Indigo, (in/di-go.) n. [Pr., It., and Sp. indigo.] (Chem.) A blue dye-stuff, extracted from a variety of plants, growing principally in India and America, especially from species of Indigofera, q. v. The common woad, or Isatis tinctoria, also yields indigo. It has been found in minute quantities in the milk of cows and in human urine. It is one of our most important dye-stuffs, both from the beauty and permanence of the color it yields, and from the ease with which it is applied to fabrics of all materials. The juices of the plants from which indigo is obtained give no evidence of its presence while in their natural state, but require to undergo a process of fermentation before the dark-blue coloring-matter known in commerce as indigo, is precipitated. The method of manufacture consists in steeping the plant in water until fermentation sets in, the coloring-matter dissolves in the water, forming a yellow solution, which is drawn off from the rest of the vegetable matter. This solution, by agitation and continual exposure to the air, gradually deposits indigo as a blue precipitate, which is dried, and pressed into the form in which it is sold to customers. India and the islands of the Indian Archielago produce four-fifths of the indigo consumed, the remainder being furnished principally by Central America, only a very small proportion being found in other parts of the world. The indigo of commerce contains indigotine, or indigo-blue, may be obtained in crystals from the red or brown coloring-matter, by sublimation between two watch-glasses; but as this process is attended with considerable loss, the following method is usually adopted in commerce:— Four ounces of commercial indigo in fine powder, and four ounces of grapesugar, are placed in a flask capable of holding, at least, ten pints of liquid; and six ounces of a saturated solution of caustic soda is added to them, and the flask filled up with boiling alcohol. The mixture is shaken, the flask being first closed, so as to exclude the air, and set aside. In a



Fig. 1377. — Indigo plant (Indigofera tinctoria.)