

SECTION I.

CLASS 1.

MINING, QUARRYING, METALLURGY, AND MINERAL PRODUCTS.

South Court, Eastern Annex.

- 1 AARON, E. & W. *Liverpool*.—Halkyn hydraulic limestone, Halkyn Chirt stone, and Holywell Roman cement stone.
- 2 ABERDARE COAL CO. *Cardiff, Glamorganshire*.—Merthyr steam coal from 4 feet and 9 feet seam.
- 3 ABERDARE IRON CO. *Aberdare, Glamorganshire*.—Coal. Iron ore, pigs, refined metal, and railway iron.
- 4 ABERDARE STEAM FUEL CO. *London, Cardiff, and Aberdare*.—Patent steam fuel.
- 5 ADAIR, J. G. *Bellgrove, Ballybrittas*.—Coal and mineral productions of Co. Donegal.
- 6 AYTOUN, R. 3, *Fettes-row, Edinburgh*.—Safety cage for miners, and hoist.
- 7 BANKART, F. & SONS, *Briton Ferry, Glamorganshire*.—Copper, and ores.
- 8 BARBER, WALKER & CO. *Eastwood, Nottinghamshire*.—Coals.
- 9 BARKER, R. *Wood Bank, Egremont, Cumberland*.—Hematite iron ores, and spar.
- 10 BARKER, RAWSON, & CO. *Sheffield*.—Leads: white, red, and refined.
- 11 BARNES, T. A. *Whitby, Yorkshire*.—Grosmont ironstone, and pig iron, Whitby.
- 12 BARRINGER & CARTER, *Mansfield, Nottinghamshire*.—Fine red casting sand, from Mansfield.
- 13 BARROW, B. *Ryde, Isle of Wight*.—Mineral products of the Isle of Wight.
- 14 BARROW, R. *Staveley Works, near Chesterfield*.—Coal, ironstone, and iron.
- 15 BATSON, A. *Ramsbury, Wilts*.—Devonshire madreporine inlaid table.
- 16 BAYLY, J. *Plymouth*.—Ores of copper, tin, and lead.
- 17 BEADON, W. *Otterhead, Honiton, Devon*.—Siliceous sands for stuccoing, plastering, &c. Mineral black, natural pigment. Fine clays, iron ores, &c.
- 18 BELL BROS. *Newcastle-on-Tyne*.—Aluminium and its alloys. Pig iron and iron ores from Cleveland.
- 19 BENNETT, T. 11, *Woodbridge-st. Clerkenwell*.—Leaf gold.
- 20 BENNETTS, W. *Camborne*.—Safety skip, for passing men, &c. from mines.
- 21 BENTHOLL, H. 14, *Chatham-pl. Blackfriars*.—Porphyry.
- 22 BENTLEY, J. F. *Stamford*.—Designs in stone from Stamford, &c.
- 23 BICKFORD, SMITH, & CO. *Tuckingmill, Cornwall*.—Safety fuse for blasting.
- 24 BIDDULPH, J. & CO. *Swansea*.—Minerals, iron-ore, coal.
- 25 BIDEFORD ANTHRACITE MINING CO, *Bideford, Devon*.—Mineral black paint and culm.
- 26 BIRD, E. *Matlock, Bath*.—Obelisk, paper-weights in black marble, &c.
- 27 BIRD, W. & CO. 2, *Laurence Pountney-hill, E.C.*—Iron, steel, and tin plates.
- 28 BIRLEY, S. *Ashford, Derbyshire*.—Inlaid marble table, with arabesques, &c.
- 29 BLAENAVON IRON AND COAL CO. *Monmouthshire, and London*.—Iron bars, weldless tyres, girders, &c.
- 30 BLAENCLYDACH COAL CO. *Neath*.—Coal.
- 31 BOLCKOW & VAUGHAN, *Middlebro', Tees*.—Coal, coke, ironstone, pig-iron, &c.
- 32 BOUNDY, T. *Swansea*.—Arsenic.
- 33 BOWLING IRON CO. *near Bradford, Yorks, and London*.—Boiler plates, tyres, bars, angles, &c.
- 34 BOXALL, J. J. *Pulborough, Sussex*.—Green Sand stone.
- 35 BRADLEY, C. L. *Richmond, Yorks*.—Copper and lead ore.
- 36 BREWER, R. *Corsham, Chippenham*.—Stone vase and cubes of Bath stone.
- 37 BRIGHT, S. & Co. *Buxton*.—Black marble vases and Mosaic work.
- 38 BRISTOL AND FOREST OF DEAN CO. *Princess Royal Colliery, near Lydney*.—Coal, from Yorkley and Whittington seams.
- 39 BROWN, J. & CO. *Sheffield*.—Rolled iron armour plates, and steel rails.
- 40 BROWN & JEFFCOCK, *Barnsley*.—Coals and ironstones from S. Yorkshire field, and geological sections.
- 41 BROWN & RENNIE, *Kilsyth, by Glasgow*.—Coal and coke.
- 42 BROWNE, W. *St. Austell, Cornwall*.—China clay, china stone, and iron ore.
- 43 BRUNTON, J. D. *Barge-yard, Bucklersbury*.—Condensed peat and peat charcoal.
- 44 BRUNTON, W. & CO. *Penhellick Safety Fuse Works, near Camborne*.—Fuse for blasting.
- 45 BUDD, J. P. *Swansea*.—Iron, and tin plates.
- 46 BULL, G., D.D. *Redhall, Co. Antrim*.—Large quartz crystal, or Irish diamond.
- 47 BUTLIN, T. & CO. *East End Iron Works, Wellingborough*.—Iron and iron ores.
- 48 BUTTERLEY CO. *Butterley Iron Works, Alfreton*.—Section of coal pit. Armour plates, deck beams, rolled girders, joists, &c.
- 49 BWLCH Y GROES SLATE CO. *Llanberis, Carnarvon*.—Roofing slate.
- 50 BYERS, J. & SON *Stockton-on-Tees, Durham*.—Lead ores, lead, silver, litharge, and lead manufactures.

