

CLASSIFIED LISTS OF OBJECTS which may be admitted to the EXHIBITION OF THE WORKS OF INDUSTRY OF ALL NATIONS, to be opened in London 1st May 1851.

SECTION I. Raw Materials and Produce,—illustrative of the natural productions on which human industry is employed.

SECTION II. Machinery for Agricultural, Manufacturing, Engineering, and other purposes, and Mechanical Inventions,—illustrative of the agents which human ingenuity brings to bear upon the products of nature.

SECTION III. Manufactures,—illustrative of the result produced by the operation of human industry upon natural produce.

SECTION IV. Sculpture, Models, and the Plastic Art generally,—illustrative of the taste and skill displayed in such applications of human industry.

This Division of the Objects for exhibition into Four Sections will be generally preserved. Articles belonging to one Section may however be admitted to another, where they may be considered necessary,—but in such cases for illustration only.

## SECTION I.

### RAW MATERIALS AND PRODUCE.

Under Raw Materials in this Section are to be included all products of the Mineral, Vegetable, and Animal Kingdoms, either in an entirely Raw State, or in any Stage of Preparation, previous to arriving at the state of a Finished Manufacture (as in Section III.). They are classified according to their uses to man, in their original state and in their Chemical and Mechanical transformations.

#### (A.)—MINERAL KINGDOM.

##### (a.) ORES, AND MODES OF DRESSING.

Native Metals, or Metallic Ores,—the Modes of Dressing, such as crushing, stamping, jigging, buddling, or otherwise rendering them Merchantable; as in the cases of Antimony, Arsenic, Bismuth, Cadmium, Cobalt, Copper, Gold, Iron, Lead, Mercury, Nickel, Palladium, Platinum, Silver, Tin, Zinc, &c. &c.

##### (b.) METALLURGICAL PROCESSES.

The various Methods of Roasting and Smelting the Ores, so as to illustrate Processes. Fluxes, Slags, and other Materials which may serve the purposes of illustration. The various Processes used in adapting Metals for particular purposes, as for making Iron into Cast-iron, Malleable Iron and Steel, &c. &c.

1. USED IN METALLIC MANUFACTURES . .

##### (c.) ALLOYS.

Bronzes of various kinds, such as Statuary, Gun, Bell, and Speculum Metal, Britannia Metal, Brass of different kinds, German Silver, Argentine and other varieties of White Metal, Pewter, Type Metals, Sheathing Metal, Compounds of Metals with Phosphorus and other Non-metallic bodies, &c. &c.

##### (d.) METALS IN PROCESS OF ADAPTATION TO FINISHED MANUFACTURES.

Rolled and Drawn in Sheets, Wires, &c., and Cast in Pigs, Bars, &c., Plated and Electrotyped Metals, &c.

#### (A.) CHEMICAL SUBSTANCES EMPLOYED IN MANUFACTURES.

##### (a.) *Non-Metallic Substances.*

Such as Carbon in its various states for the purposes of fuel, Charcoal, Coke, Bituminous Coal, Anthracite, Lignite, Artificial Fuels, Products of distillation of Coals, Mineral Oils and Naphtha; Phosphorus in its different states; Sulphur as in the manufacture of Sulphuric Acid, &c.; Muriatic Acid, Nitric Acid, Boracic Acid, &c. &c.

##### (b.) *Alkalies, Earths, and their Compounds.*

Such as *Potash and its Salts*, as Carbonate, Sulphate, and Chlorate of Potash; Nitre native and artificial, the latter as made in Asia, France, Switzerland, Sweden, and as used for Gunpowder, &c.;—*Soda and its Salts*; as Common Salt and its various modes of preparation, Nitrate of Soda, Borax, Soda Ash, and Carbonate of Soda native and as prepared either from Salt, Barilla, or Kelp, and as used for soap or glass-making, &c.; Sulphate of Soda, &c.; *Lime and its Compounds*, as Limestone, Chalk, Marbles, Mortars, and Hydraulic Limestone, Cements, Materials for Frescoes, Plaster of Paris, Gypsum, Alabaster, Bleaching Powder, &c.; *Magnesia*, and the materials for preparing it and its Salts; *Barytes*, as Sulphate of Barytes; *Strontia* for coloured fires, &c.;—*Alumina*, as Alum Slate, Alum, Sulphate of Alumina, &c.

2. CHEMICAL PRODUCTS .....