the composition of the Turkish hashish. The resin, which naturally exudes from the leaves and flowers, when carefully collected by hand, is known as "asmona; the same, when taken off with sticks, is sold under the name of "charma." An extract obtained by the use of butter, when mixed with spices, forms the darnask of the Arabs, and is the foundation of the hashish of many Eastern countries and districts. The dried plant is smoked, and sometimes chewed. Five or ten grains reduced to a powder are smoked from a common pipe along with ordinary tobacco, or from a water-pipe with a peculiar variety of tobacco called "shosha." The resin and balsamic extract are generally swallowed in the form of pills or balsams. The hemp-plant and its preparations appear to have been used from very remote times. The effects of the natural resin, or charma, have been carefully studied in India by Dr. O'Shanagher. He states that when taken in moderation it produces increase of appetite and great mental exhilaration.

Fig. 1270 — Hemp (Cannabina sativa). A. male inflorescence; B. female inflorescence. While in excess it causes a peculiar kind of delirium and catarrh. The effect produced by hemp in its different forms varies, like that of opium, both in kind and in degree, with the use of men who use it, and with the individual to whom it is administered. Upon Orientals its general effect is an agreeable and cheerful character, exciting them to laugh, dance, and sing, and to commit various extravagances. It, however, renders some excitable and quarrelsome, disposing them to acts of violence. It is from the extravagant behavior of individuals of this latter temperament that the word "assassin" have most probably arisen, the word having been derived from hashiashin, a hashish-eater. As a medicine, Indian hemp was tried by Dr. O'Shanagher in rheumatism, hydrophobia, cholera, and tetanus. In the last such wonderful cures were effected, that the hemp was pronounced as anti-consumptive remedy of the greatest value. Forere calls it an exhilarant, insomniac, hypnotic, and soporific, and stupefying or narcotic. The extract made in India, and then imported, has been found to be much stronger than that made in this country. This fact seems to prove that the plant is materially injured by the voyage. — Hemp-culture requires a rich, kindly soil, in good heart, free of weeds, and capable of enduring extremes of wet and also dry seasons, to find which the subsoil must be examined as well as the surface. Millions of acres of fertile corn-bands in the Western States have surface-soils entirely suited to hemp-culture, and, from the retentive nature of their clayey sub-soils, hemp cannot be successfully cultivated year by year without thorough under-draining. Favorable soils are found in great perfection on the alluvial bottoms of the Mississippi and the Missouri rivers, and some of their branches. The soil is not too rich, does not hold water standing upon the surface after heavy rains, and in drought does not bake and crack, but has moist earth within 2 or 3 inches. The surface, it possesses the subsoil for hemp-culture. Hemp, which once amounted to 50,000 tons in Missouri and Kentucky, has fallen to 5,500 tons.