- 51 CAITHNESS, EARL OF, 17, *Hill-st.*—Caithness flags.
- 52 CALOW, J. T. *Staveley, Derbyshire.*—Safety apparatus for shafts of mines, &c.
- 53 CAMPBELL, BROS. *William-st. Blackfriars.*—Pig and bar iron from Calder and Govan works.
- 54 CANNAMANNING CHINA CLAY CO. *Newton Abbot.*—China, pipe, and paper clays.
- 55 CASE & MORRIS, *Ince, Wigan.*—Section of actual strata of Rose Bridge and Ince Hall Collieries, coal, &c.
- 56 CHAFFER, T. *Burnley, Lancashire.*—Flag and paving stones.
- 57 CHAMBERS, J. *Alfreton.*—Coal.
- 58 CHEESEWRIGHT GRANITE CO. 6, *Cannon-st. Cornwall.*—Design by John Bell for memorial of Exhibition, 1851. (*Nave.*)
- 59 CHILD, W. J. & T. *Hull.*—Millstones.
- 60 CLAY CROSS CO. *Clay Cross, Chesterfield.*—Coal, lime, limestone, ironstone, and pig iron.
- 61 COAL OWNERS OF NORTHUMBERLAND AND DURHAM, *Newcastle-on-Tyne.*—Map and section of coal field.
- 62 COCHRANE & CO. *Woodside, Dudley.*—Iron pipes and pig iron.
- 64 COLLEY, G. 8, *Upper Dorset-st. Pimlico.*—Vase in free stone.
- 65 CONNORRE MINING CO. *Ovoca, Ireland.*—Minerals and ores.
- 66 COPELAND, G. A. *Carwythenack House, Constantine.*—Waterproof blasting cartridges.
- 67 CORBETT, W. F. *St. Charles-st. Birmingham.*—Apparatus to prevent overwinding at pits.
- 68 CORBETT, J. *Bromsgrove, Worcestershire.*—Table and provision salt.
- 69 COURAGE, A. & CO. *Bagillt, Flintshire.*—Lead, sanitary pipes, zinc, &c.
- 70 COWPEN COAL CO. *Blyth.*—Block of Cowpen Hartley steam coal.
- 71 COX, BROS. & CO. *Derby.*—Lead, shot, plate of Derbyshire silver, &c.
- 72 CRAIG, G. & SON, *Pavement Works, Thurso, Caithness.*—Caithness flags for tables, shelving, and pavement.
- 73 CRAWLEY, C. E. 17, *Gracechurch-st.*—Miners' safety-lamp.
- 74 CRAWLEY, G. B. *Neath.*—Coal.
- 75 CRAWSHAY, H. & CO. *Lightmoor Collieries, Cinderford.*—Rock-Vein coal.
- 76 CRAWSHAY, H. & CO. *Abbot's-wood Mines, Cinderford.*—Black Brush iron ore.
- 77 CROWN PRESERVED COAL CO. 62, *Moorgate-st.*—Preserved coal.
- 78 CWMORTHIN SLATE CO. *Merionethshire.*—Slates and slabs.
- 79 DABBS, J. *Stamford.*—Freestone, from Ketton quarries.
- 80 DAGLISH, J. *Hetton Collieries, Durham.*—Model of ventilating furnace. Self-registering water-gauge.
- 81 DAVIS, D. *Bute-cres. Cardiff.*—Sample of Merthyr steam coals.
- 82 DAVIS, J. *Ulverstone.*—Iron pyrites from Millom.
- 83 DAWES, W. H. & G. *Denby Iron Works, Derby.*—Coal and ironstone.
- 84 DENBY, W. 3, *Denby-pl. Sidmouth.*—Mosaic table composed of silicious pebbles found at Sidmouth.
- 85 DENMAN, LORD, *Stoney, Middleton.*—Grit stone from the district.
- 86 DEVON AND COURTENAY CLAY CO. *Newton Abbot.*—Pipe and potters' clay.
- 87 DEVON GREAT CONSOLS, MINE, *Tavistock.*—Copper ores.
- 88 DEVONSHIRE, DUKE OF.—Slate from Burlington quarries, Lancashire.
- 89 DOVE, D. *Nutshell Quarries, Glasgow.*—Grindstones.
- 90 DOWLAIS IRON CO. *Dowlais, Merthyr Tydvil.*—Samples of manufactured iron.
- 91 DUNCAN, FALCONER, & WHITTON, *Carmyllie, by Arbroath.*—Step and pavement slabs.
- 92 DYBALL, T. *Kirton Lindsay.*—Iron ore, (for Sir Culling Eardley.)
- 93 EAST CORNWALL ARSENIC CO. 9, *Parade, Plymouth.*—Arsenical mundic and arsenic.
- 94 EASTWOOD & SONS, *Derby.*—Samples of iron.
- 95 EBBW VALE & PONTYPOOL COS. *Newport, Monmouthshire.*—Minerals; tin plates; iron manufactures.
- 97 EDWARDS, WOOD, & GREENWOOD, *Tame Valley Colliery, Tamworth.*—Iron pyrites and fire clay.
- 98 ELLAM, JONES, & CO. *Maskeaton Mills, Derby.*—Emery, and oxide of iron paint, made from the ore, expressly for iron-work.
- 99 ELLIS & EVERARD, *Markfield Granite Quarries, Leicestershire.*—Paving setts, macadamizing and building stones, &c.
- 100 EVANS & ASKIN, *Birmingham.*—Nickel, cobalt, and German silver.
- 101 FARNLEY IRON CO. *near Leeds.*—Coal, boiler-plate, tyres, fire-clay goods, &c.
- 102 FAYLE & CO. 31, *George-st. Hanover-sq.*—Blue clay for earthenware.
- 103 FINNIE, A. & SON, *Kilmarnock.*—Steam and house coal.
- 104 FIRTH, BARBER, & CO. *Oak's Colliery, Barnsley.*—Steam and house coal from Barnsley seam.
- 105 FITZGERALD, R. *Clare View, Tarbert, Co. Kerry.*—Peat.
- 106 FORSTER, G. B. *Cowpen Colliery, Blyth.*—Model of coal pit, with cages and apparatus.
- 107 FORSTER, R. *Gateshead.*—Grindstones.
- 108 FOWLER, W. & CO. *Sheepbridge Iron Works, Chesterfield.*—Coal and ironstone, of which armour-plate iron is made.
- 109 FRANKLIN, F. *Galway.*—Polished marble and frame.
- 110 FREEMAN, W. & J. *Millbank, Westminster.*—Granites and stones.
- 111 FRYAR, M. *School of Mines, Glasgow.*—Plans and drawings relating to mining.
- 112 GAMMIE, G. *Shotover House, Oxfordshire.*—Native Oxford ochre.
- 113 GARDNER, R. *Sansaw, Shrewsbury.*—Grimshill stone, copper ore, and barytes.
- 114 GARLAND, T. *Fairfield, Redruth.*—Arsenic.

CLASS 1.]

AND MINERAL PRODUCTS.

3

South Court, Eastern Annex.

- 115 GENERAL MINING CO. FOR IRELAND, *Dublin*.—Zinc ores, spelter, fire-clays, ochres from Tipperary.
- 116 GEOLOGICAL SURVEY OF THE UNITED KINGDOM, 28, *Jermyn-st.*—Published maps and sections, 1 inch and 6 inch scales.
- 117 GIBBS & CANNING, *Tamworth*.—Stoneware sewerage pipes, fire-bricks, &c.
- 118 GILBERTSON, W. & Co. *Swansea*.—Tin-plates, black plates, and taggers.
- 119 GILKES, WILSON, PEASE, & Co. *Mid-dlesbro'*.—Pig iron, test bars, and iron ores.
- 120 GODDARD, E. for E. BLAKE, *Newton Abbot*.—Pipe, potter's clay, &c.
- 121 GOLDSWORTHY, T. & SONS, *Hulme, Manchester*.—Whetstones, knife-cleaning machines, emery, &c.
- 122 GOVERNOR & CO. OF COPPER MINERS, *Cwm Avon Works, Glamorganshire*.—Coal, iron ores, and metals.
- 123 GOWANS, J. *Rochville, Merchiston-pk. Edinburgh*.—Boring machine, galvanic apparatus for blasting, and wedge.
- 124 GRAHAM, A. *Huddersfield*.—Building stones and hard-paving stones.
- 125 GRANVILLE, EARL, *Shelton, Staffordshire*.—Minerals and pig iron.
- 126 GRAY, J., M.D. *Glasgow*.—Modification of Davy's lamp.
- 127 GREAVES, J. W. *Port Madoc, North Wales*.—Roofing slates.
- 128 GREAVES & KIRSHAW, *Warwick, and Paddington*.—Hydraulic Lias lime and cement. Polished lias stone.
- 129 GREENWELL, G. C. *Radstock*.—Sections and specimens of Somersetshire coal-field.
- 130 GREENWELL, G. C. for WESTBURY IRON CO. *Wilts*.—Section of ironstone and furnace products.
- 131 GREGORY, J. R. 25, *Golden-sq. London*.—Minerals, fossils, and rocks; Devonian fossil fishes from Scotland.
- 132 HALIFAX CORPORATION, *Halifax, Yorks*.—Coal and products from Halifax.
- 133 HALL, J. & T. *Derby*.—Marble and spar ornaments, &c.
- 134 HALL, J. & Co. *Stourbridge*.—Fire clays, gas retorts, bricks, crucibles, &c.
- 135 HALLIDAY, T. C. *Greetham, Rutland*.—Clipham stone blocks.
- 136 HAMPSHIRE, J. K. *Whittington Collieries, Chesterfield*.—Safety apparatus, for raising and lowering persons in shafts.
- 137 HAMPSHIRE, M. & Co. *Spring-st. Huddersfield*.—Building stones.
- 138 HARPER & MOORES, *Lower Delph Clay Works, Stourbridge*.—Glass house pot clay, retorts, fire bricks, lumps, &c.
- 140 HARRIS, J. *Newton Abbot, Devonshire*.—Minerals from district.
- 141 HARRISON, AINSLIE, & Co. *Newland Furnace, Ulverston*.—Hematite and puddling ores, and Lorn pig iron.
- 142 HARRY, G. *Swansea*.—Copper, silver, iron, zinc, and nickel ores, and metals.
- 143 HAWKSWORTH, W. & Co. *Linlithgow*.—Cast steel, engraver's plate, steel rifle barrels, &c.
- 144 HEATH, EVANS, & Co. *Aberdare*.—Steam coal.
- 145 HEAVEN, W. H. *Lundy Island, Clovelly, North Devon*.—Specimens of district granite.
- 146 HEGINBOTHAM, P. & SON, *Shallcross Mills, Whaley Bridge, Stockport*.—Sulphate of barytes.
- 147 HENDERSON, G. W. M. *Fordell, Fifeshire*.—Carved block of sandstone.
- 148 HENDERSON, J., C.E. *Truro, Cornwall*.—Plan and section of a mine.
- 149 HENGSTBURY IRON MINING CO.—*Christchurch, Hants*.—Iron ore.
- 150 HENSON, R. 113A, *Strand*.—Ornaments in marble, and minerals.
- 151 HEWLETT, A. for the EARL OF CRAWFORD AND BALCARRES, *Wigan*.—Cannel gas coal.
- 152 HIGGS, S. & SON, *Penzance*.—Safety-lamp, tin and copper ores, and plans.
- 153 HILL, F. *Helston*.—Ores, metals, minerals, clay, marle, and stone from Helston district.
- 154 HIRD, DAWSON, & HARDY, *Low Moor Iron Works*.—Iron in various stages.
- 155 HOLLAND, S. & Co. *Port Madoc, Carnarvonshire*.—Roofing slates.
- 156 HOLMES, J. *Bolton Wood Quarries, Bradford*.—Monument (Open Court).
- 157 HOLROYD, J. & SONS, *Brighouse*.—Flag and building stones.
- 158 HOOPER & MOORE, *Stourbridge*.—Fire bricks, &c.
- 159 HOWARD, HON. J. 1, *Whitehall-place*.—Forest of Dean stone, coal, iron ore, clay, pottery.
- 160 HOWARD, RAVENHILL, & Co. *Rotherhithe, London*.—Bridge links, rolled entire.
- 162 HOWIE, J. *Hurtford Colliery, Kilmarnock, Scotland*.—Coal.
- 163 HUNT, J. *Porthleven, Helston, Cornwall*.—Model of ore-separator, portable gold-washer, and lead ores.
- 164 HYNAM, J. 7, *Princes-sq. Finsbury*.—Purified Fuller's earth for various manufactures; crucibles.
- 165 IBERSON, J. *Lockwood, Huddersfield*.—Building stones.
- 166 IRVING, G. V. *Newton, Lanarkshire N.B.*—Minerals from the Lead Hills.
- 168 JENKINS, W. H. & Co. *Truro, Cornwall*.—Ochres, fluor spar, &c. and glaze for porcelain.
- 169 JENNINGS & Co. *Swansea*.—Arsenical ore, arsenic unrefined, refined crystals, powdered and lump arsenic.
- 170 JENNINGS, W. *Victoria-st. Hereford*.—"Three Elms Quarry" stone.
- 171 JOHNSON, MATTHEY, & Co. 79, *Hatton-garden*.—Platinum, and preparations of precious metals.
- 172 JOHNSON, W. W. & R. & SONS, *Limehouse*.—Wetterstedt's metal for roofing, &c.
- 173 JONES & CHARLTON, *Duckinfield, Manchester*.—Self-extinguishing detector safety-lamp.
- 174 JONES, DANIEL, *Bradford-on-Avon, Wilts*.—Stone from Bath Farleigh Downs.
- 175 JONES, DAVID, *Hay, South Wales*.—Grey sandstone from Pontvain quarries.

