				
	Th.gal.	112	..	15
Mica, and paper and paperboard, including press-board and paper yarn, tubes, etc. (excluding packaging material)				
	Th.cwt.	10	..	63
Plastics materials				
Synthetic resins and moulding powders	53.3	405	..	75
Sheet, foil, rods, tubes, film, etc. including laminated sheets	1.3	41	..	74
Plating compounds	0.5	4	..	19
Porcelain and other ceramics in all forms	3.5	47	..	195
Rubber, including hard rubber, balata, gutta percha and synthetic rubber in all forms including finished parts	0.8	11	..	24
Timber (excluding timber for packing, i.e. for making into cases, drums, etc. or for repairing returnable cases, and veneers)				
	Th.cu.ft.	18	..	11
Hardwood and softwood	20	11	..	1
Plywood including block-board, batten-board and laminboard	..	1	..	..
Yarn, thread, tape and cloth, not oiled or otherwise coated or impregnated with insulating materials	1b.	2	..	..
Electrical insulating materials not elsewhere specified	..	32	..	..
Insulated wires, cables, flexibles, strips and strands	..	167	..	..
Purchased components for incorporation in products				
Ball and roller bearings and parts	..	3	..	..
Batteries and accumulators	..	13	..	..
Fractional horse-power electric motors, i.e. less than one horse-power	Number 3,845	9	..	3
Loudspeakers and microphones, and magnets permanent	..	1	..	..
Measuring and control instruments, including ammeters, voltmeters, thermostats, etc.	..	7	..	..
Electrical machinery not included above, i.e. generators, motors (other than fractional horse-power motors), converting machinery, static rectifiers, transformers for lighting, heating and power, starting control and switch-gear, etc. and parts thereof	..	381	..	..
Other purchased electrical components including valves, electronic	..	143	..	..

TABLE 9 (contd.)

	Quantity	Cost
		£'000
Materials (contd.)		
Other finished parts not elsewhere specified		
Wholly or mainly of plastics materials	..	517
Other, except those of rubber and glass	..	511
Lubricating oils and greases, including cutting oils and emulsions, and insulating oils	Th.gal. 36	7
Replacement parts for plant, machinery and vehicles, and accessories bought as replacement	..	112
Consumable tools, including engineers' small tools, jigs, fixtures and measuring instruments, bought as replacement	..	97
Packing materials	Th.cwt.	
Timber and wooden crates, packing cases, etc.	..	63
Paper, including transparent cellulose film, and paperboard and containers made from these materials, including fibreboard packing cases	..	205
Other packing materials including jute piece goods, hessian and jute sacks	..	27
All other purchased materials	Th.tons	2,748
Fuel and electricity		
Coal	3.2	14
Coke	..	7
	3.3	19
	..	7
	Th.gal.	
Liquid fuel (including creosote/pitch mixtures)		
For use in internal combustion engines	131	27
Motor spirit (petrol) for use in road vehicles and deriv. fuel	..	6
Other	-	-
For burning in furnaces, boilers, kilns, etc.	581	24
	Th.therms	
Gas purchased		
From Gas Boards and from other sources, including other departments of the same firms	1,215	65
	..	8
	Th.kWh.	
Electricity purchased		
From Electricity Boards and from other sources, including other departments of the same firms	20,212	134
All other purchased fuel		9
Total cost		9,135

Average number of employees and wages, salaries and superannuation payments (a)

Larger establishments in the United Kingdom

TABLE 10

	1951	1954
	Number	Number
Average number of employees		
Operatives	12,092	11,887
Administrative, technical and clerical employees	2,878	3,372
Total	14,970	15,259
	£'000	£'000
Wages and salaries paid to		
Operatives	3,336	4,144
Administrative, technical and clerical employees	1,465	1,882
Total	4,801	6,026
	£	£
Wages and salaries per head		
Operatives	276	349
Administrative, technical and clerical employees	509	558
		£'000
Superannuation and other pension funds for employees and dependents		
Employers' contributions	..	64
		Number
Employees covered	..	2,823
		£'000
Pension, etc. payments to former employees and dependents	..	7