- 176 JONES, DUNNING, & Co. *Middlesborough*.—Pig iron.
- 177 JONES, I. *Swansea*.—Flat chain.
- 178 JONES, W. *Port Tennant, Swansea*.—Fuel for steam purposes.
- 179 JORDAN, H. K. 2, *Clifton-wood-ter. Clifton*.—Minerals.
- 180 JORDAN, J. B. *Museum of Practical Geology, London, S.W.*—Models of mineral forms constructed of cardboard.
- 182 JORDAN, W. H. 14, *Langham-st. Regent-st.*—Model of pit frame and safety cage.
- 183 JULEFF, J. *Pednandrea, Redruth, Cornwall*.—Cornish crucibles, various.
- 184 KAY, W. *Hayhill, Ochilree, Ayrshire*.—Pair of curling-stones.
- 185 KAYE, G. *Ryecroft-edge, Huddersfield*.—Building stones.
- 186 KELL, R. & Co. *Newcastle-on-Tyne*.—Grindstones.
- 187 KING BROS. *Stourbridge Fire-Clay Works*.—Clay retorts, bricks, &c.
- 188 KINSMAN, Rev. R. B. *Tintagel, Camelford*.—Specimens of slates from Tintagel quarries, &c.
- 189 KIRKSTALL FORGE Co. *Leeds*.—Samples of manufactured malleable iron.
- 190 KNIGHT, F. WINN Esq. M.P. *Exmoor, South Molton*.—Iron ores.
- 191 KNOWLES, A. *Highbank, Pendlebury*.—Safety cage for coal mines.
- 192 LAMACRAFT, W. *Newton Abbot*.—Clays.
- 193 LAW LIFE ASSURANCE SOCIETY, *Fleet-st. E.C.*—Green and black marble, from Connemara, County Galway.
- 194 LAYCOCK, J. *Newcastle*.—Iron jointed prop used in working pillars in coal mines.
- 195 LEE MOOR PORCELAIN CLAY Co. *Plympton*.—Porcelain clay, architectural bricks, &c.
- 196 LEESWOOD GREEN COLLIERY Co. *near Mold*.—Section of Leeswood-green cannel coal.
- 197 LEETCH, J. 68, *Margaret-st. W.*—Preparation of fluor spar for polishing.
- 198 LEISS, F. 30, *Southampton-st. Strand*.—Articles made of mica.
- 199 LEVER, ELLIS, *West Gorton Works, Manchester*.—Flexible tubing, fly-doors, and brattice.
- 200 LEVICK & SIMPSON, *Newport*.—Specimens of rails, bars, and cold blast pig-iron.
- 201 LILLESHELL Co. *Shifnal, Shropshire*.—Minerals, castings, malleable specimens.
- 202 LIVINGSTONE, A. S. *Llanely, Carmarthenshire*.—Patent fuel.
- 203 LIZARD SERPENTINE Co. 20, *Surrey-st. Strand*.—Sundry works manufactured from serpentine.
- 204 LLANGOLLEN SLAB & SLATE Co. 4, *South Wharf-rd. Paddington*.—Enamelled slate work; large slate slab.
- 205 LLETTY SHENKIN COAL Co. *Cardiff*.—Smokeless Welsh steam coal.
- 206 LOMAS, J. & SONS, *Marble Works, Bakewell, Derbyshire*.—Polished Derbyshire marble.
- 207 LONDONDERRY, MARCHIONESS OF, *Seaham Hall*.—Pensher sand stone. A model of Seaham harbour and town.
- 209 LOWES & ROBINSON, *Stanhope, Darlington*.—Minerals. Section of Weardale strata, by Robinson & Son.
- 210 LOWRY, J. W. 45, *Robert-st. Hampstead-rd. N.W.*—Engravings of fossils for the Geological Survey of United Kingdom.
- 211 LUCAS & BARRATT, *Stockton-on-Tees*.—Pig-iron.
- 212 LUMBY, J. *Stamford*.—Ironstone pyrites-coal fire, and terra cotta clay.
- 213 LUND HILL COAL Co. *Barnsley*.—Barnsley steam and house coal.
- 214 MACDONALD, A. *Aberdeen*.—Specimens of granite used in buildings, decorations, memorials, and general purposes.
- 215 MAGNUS, L. S. 3, *Adelaide-pl. London-bridge*.—Coals and products, and iron ores.
- 216 MARGAM TIN PLATE Co. *Taibach, Glamorgan*.—Tin and terne plates, sheet, bar, and rod iron.
- 217 MARLBOROUGH, DUKE OF, *Blenheim Palace, Woodstock*.—Iron ore from Fawler mines, Charlbury, Oxfordshire.
- 218 MARSHALL, E. S. 31, *John-st. Tottenham-ct.-rd.*—Gold and silver leaf.
- 219 MARTIN, E. & SON, *St. Austell*.—China clay, and China stone.
- 220 MARTIN, R. *Higher Blowing House, St. Austell*.—China clay, and stone.
- 221 MATTHEWS, J. *Royston*.—Coprolites.
- 222 M'CALL, R. *near Limerick*.—Magnetic iron ore.
- 223 MEESON & Co. *Grays, Essex*.—Products of Grays chalk pits.
- 224 MEIK, T. *Sunderland*.—Model of the mode of shipping coals.
- 225 MERSEY STEEL AND IRON Co. *Liverpool*.—Crank shaft and forgings.
- 226 MICHELL, R. R. & Co. *Marazion, Cornwall*.—Model of tin-smelting furnace. Moulds, tools, kettles, &c.
- 227 MICHELL, S. *St. Austell, Cornwall*.—Porcelain clay, washed and unwashed.
- 228 MICKLETHWAIT, R. *Ardley House, Barnsley, Yorkshire*.—Grindstones.
- 229 MITCHELL, W. B. 16, *Broom Hill, Sheffield*.—Minerals and products of South Yorkshire.
- 230 MITCHELL, W. B. *Sheffield*.—Ores and minerals of the High Peak, Derbyshire.
- 231 MONA MINE Co. *Amlwch, Anglesey*.—Produce of copper mining and smelting.
- 232 MONK BRIDGE IRON Co. *Leeds*.—Combined cast-steel and iron tyres, minerals, &c.
- 233 MONTEIRO, L. A. 51, *Manchester-st. W.*—Stalagmite.
- 234 MOORE & MANBY, *Billiter-sq. London*.—Iron for engineers, &c.
- 235 MORCOM, J. *St. Austell, Cornwall*.—Manganese and iron ores.
- 236 MORE, F. *Linley Hall, Shropshire*.—Lead ores. Ancient lead, spades, &c.
- 237 MOREWOOD & ROGERS, *Stratford, Essex*.—Articles coated with lead, tin and lead, tin and zinc, &c.

CLASS 1.]

AND MINERAL PRODUCTS.

5

South Court, Eastern Annex.

- 238 MORGAN, R. & SONS, *Llanelly, Carmarthenshire*.—Anthracite malting coal.
- 239 MOSER & SONS, *Southwark*.—Sections of rolled iron.
- 240 MOULDED PEAT CHARCOAL CO. *Fenchurch-st. London*.—Charcoal, foundry blacking, iron and tin plates, and peat products.
- 241 MUCKLESTON, E. THE REV. *Stoke Cobham*.—Stone from Whitesbourne quarry, Shropshire.
- 242 MURPHY, J. *Penzance*.—Serpentine ornaments.
- 243 MURRAY, A. 24, *New-st. Spring-gardens*.—Anthracite from Broadmoor and Landshipping.
- 244 MURRAY, T. *Chester-le-Street, Durham*.—Working model of underground steam-engine.
- 245 MUSEUM OF PRACTICAL GEOLOGY, *Jermyn-st.*—Model of Holmbush Mine, constructed by T. B. Jordan, Clapham.
- 246 MYLNE, R. W. 21, *Whitehall-pl.*—Map, —tertiary and cretaceous districts, —France, England, &c. with contoured seas.
- 247 NEWALL, D. H. & J. *Granite Works, Dalbeattie*.—Stone monument and a fountain.
- 248 NEWCASTLE, DUKE OF, *Shireoak Colliery, Worksop*.—Steam coal, ironstone, and views of colliery.
- 249 NICHOLLS, J. *Trekennig House, near St. Columb*.—Copper and lead ores, slates, and porphyry.
- 250 NICHOLSON, M. *Whittington Collieries, near Chesterfield*.—Stone kerb and arching for coal shaft bottom.
- 251 NIXON, TAYLOR, & CORY, *Cardiff*.—Coal used by Royal yacht, Warrior, Black Prince; section of strata.
- 252 NORTH GUNBARROW CHINA CLAY CO. *Newton Abbot*.—Porcelain clay, &c.
- 253 NORTHUMBERLAND, DUKE OF, *Alnwick Castle*.—Freestone, from quarries in Northumberland.
- 254 NOWELL & ROBSON, *Idle, near Leeds*.—York landings, paving and block stone.
- 255 OAKES & CO. *Alfreton, Derby*.—Coal and iron.
- 256 OKEY, S. F. & CO. *Castleford Iron Works*.—Coal, iron ore, iron, &c.
- 257 ORD & MADDISON, *Darlington*.—Limestones and marbles.
- 258 OXLAND, R. 42, *Park-st. Plymouth*.—Model of furnace for dressing tin ores containing wolfram. Tungsten and compounds.
- 259 PACKARD, E. & CO. *Ipswich*.—Coprolires from Green Sand and Craig.
- 260 PALMER, C. M. *Newcastle-on-Tyne*.—Specimens of coke.
- 261 PARK-END COAL CO. *New Fancy Pit*.—Park-end high delf and smith coal.
- 262 PARKINSON, J. 81, *Cheapside*.—Minerals: Ashburton and Isington. Bethell's Anthracite coke. Dr. Smith's peat fuel. Fire igniters, &c.
- 263 PARSIDE MINING CO. *Whitehaven*.—Hematite iron ore, with section.
- 264 PATENT METALLIC FUSE CO. *Wadebridge*.—Waterproof fuses for blasting.
- 265 PATENT PLUMBAGO CRUCIBLE CO. *Battersea Works, S.W.*—Crucibles for melting metals, portable furnaces, &c.
- 266 PAULL, J. M. *Alston, Cumberland*.—Cage for the ascent and descent of workmen, &c. in mines. Ores, &c.
- 267 PEAKE, S. *Minera, Wreasham*.—Stone.
- 269 PEARCE, W. JUN. *Boscawen-bridge, Truro*.—Inlaid Serpentine and Steatite-tables, column, mausoleum, and dolphin tazza.
- 270 PEARSON, E. 11, *South Quay, Great Yarmouth*.—Amber, jet, agates, petrifications, &c.
- 271 PEARSON, W. *Heddon Quarry, Northumberland*.—Freestone for building.
- 272 PEASE, I. & I. W. *Darlington*.—Model of Upleatham ironstone mines, limestone, coals, coke, fire-bricks, vases, &c.
- 273 PERRENS & HARRISON, *Stourbridge*.—Clays, retort, and fire-bricks.
- 274 PHILLIPS & DARLINGTON, 26, *Moorgate-st. chambers, Moorgate*.—Fuel from partially coked or torrefied coal.
- 275 PHILLPOTTS, I. *Newport, Monmouthshire*.—Risca black vein steam coal, and miners' tools.
- 276 PHIPPAUD, T. *the Priory, Wareham, Dorset*.—Pottery clays and sands, &c.
- 277 PIKE, W. & J. *Wareham, Dorsetshire*.—Clays for fine pottery, &c.
- 278 PIRNIE COAL CO. *Leven Fife. N.B.*—Cannel coal for oil or gas.
- 279 POLGLAZE & VICTOR, *Wadebridge*.—Metallic safety fuses.
- 280 POLKINGHORNE, W. *Tywardreath, Cornwall*.—A synopsis of the Cornwall tickings for copper ores, from 1800 to 1860.
- 281 PORT NANT GRANITE CO. *Pwllheli, North Wales*.—Piers, and permanently-rough pavement for bridges.
- 282 PORTER, W. 21, *Pitt-st. Old Kent-rd.*—Millstones.
- 283 POTTER, A. *Newcastle-on-Tyne*.—Gas retorts, lumps, fire-bricks, &c.
- 284 POWELL, T. & SONS, *Cardiff*.—Coal and plan of colliery.
- 285 POWELL, W. J. *Tisbury, Wilts*.—Coralline flint, &c. from Tisbury oolites.
- 286 PRICE, DR. D. S. 26, *Great George-st. Westminster*.—Illustrations of the smelting of iron in Great Britain. Analysis of specimens.
- 288 PURIFIED FUEL CO. 16, *George-st. Mansion-house*.—Block fuel from coal.
- 289 QUEENSGATE WHITING CO. *Beverley, Yorkshire*.—Fine, hard, and soft Paris white.
- 290 QUILLIAM, T. *Castletown, Isle of Man*.—Manx marble and stone.
- 291 RAMSAY, G. H. & SONS, *Derwenthaugh, Newcastle-on-Tyne*.—Retorts, fire-clay, cannel coal, coke, &c.
- 292 RAY, J. *Kilburne Colliery, Derby*.—Kilburne coal and ironstone.
- 293 RAY, J. *Overstone*.—Slates.
- 294 RAYNES, LUPTON, & CO. *Liverpool*.—Penmaenmawr stone for paving streets.
- 295 READWIN, T. A., F.G.S. *Stretford, Manchester*.—British gold ores.
- 296 REDRUTH LOCAL COMMITTEE, *Redruth, Cornwall*.—Mineral produce of West Cornwall.