(a) The following persons, not included above, were also employed by larger establishments in this industry ('other workers' includes, for example, employees engaged in merchanting). Payments to outworkers are also shown:

	1951	1954
	Number	Number
Canteen workers		
Male	1	1
Female	112	94
Total	113	95
Other workers		
Male	171	30
Female	25	25
Total	196	55
Total excluded employees	309	150
Outworkers	225	230
	£'000	£'000
Payment to outworkers	16	21

Employment in a specified week (a)

Larger establishments in the United Kingdom

TABLE 11

	1951			1954		
	Males	Females	Total	Males	Females	Total
Working proprietors	7	1	8	3	-	3
Operatives	5,700	6,116	11,816	6,124	6,168	12,292
Administrative, technical and clerical employees	1,673	1,226	2,899	2,028	1,368	3,396
Total employees	7,373	7,342	14,715	8,152	7,536	15,688

(a) Week ended September 22, 1951, or October 30, 1954.

LIST OF INDUSTRY REPORTS

VOLUME 1

- A. Coal Mines
- B. Non-Metalliferous Mines and Quarries (other than Coal, Salt and Slate)
- C. Salt Mines, Brine Pits and Salt Works
- D. Slate Quarries and Mines
- E. Metalliferous Mines and Quarries
- F. Brick and Fireclay
- G. China and Earthenware
- H. Glass Containers
- I. Glass (other than Containers)
- J. Cement
- K. Abrasives
- L. Building Materials
- M. Manufactured Fuel

VOLUME 2

- A. Coke Ovens and By-products
- B. Dyes and Dyestuffs
- C. Fertiliser, Disinfectant, Insecticide and Allied Industries
- D. Coal Tar Products
- E. Chemicals (General)
- F. Drugs and Pharmaceutical Preparations
- G. Toilet Preparations and Perfumery
- H. Explosives and Fireworks
- I. Paint and Varnish
- J. Soap, Candles and Glycerine
- K. Polishes
- L. Ink
- M. Match
- N. Mineral Oil Refining
- O. Oils and Greases
- P. Seed Crushing and Oil Refining
- Q. Glue, Gum, Paste and Allied Industries
- R. Plastics Materials

VOLUME 3

- A. Blast Furnaces
- B. Iron and Steel (Melting and Rolling)
- C. Iron Foundries
- D. Steel Sheets
- E. Tinplate
- F. Wrought Iron and Steel Tubes
- G. Non-Ferrous Metals (Smelting, Rolling, etc.)
- H. Scrap Metal Processing
- I. Motor Vehicles and Cycles (Manufacturing)
- J. Motor Vehicles and Cycles (Repairing)
- K. Aircraft Manufacture and Repair
- L. Railway Locomotive Shops and Locomotive Manufacturing
- M. Railway Carriages and Wagons and Trams
- N. Carts, Perambulators, etc.

VOLUME 4

- A. Shipbuilding and Ship Repairing
- B. Marine Engineering
- C. Machine Tools
- D. Textile Machinery and Accessories
- E. Small Arms
- F. Constructional Engineering
- G. Mechanical Handling Equipment

VOLUME 4 (contd.)

- H. Printing and Bookbinding Machinery
- I. Mechanical Engineering (General)
- J. Mechanical Engineering (Repairing)
- K. Electrical Engineering (General)
- L. Electric Wires and Cables
- M. Radio and Telecommunications
- N. Batteries and Accumulators
- O. Electric Lighting Accessories and Fittings

VOLUME 5

- A. Tool and Implement
- B. Cutlery
- C. Chain, Nail, Screw and Miscellaneous Forgings
- D. Wire and Wire Manufactures
- E. Hardware, Hollow-ware, Metal Furniture and Sheet Metal
- F. Brass Manufactures
- G. Needles, Pins, Fish Hooks and Metal Smallwares
- H. Scientific, Surgical and Photographic Instruments, etc.
- I. Watch and Clock
- J. Jewellery and Plate
- K. Precious Metals Refining
- L. Musical Instruments