B 3

- 297 REID, P. S. *Chester-le-Street*.—Boreing tools.
- 298 RENWICK & NICHOLSON, *Newcastle-on-Tyne*.—Coal and coke.
- 299 RHIWBRYFDIG SLATE CO. *Portmadoc*.—Roofing slates.
- 300 RHORYDD SLATE CO. *Port Madoc*.—Roofing slates and ridges.
- 301 RHOS COLLIERY CO. *Llanelly*.—Anthracite coal.
- 302 ROBINSON & SON, *Stanhope, Darlington*.—Section of Weardale strata.
- 303 ROBINSON, W. & Co. *Gospel Oak Works, Tipton*.—Flat and corrugated iron, variously prepared and treated.
- 304 ROBSON, R. *Newcastle-on-Tyne*.—Specimens of freestone.
- 305 ROGERS & RAWLINGS, *Bradford-on-Avon*.—Font in Bath stone.
- 306 ROGERS, E. *Abercarn*.—Iron ores, plans and description.
- 307 ROGERS, P. *Swansea*.—Enamelled slates and marble.
- 308 ROSS OF MULL GRANITE CO. 35, *Parliament-st.*—Polished red granite, &c.
- 309 RUDDOCK, S. 22, *Bloomfield-ter. Pimlico*.—Statuette of St. Agnes.
- 310 RUSSELL, J. *Newport, Monmouthshire*.—Steam, cooking, and household coal.
- 311 SALT CHAMBER OF COMMERCE, *Northwich*.—Rock salt, marine salt, and other manufactured salt of various countries.
- 312 SALTER, J. W. 28, *Jermyn-st.*—Geological map, coloured on a new principle.
- 314 SCARTH, W. T. *Raby-castle, Darlington*.—Stone, basalt, ironstone, lead ore, &c. from Teesdale.
- 315 SCHLESINGER, J. *George-st. Birmingham*.—Emery-cloth and paper, &c.
- 316 SCHNEIDER, HANNAY, & Co. *Barrow-in-Furness*.—Model of blast furnaces.
- 317 SCHULL BAY COPPER MINING CO. 33, *Great Winchester-st. E.C.*—Malachite and copper ores.
- 318 SCOTTISH IRONMASTERS: Baird, W. & Co., Merry and Cunningham, Dixon, W. S., Houldsworth & Co., Wilson's trustees, Addie, R., Wilsons & Co., Dunlop & Co., and others, *Glasgow*.—Ironstones from which Scotch pig-iron is made; also, specimens of pig-iron.
- 319 SEAFIELD, EARL OF, *Cullen-house*.—Serpentine and specimens from Portsoy. Cairngorm crystals from Strathspey.
- 320 SECCOMBE, J. *Liskeard, Cornwall*.—Crystallized oxide of copper.
- 321 SEWELL, E. *Fulneck, Leeds*.—Model of Tong Ironstonefield, West of Leeds.
- 322 SHELTON BAR IRON CO. *Stoke, Staffordshire*.—Boiler-plate and iron.
- 323 SHEPHERD, T. *Bath*.—Crossway stone.
- 324 SHEPHERD & EVANS, *Aberdare*.—Smokeless steam coal.
- 325 SHIELD & DINNING, *Langley Lead Works, Haydon Bridge*.—Lead ores, lead smelting and refining.
- 326 SIM, W. *Glasgow*.—Silver grey granite Obelisk, decorated with incised ornaments inlaid with gold. *Nave*.)
- 327 SIMON, L. *Nottingham*.—Bronze powder, varnish, and printing ink.
- 328 SIMPSON, O. N. *Little Casterton Quarry, near Stamford*.—Oolite building stones.
- 330 SMAILE, R. & Co. *Newcastle-on-Tyne*.—Pressed crucibles.
- 331 SMITH E. J. *Gateshead*.—Stone.
- 332 SMITH, R. *The Priory, Dudley*.—Hot and cold blast iron, and minerals.
- 333 SMITH, S. *Ashford, Derbyshire*.—Vases of black Derbyshire marble.
- 334 SOPWITH, T. 43, *Cleveland-st. W.*—Illustrations of Allenhead's lead mining.
- 335 SOWERBY & PHILLIPS, *Newcastle-on-Tyne*.—Waldridge, Hutton seam, gas, and smiths' coal.
- 336 SPARK, H. K. *Darlington*.—Coal, coke, ironstone, iron, and fire-bricks.
- 337 SPARKS, W. *Crewkerne, Somerset*.—Stone and limestone.
- 338 SQUIRES, C. & SONS, *Stourbridge*.—Model of glass house furnace, &c.
- 339 STANIER & SON, *Silverdale, Newcastle, Staffordshire*.—Bars for ships' knees.
- 340 STARK, J. C. *Torquay*.—Devonshire marbles.
- 341 STICK, H. & Co. *Swansea*.—Tin plates and iron.
- 342 STICKLEY, J. *Cross-st. Hatton-garden*.—Leaf gold and other beaten metals.
- 343 STRATON & CARGILL, *Arbroath, Forfarshire*.—Polished and dressed pavement.
- 344 SUNDERLAND LOCAL COMMITTEE, 13, *Bridge-st.*—Model of docks and harbour entrance.
- 345 SUTTON & ASH, *Snow-hill, Birmingham*.—Patterns of sections of rolled iron.
- 346 SWANSEA LOCAL COMMITTEE. —Copper, silver, iron, zinc, and nickel ores and metals.
- 347 SWEETLAND, TUTTLE, & Co. 55, *Old Broad-st.*—Copper in various stages.
- 348 TASKER, T. *Billinge-hill Quarry, near Wigan*.—Scythestones and grindstones.
- 349 TAVISTOCK COMMITTEE, *Tavistock*.—Copper and tin ores, stones, clay, &c.
- 350 TAYLOR, BROS. & Co. *Leeds*.—Tyres, cranks, axles, &c.
- 351 TAYLOR, H. *Coal Trade Office, Newcastle-on-Tyne*.—Plans and sections of coal-fields of Durham and Northumberland.
- 352 TEAGUE, M. *St. Paul, Penzance*.—Obelisk.
- 353 TERRET, J. *Coleford, Gloucestershire*.—Brick tiles and pipes.
- 354 THOMAS, H. *Lisburne mines, Cardiganshire*.—Lead ores.
- 355 ————Silver-lead ore from Glogfach mine, Cardiganshire.
- 356 ————Silver-lead ore from Log-y-las mine, Cardiganshire.
- 357 ————Silver-lead ore from Frongoch mine, Cardiganshire.
- 358 ————Silver-lead ore from Cwmystwith mine, Cardiganshire.
- 359 ————Silver-lead ore from Cefn-cwm-brwyn mine, Cardiganshire.
- 360 ————Silver-lead ore from Goginan mine, Cardiganshire.

CLASS 1.]

AND MINERAL PRODUCTS.

7

South Court, Eastern Annex.