VOLUME 6

- A. Cotton Spinning and Doubling
- B. Cotton Weaving
- C. Woollen and Worsted
- D. Rayon, Nylon, etc. Production
- E. Rayon, Nylon, etc. Weaving, and Silk
- F. Flax Processing
- G. Linen and Soft Hemp
- H. Jute
- I. Rope, Twine and Net
- J. Hosiery and Other Knitted Goods
- K. Lace
- L. Carpets
- M. Narrow Fabrics
- N. Canvas Goods and Sacks
- O. Textile Converting
- P. Made-up Household Textiles
- Q. Textile Finishing
- R. Textile Packing

VOLUME 7

- A. Asbestos
- B. Flock and Rag
- C. Hair, Fibre and Kindred Industries
- D. Leather (Tanning and Dressing)
- E. Fellmongery
- F. Leather Goods
- G. Fur
- H. Tailoring, Dressmaking, etc.
- I. Hats, Caps and Millinery
- J. Glove
- K. Umbrella and Walking Stick
- L. Boot and Shoe

VOLUME 8

- A. Grain Milling
- B. Bread and Flour Confectionery
- C. Biscuit
- D. Bacon Curing and Sausage

VOLUME 8 (contd.)

- E. Preserved Meat
- F. Milk Products
- G. Ice Cream
- H. Sugar and Glucose
- I. Cocoa, Chocolate and Sugar Confectionery
- J. Preserved Fruit and Vegetables

VOLUME 9

- A. Margarine
- B. Fish Curing
- C. Cattle, Dog and Poultry Foods
- D. Vinegar and Other Condiments
- E. Starch
- F. Ice
- G. Miscellaneous Preserved Foods
- H. Brewing and Malting
- I. Wholesale Bottling
- J. Spirit Distilling
- K. Spirit Rectifying and Compounding
- L. Soft Drinks, British Wines and Cider
- M. Tobacco

VOLUME 10

- A. Timber
- B. Furniture and Upholstery
- C. Soft Furnishings
- D. Shop and Office Fitting
- E. Wooden Containers and Baskets
- F. Paper and Board
- G. Wallpaper
- H. Cardboard Box, Carton and Fibre-board Packing Case
- I. Manufactured Stationery, Paper Bag and Kindred Industries
- J. Newspaper and Periodical Printing and Publishing
- K. Printing and Publishing, Bookbinding, Engraving, etc.

VOLUME 11

- A. Rubber
- B. Linoleum, Leathercloth and Allied Industries
- C. Brushes and Brooms
- D. Toys and Games
- E. Sports Requisites
- F. Miscellaneous Stationers' Goods
- G. Cinematograph Film Production
- H. Cinematograph Film Printing
- I. Plastic Goods and Fancy Articles
- J. Incandescent Mantles

VOLUME 12

- A. Building and Contracting
- B. Local Authorities (Building and Civil Engineering)
- C. Railways (Civil Engineering)
- D. Tramway, Trolley Bus and Omnibus Undertakings (Civil Engineering)
- E. Canal, Dock and Harbour Undertakings (Civil Engineering)
- F. Gas Supply Industry
- G. Electricity Supply Industry
- H. Water Undertakings

4919/2/Patt

Crown copyright reserved

Printed and published by
HER MAJESTY'S STATIONERY OFFICE

To be purchased from
York House, Kingsway, London W.C.2
423 Oxford Street, London W.1
13A Castle Street, Edinburgh 2
109 St Mary Street, Cardiff
39 King Street, Manchester 2
Tower Lane, Bristol 1
2 Edmund Street, Birmingham 3
80 Chichester Street, Belfast
or through any bookseller

Printed in Great Britain

VS

BRITISH LIBRARY
OF POLITICAL AND ECONOMIC SCIENCE
(London School of Economics)

STAFF Date issued	RESEARCH STUDENTS Date due for return
LIBRARY	

23 MAR 1961