- 361 THOMAS, H. *Lisburne mines, Cardiganshire*.—Silver-lead ore from Cwm-Erfin mine, Cardiganshire.
- 362 ————Silver-lead ore from East Darren mine, Cardiganshire.
- 363 ————Silver-lead ore from Nanty mine, Montgomeryshire.
- 364 THOMPSON, HATTON, & Co. *Bilston*.—Iron and tin-plate articles.
- 365 THOMPSON, W. *Elmer-st. Grantham*.—Ancaster free-stone and rag.
- 367 TOMLINSON, A. *Bakewell, Derbyshire*.—Inlaid tables, &c. of Derbyshire marble.
- 368 TONKIN, J. *Pool, Cornwall*.—Transverse section of Dolcoath mine.
- 369 TOWNSEND, WOOD, & Co. *Swansea*.—Bar and sheet iron, tin, terne, and black plates.
- 370 TRASK, C. *Norton-sub-Hamdon, Somerset*.—Ham stones.
- 371 TRICKETT, G. 21, *Cannon-st. E.C.*—A burnt iron column.
- 372 TRICKETT, S. *Isle of Dogs*.—Stones, granite, and marble.
- 373 TRICKETT and HOLDSWORTH, *Horsforth, near Leeds*.—Bramley Fall stone, for docks, bridges, and basement-course of large buildings.
- 374 TROTTER, THOMAS, & Co. *Winnalls-hill, near Coleford*.—Lathe-turned columns. Ashlar, sawn and planed, from Brixdale quarries. Coal.
- 375 TRUSCOTT, C. & Co. *St. Austell, Cornwall*.—China clays, China stones, &c.
- 376 TUFFLEY, E. *Avening, near Stroud, Gloucestershire*.—Model of a staircase in Painswick stone.
- 377 TURNBULL, M. JUN. *Tranwell, Morpeth, Northumberland*.—Specimen of freestone.
- 378 TURNER, CASSONS, & Co. *Portmadoc*.—Slates and slate slabs.
- 379 TURNER, J. 1, *Hall Bank, Buzton*.—Derbyshire marble vases and tables, inlaid.
- 380 TYLER, J. W. 4, *Wood-st. Westminster*.—Improvements in laying of zinc.
- 381 TYM, J. *Castleton, Derbyshire*.—Flour spar vases, candlesticks, chalices, &c.
- 382 USWORTH COLLIERY, OWNERS OF, *Usworth, Washington, Durham*.—Freestone.
- 383 VIGRA and CLOGAU COPPER MINING Co. 28, *Bucklersbury*.—Gold and gold ores from Merionethshire.
- 384 VINT, G. & BROS. *Idle, near Leeds*.—Obelisk in Gazeby stone.
- 385 VOSS, J. *Woodyhide, Corfe Castle, Dorset*.—Purbeck marble.
- 386 WAGSTAFFE & Co. *Fremator Quarries, near Tavistock*.—Pedestal of granite, 4 ft. 8 in. by 16 in.
- 387 WALCOTT, GEORGE, 24, *Abchurch-lane*.—Gas retort bed, full size set of six.
- 388 WALKER, D. *Turrin-hill Quarries near Arbroath*.—Flagstones.
- 389 WARING, C. H. *Neath*.—Miners' safety lamps; cannot be opened without extinguishing the light.
- 390 WARNER, A. 31, *Threadneedle-st.*—Iron treated by chemical processes.
- 391 WARNERS, LUCAS, & BARRETT, *Norton Furnam, Stockton-on-Tees*.—Samples of pig iron and railway chairs.
- 392 WATSON, H. *Newcastle-on-Tyne*.—Safety lamps for coal mines; and underground pump.
- 393 WAYNE, T. & Co. *Aberdare*.—Coal and iron.
- 394 WEARDALE IRON Co. *Ferryhill, Durham*.—Iron, steel, and their minerals.
- 395 WELSH SLATE Co. *Port Madoc, Carnarvon*.—Slabs and building slates from quarries near Festiniog, Carnarvon.
- 396 WESCOMB, C. *Exeter*.—Spiral fluted nails.
- 397 WESTON & GRICE, *West Bromwich, near Birmingham*.—Bar-iron and railway fastenings.
- 398 WHARNCLIFFE SILKSTONE COLLIERY. *Sheffield*.—Coal.
- 399 WHEELER, P. & Co. *St. Austell, Cornwall*.—China clay (Kaolin), and stone.
- 400 WHITELEAW, J. *Preston Grange Colliery, Prestonpans, Scotland*.—Model of miner's safety cage.
- 401 WHITEWAY & Co. *Kingsteignton, Devonshire*.—Tobacco pipe, potter's clays, &c.
- 402 WICKLOW COPPER MINE Co. 43, *Dame-st. Dublin*.—Iron pyrites rich in sulphur.
- 403 WILLIAMS, R. & Co. *Portmadoc, Carnarvonshire*.—Slate ridges for finishing roofs.
- 404 WILLIAMSON, C. *Plas-yn-Morfu, Holywell, Flintshire*.—Ores of lead and zinc.
- 405 WILLIAMSON, J. *Kerridge, Macclesfield*.—Building stones, granite paving sets, &c.
- 406 WILLIAMSON, R. 18, *Lothian-road, Cambervell*.—Model to illustrate system of ventilating collieries.
- 407 WILSON, G. B. *Forest-hall, Newcastle-on-Tyne*.—Specimen of freestone for building.
- 408 WILSON, J. *Grantham*.—Carved font of Ancaster stone.
- 409 WILSON, SIR T. M. *Charlton House*.—Founders', and other sands.
- 410 WIMSHURST'S PATENT METAL FOIL Co. 20, *Cannon-st. E.C.*—Sheet of cut lead, one mile long.
- 411 WOLSTON, R. W. *Brizham, Devon*.—Iron paints and composition for coating materials under water.
- 412 WOMBWELL MAIN COAL Co. *New Barnsley*.—Coal and sections.
- 413 WOOD & DAGLISH, *Hetton Colliery, Durham*.—Models of plan for ventilating collieries, and conveyance of coal under ground.
- 414 WOOD, T. & Co. *Cliff Wood, & Spinkwell Quarries, Bradford*.—Ashlar stone.
- 415 WOODHOUSE & JEFFCOCK, *Derby*.—Coals from Shipley collieries, Derbyshire.
- 416 ————Coals and ironstones from Victoria colliery, Warwickshire.
- 417 ————Coals from Cinderhill colliery, Nottingham.
- 418 ————Coals from Granville colliery Derbyshire.
- 419 ————Coals from Wyken colliery, Warwickshire.
- 420 ————Coals from Moira colliery, Leicestershire.
- 421 ————Coals and ironstone from Oakerthorpe and Highfield collieries, Derby.
- 422 ————Coals from Baddesley collieries.

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| <p>423 WOODHOUSE & JEFFCOCK, <i>Derby</i>.—Coals from Gresley colliery.
 424 ————Coals from Swanwick collieries.
 425 ————Model of Shipley colliery. Coals and ironstones.
 426 WOODRUFF, T. 4, <i>Quadrant, Buxton</i>.—Derbyshire tables, vases, &c.
 427 WOODWARD BROS. <i>Ruabon</i>.—Building, grinding, and scythe stones.
 428 WRIGHT, J. & SON, <i>Jokn st. Granite Works, Aberdeen</i>.—Polished granite vase, &c.
 429 YNISCEDWYN IRON CO. <i>Swansea</i>.—Refined metal, anthracite, coal, and iron, iron ores, &c.
 431 YSTALFYFERA IRON CO. <i>Swansea</i>.—Anthracite pig, bar, and sheet iron, boiler plates, tin, terne plates, and nails.
 432 ABEL. —Fuse for blasting by magneto-electricity.
 433 COSHAM, H. <i>Parkfield Colliery</i>.—Coals from Bristol coal field.</p> | <p>434 FISHER, G. <i>Taff Vale Railway Co.</i>—Model of coal-shipping apparatus.
 435 FLETCHER & CO. <i>Marston, Cheshire</i>.—Rock salt for cattle.
 436 GADLY'S IRON CO. <i>Aberdare, Glamorganshire</i>.—Iron, and steam coal.
 437 GAPPER, J. C. 65, <i>Great Russell-st.</i>—Geological survey of a portion of the Lincolnshire iron field.
 438 HADLEY, J. <i>London</i>.—Lead and quartz from mines in Wales.
 439 HUNT, COL. <i>Eaton-place</i>.—Coke.
 440 LAYCOCK, J. & CO. <i>Seghill Colliery, Newcastle-on-Tyne</i>.—"Carr's Hartley" steam coal.
 441 MURCHISON, S. <i>London</i>.—Copper ores, lead ores, &c.
 442 SERPENTINE MARBLE CO. <i>Waterloo-place</i>.—Serpentine and Devonshire marble.
 443 TENNANT, J. <i>Strand, London</i>.—Septaria table.
 444 WRIGHT, S. <i>Buttermere, near Cocker-mouth</i>.—Slates.</p> |
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CLASS 2.

CHEMICAL SUBSTANCES AND PRODUCTS, AND PHARMACEUTICAL PROCESSES.

Eastern Annex, South-East Passage.

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| <p>Sub-Class A.—Chemical Products.
 458 ADAMS, J. <i>Victoria-ph. Sheffield</i>.—Chemicals.
 459 ALLEN, F. <i>Bow-common</i>.—Aniline and fine chemicals.
 460 ALBRIGHT & WILSON, <i>Oldbury</i>.—Amorphous phosphorus, and other chemical products.
 461 ALLHUSEN, C. & SONS, <i>Newcastle-on-Tyne</i>.—Alkali and bleaching powder.
 462 ANDREW, F. W. 3, <i>Neville-ter. Brompton</i>.—Cement for repairing ceramic articles, &c.
 463 AVRIL, J. 12, <i>Castle-st. Holborn</i>.—Insect killing powder.
 464 BAILEY, J. <i>Shooters-hill, Staffordshire</i>.—Colors for porcelain, glass, &c.
 465 BAILEY, W. & SON, <i>Horseley-fields Chemical Works, Wolverhampton</i>.—Chemicals.
 466 BAKER, E. & SONS, <i>Birmingham</i>.—Paste blacking, black lead, &c.
 467 BAKER, F. B. <i>Hampton-st.</i>—Crystals of sulphate of magnesia, copper, and alum.
 468 BALKWILL & CO. <i>Plymouth</i>.—Metallic and white arsenic, &c.
 469 BARNES, J. B. 1, <i>Trevor-ter. Knights-bridge</i>.—Volatile organic acids and their ethers, &c.
 470 BARRELL, J. 26, <i>Upper Eaton-st.</i>—Plate powder.
 471 BARTLETT, BROS. & CO. <i>Camden-town</i>.—Soluble silicates and aluminates, insoluble made without heat, and artificial stone.</p> | <p>472 BELL & BLACK, 15, <i>Bow-lane, Cheap-side</i>.—Wax vesta wire fusees, and Congreve matches.
 473 BELL, I. L. <i>Newcastle-on-Tyne</i>.—Aluminate of soda. Oxichloride of lead.
 474 BERGER, S. & CO. <i>Bromley-by-Bow</i>.—Rice starch.
 475 BETTS, A. 41, <i>North Bar-st. Banbury</i>.—Blackings, &c.
 476 BLAYDON CHEMICAL CO. <i>Newcastle-on-Tyne</i>.—Chemical manures.
 477 BLINKHORN, SHUTTLEWORTH, & CO. <i>Spalding</i>.—Composition for preventing incrustations in steam-boilers.
 478 BLUNDELL, SPENCE, & CO. <i>Hull and London</i>.—Varnishes, paints, oils, &c.
 479 BOLTON & BARNITT, 146, <i>Holborn-bars</i>.—Chemical products.
 480 BORWICK, G. <i>Little Moorfields</i>.—Baking powder.
 481 BOUCK, J. T. & CO. 32, <i>Dickenson-st. Manchester</i>.—Tar products, and other chemicals.
 482 BOWDITCH, Rev. W. R. <i>Wakefield</i>.—Illustrations of the purification of gas from sulphur: safety lamps.
 484 BRAMWELL & CO. <i>Newcastle-on-Tyne</i>.—Prussiate of potash.
 485 BRAY & THOMPSON, <i>Alum Works, Chatterley, near Tunstall, Staffordshire</i>.—Alum.
 486 BRODIE, B. C. <i>Oxford</i>.—Graphite, chemically disintegrated and purified.</p> |
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CLASS 2.] CHEMICAL SUBSTANCES AND PRODUCTS, ETC.

9

Eastern Annex, South-East Passage.

- 487 BROOMHALL, J. *London*.—Starch from rice, wheat, potatoes, and sago.
- 488 BRYANT & MAY, *London*.—Safety matches and chemical lights.
- 489 BUCKLEY, J. (THE TRUSTEES OF THE LATE) *Manchester*.—Sulphate of iron.
- 490 BUSH, W. J. 30, *Liverpool-st. E.C.*—Essences and essential oils.
- 491 CAHN, D. 12, *North-bdgs. Finsbury-circus*.—Blacks for printers.
- 492 CALLEY, S. *Brixham, Devon*.—Metallic paints, iron ochrea.
- 493 OARR, T. *Birkenhead*.—Soluble superphosphate.
- 494 CATTELL, DR. *Euston-sq.*—Purified gutta percha, varnishes, carbons, inks, &c.
- 495 CHANCE, BROS. & CO. *Alkali Works, near Birmingham*.—Artificial manures and chemical products.
- 496 CHICK, G. B. *Bristol*.—Indigo, stone blue, and black lead.
- 497 CHURCH, A. H. 170, *Great Portland-st. W.*—Rare chemical products.
- 498 COLLINGS, H. A. 48, *Whiskin-st. London, E.C.*—Jeweller's rouge, polishing powders, &c.
- 499 COLMAN, J. & J. 26, *Cannon-st. E.C.*—Starch and blue.
- 500 CONDY, H. B. *Battersea*.—Disinfecting fluid, and other preparations.
- 501 COWAN & SONS, *Hammersmith-bridge Works, Barnes*.—Bones, animal charcoal, &c.
- 502 COX & GOULD, *Chicksand-st. White-chapel*.—Chemicals, various.
- 503 CRISP, E., M.D. *Chelsea*.—Colours from the biles of 500 animals: photographs.
- 504 DAVIS, A. 30, *Union-st. Bishopsgate*.—Polishing paste.
- 505 DAVY, MACKMURDO, & CO. 100, *Upper Thames-st.*—Mercurial preparations, and other chemicals.
- 506 DAWSON, D. *Miln's-bdg. Huddersfield*.—Benzole, aniline, Magenta-powder, &c.
- 508 DOUBLEDAY, H. *Coggeshall, Essex*.—Dextrine for glazing textile fabrics.
- 509 DUNELL, R. G. *Ratcliff-highway*.—Colours for decorators, &c.
- 510 DUNN, A. *Dalston*.—Marking ink pencils, &c.
- 511 DUNN, HEATHFIELD, & CO. *Princes-sq. Finsbury*.—Chemical and pharmaceutical products.
- 512 EMERY, F. & SON, *Cobridge, Staffordshire*.—Porcelain, glass, and earthenware colours, &c.
- 513 ESCHWEGE, H. *Mincing-lane*.—Potable wood naphtha, and pure spirit.
- 514 EVANS, T. 18, *Newland-st. Pimlico*.—Composition for harness, polish, &c.
- 515 EVERETT & CO. 51, *Fetter-lane*.—Blacking and varnish for boots.
- 516 FENN, J. 4, *North-ter. Grosvenor-sq.*—Blacking, varnish, &c.
- 517 FLEMING, A. B. & CO. *Chemical Works, Leith, Edinburgh*.—Vegetable carbon.
- 518 FOOT, C. & CO. *Battersea*.—Acetic, nitric, and other acids.
- 519 FOULKES & WALLWORTH, *Birkenhead*.—Cement for glass, wood, &c.
- 520 GASKELL, DEACON, & CO. *Widnes Dock, Warrington*.—Bleaching powder, alkalies, and colours.
- 521 GILES & BARRINGER, *Hackney-wick. London*.—Starch, polish, and blacking.
- 522 GREATOREX, F. 281, *King's-rd. Chelsea*.—Blacking.
- 523 GRIMWADE, RIDLEY, & CO. 81, *Gt. St. Helen's*.—Anti-corrosion paint.
- 524 HAAS & CO. *Leeds*.—Dyes.
- 525 HALLETT, G. & CO. 52, *Broadwall, Blackfriars*.—Antimony, and preparations therefrom.
- 526 HARE, J. & CO. *Temple-gate, Bristol*.—Colours.
- 527 HAWORTH & BROOKE, 33, *Lower King-st. Manchester*.—Oxides of tin.
- 528 HIRST, BROOKE, & TOMLINSON, *Leeds*.—Chemicals, pharmaceutical preparations, varnishes, &c.
- 529 HOLLIDAY, R. *Chemical and Lamp Works, Huddersfield*.—Coal tar products and dyes.
- 530 HOPKIN & WILLIAMS, 5, *New Cavendish-st. W.*—Chemical and pharmaceutical products.
- 532 HOWARDS & SONS, *Stratford, Essex*.—Quinine and other cinchona alkaloids and chemicals.
- 533 HULLE, J. *Lombard-rd. Battersea*.—Vegetable alkaloids and their salts.
- 535 HURLET & CAMPSIE ALUM CO. *Glasgow*.—Alum, red and yellow prussiate.
- 536 HUSKISSON, W. & SONS, 77, *Swinton st. W.C.*—Chemical products.
- 537 HUTCHINSON & EARLE, *Widnes Docks, near Warrington*.—Specimens illustrating the process of alkali manufacture.
- 538 HYNAM, J. *Princes-sq. Finsbury*.—Matches, vestas, and fusees.
- 539 JAMES, E. *Sutton-rd. Plymouth*.—Starches, blues, black leads, &c.
- 540 JARROW CHEMICAL CO. *South Shields*.—Soda, alkali, bicarbonate of soda, bleaching powder, &c.
- 541 JOHNSON & SONS, *Basinghall-st. London*.—Lunar caustic and other chemicals.
- 542 JOHNSON, W. W. & R. & SONS, *Limehouse*.—White lead.
- 543 JOHNSTONE, R. *Black Works, Agartun, St. Pancras*.—Vegetable and spirit blacks.
- 544 JONES, J. M. *Gloucester*.—Composition for preserving leather.
- 545 JONES, O. & CO. *York-rd. Battersea*.—Rice starch.
- 546 JONES, W. J. 12, *Victoria-rd. Belgrave*.—Chemical products for dyeing and cleaning.
- 547 JUDSON, D. & SON, 10, *Scott's-yd. City*.—Dyes and dye stuffs.
- 548 KANE, W. J. *Chemical Works, Dublin*.—Chemicals.
- 549 KINGSTON, S. *Spalding*.—New pain for iron and external work.
- 550 KLABER, H. *Albion-pl. E.C.*—Wax Vestas, flaming fusees, matches, &c.
- 551 KUKLA & CO. *Pentonville-rd.*—Artificial salt.
- 552 LAMBERT, W. T. 9, *Tabernacle-row, Finsbury*.—Mercury, potee powders, refined black lead, &c.

- 553 LANGDALE, E. F. 72, *Hatton-garden*.—Essential oils, fruit essences, &c.
- 554 LANGLEY, W. 3, *Salter's Hall-ct. City*.—Fine colours and bronze-powders.
- 555 LEATHART, C. 19A, *High-st. Newington Butts*.—Green colour without arsenic, &c.
- 556 LETCHFORD & Co. *Whitechapel*.—Wax vestas and matches.
- 557 LEWIS, J. & SON, *Pontardawe Chemical Works, Swansea*.—Acetate of soda.
- 558 LONDON MANURE CO. 116, *Fenchurch-st.*—Artificial manures, &c.
- 559 LONGBOTTOM, J. & Co. *Belgrave Foundry, Leeds*.—Substances carbonized by patent process.
- 560 LUCAS, G. 44, *Kennedy-st. Manchester*.—Mineral filling for metallic plates.
- 561 MACKAY & Co. *Inverness*.—Chemical manure.
- 562 MANDER BROS. *Wolverhampton and London*.—Varnish and japan.
- 563 MARSHALL, J. SON, & Co. *London and Leeds*.—Cudbear, orchil, indigo carmine, lac dye, dyewoods, &c.
- 564 MASON, C. F. A. 13, *Walcot-pl. S.*—Blacking.
- 565 MAY & BAKER, *Garden Wharf, Battersea*.—Mercurial and other chemical products.
- 566 MELINCRYTHAN CHEMICAL CO. *Neath*.—Acetates and other products derived from the dry distillation of wood.
- 567 METROPOLITAN ALUM CO. *Bow-common*.—Alum.
- 568 MILLER, G. & Co. *Glasgow*.—Products of Boghead mineral and of coal tar.
- 569 MOCKFORD & Co. 7, *Mincing-lane*.—Chemicals, colours.
- 570 MORSON, T. & SON, *Southampton-row*.—Chemical and pharmaceutical products.
- 571 MUSPRATT, BROS. & HUNTLEY, *Liverpool, and Flint, N. Wales*.—Soda, chloride of lime, sulphate of alumina, &c.
- 572 NAYLOR, W. 4A, *James-st. Oxford-st.*—Samples of varnish, &c.
- 573 NEWMAN, J. *Soho-sq.*—Pigments.
- 574 ODLING, A. 30, *Glasshouse-st. Vauxhall*.—Ammonia.
- 575 PALING & Co. *Newark, Nottinghamshire*.—Starch, printers' flour, manures, and turnip-fly preventative, &c.
- 577 PATENT NITRO-PHOSPHATE CO. 109, *Fenchurch-st. E.C.*—Manures, and materials used in their manufacture.
- 578 PATENT PLUMBAGO CRUCIBLE CO. *Battersea Works, S.W.*—Plumbago, black lead, graphite, &c.
- 579 PEACOCK & BUCHAN, *Southampton*.—Composition for preserving ship's bottoms, &c.
- 580 PEGG, HARPER, & Co. *Derby*.—Painters' colours, plaster of Paris, barytes, &c.
- 581 PERKIN & SONS, *Greenford-green, Middlesex*.—Specimens illustrating the manufacture and application of Perkin's aniline purple.
- 582 PINCOFFS & Co. *Manchester*.—Alizarine and garancine.
- 583 POTTER, W. H. 23, *Clapham-rd.-pl. Surrey*.—Manures.
- 584 REA, J. 115, *Wardour-st.*—Shellacs, resins, and varnishes.
- 585 RECKITT, J. & SONS, *Hull*.—Starches, blues, and black-leads.
- 586 REEVES & SONS, 113, *Cheapside*.—Fine pigments.
- 587 RICHARDSON BROS. & Co. 17, *St. Helen's-pl.*—Refined saltpetre.
- 588 ROBERTS, DALE, & Co. *Manchester*.—Chemical products, pigments, aniline colours, &c.
- 589 ROOTH, J. S. *Chesterfield*.—Chemicals.
- 590 ROSE, W. A. 66, *Upper Thames-st.*—Varnishes, colours, oils, &c.
- 591 ROWNEY & Co. 51, *Rathbone-pl.*—Fine pigments.
- 592 RUMNEY, R. *Ardwick Chemical Works, Manchester*.—Illustrations of new chemicals for dyeing and calico printing; introduced since 1851.
- 593 ——— Silicate of soda and potash, uric acid and compounds.
- 594 RUMSEY, W. S. 3, *Clapham-rise*.—Chemical productions for polishing metals.
- 595 SAVORY & MOORE, 143, *New Bond-st.*—Chemicals.
- 596 SCOTT, W. L. *Westbourne-pk. W.*—Fabrics dyed with diazothine and aniline green.
- 597 SHAND, G. *Stirling*.—Tar and chemical products.
- 598 SHANKS, J. *St. Helen's, Lancashire*.—Specimens illustrative of the manufacture of chlorine.
- 599 SIDEBOTTOM, A. *Camberwell*.—Painting that will resist water and air: copying fluid: Lakes, &c.
- 600 SIMPSON, MAULE, & NICHOLSON, 1 & 2, *Kennington-rd.*—Coal-tar products and dyes.
- 601 SMITH, B. & SON, *Spitalfields*.—Archil, cudbear, and orchelline: and lichens from which they are produced.
- 602 SMITH, T. L. & Co. *St. James'-rd. Holloway*.—Starch.
- 603 SMITH, T. W. *Lower-st. Islington*.—Magenta lake, and other pigments.
- 604 SMITH, T. & H. *London & Edinburgh*.—Products from opium, aloin, caffeine, &c.
- 605 SPENCE, P. *Pendleton Alum Works, Manchester*.—Alum. Raw and calcined shale.
- 606 SPRINGFIELD STARCH CO. 104, *Upper Thames-st.*—Starch and British gum.
- 607 STANFORD, E. C. C. *Worthing, Sussex*.—New products distilled from seaweeds.
- 608 STENHOUSE, J. & Co. *Rodney-st. Islington*.—Rare chemicals.
- 609 STIFF & FRY, *Redcliff-st. Bristol*.—Starch, and other products from rice and wheat.
- 610 STRUVE & Co. *German Spa, Brighton*.—Artificial mineral waters.
- 611 SYMONS, T. *Derby*.—Oil of vitriol, sulphate of ammonia, colcothar.
- 612 TUDOR, S. & W. *London, and Lead Works, Hull*.—Carbonate of lead and white lead.
- 613 VERSMANN, F. 7, *Bury-ct. St. Mary-axe*.—Wolfram ores, tungstate of soda, and antflammable fabrics, &c.
- 614 VINCENT, C. W. 2, *Greyhound-ct. Milford-lane*.—Varnishes for making black and coloured printing inks.
- 615 WALKER ALKALI CO. *Newcastle*.—Hyposulphite of soda, alkalies, &c.