tin. No. 34, experiments with sorghum in 1891, by Prof. H. W. Wiley.)

The sugar crystallized readily and separated perfectly in the centrifuges from the syrup in two to five minutes. By the processes hereinbefore mentioned the sorghum grower of the central States may compete with the grower of ordinary cane in the South. From an acre of good sorghum may be obtained a barrel of nice nearly white sugar, equal in every way to ordinary cane sugar.

The question may arise: "Can the farmer profitably manufacture his own sugar, e. e., on a small scale?"

Probably no more than the farmer can manufacture his own woollen goods or make his own flour.

It is doubtful if cane can be profitably raised more than three miles from a central factory, and besides enough cane can be raised within two miles of the factory to supply all of its demands. Such being the fact, the central and northern States must hope to make their own supply of sugar, not by individual factories, but by a system of central factories put up on a large scale and equipped for all the steps of molasses and sugar making.

The amount of sugar consumed in the United States for the year ending June 30, 1890, was about three billion pounds (an average of fifty-five pounds per capita), and there were eighty million gallons of molasses consumed.

The United States produced about one-tenth of the sugar and one-fifth of the molasses. Hence the necessity for increasing our sugar producing crops, viz. : the southern cane and the northern sorghum and the beet.

—The third annual meeting of the Ohio Academy of Science was held at Columbus on Dec. 28 and 29, 1893.

WANTED.—Books or information on the microscopical determination of blood and hair. Also reports of cases where hair has played an important part in the identification of an individual. Address Maurice Kelter, 204 First Ave., Marshalltown, Iowa.

A GEOLOGIST thoroughly conversant with the geology of the Southern States desires an engagement. Has complete knowledge of the economic geology of Iron, Coal, Limestone, as well as of the locations and occurrence of valuable Geological Surveys. Address K., 506 West Sixth Street, Austin, Texas.

SOME OF THE NEW BOOKS AT LOW PRICES.

FAMOUS VOYAGERS AND EXPLORERS.—$1.50.

Mrs. Bolton has added to her Famous series of books another and an unusually interesting volume, "Famous Voyagers and Explorers." It is hardly comprehensive, as it gives the biographies of only a few typical explorers—Marco Polo, Columbus, Magellan, Raleigh, and the more prominent of our modern American explorers. Doubtless such names as the Cabots, Sir Humphrey Gilbert, De Soto, Cartier, Nansen and others are reserved for a second volume. Mrs. Bolton has a gift for this sort of writing, and she has here brought together a large amount of truly interesting matter which otherwise could only be obtained by reading through a dozen or more separate volumes. The book is illustrated with several portraits.—Boston Transcript.

OUR GREAT WEST.—$2.50.

The contents of the volume appeared serially in Harper's Magazine and Harper's Weekly, in which periodicals they attracted wide attention and favorable comment. Their importance fully justified their republication in a more permanent form. The book affords a more minute insight into the present condition of the West than can be found elsewhere. What it tells is the result of personal experience, fortified by information obtained from the best-informed and most reliable men in the localities under discussion, and set forth with admirable clearness and impartiality. It is a work to be read and pondered by those interested in the growth of the nation westward, and is of permanent standard value.—Boston Gazette.

STATESMEN.—$2.00.

In the preparation of this work Noah Brooks has aimed to present a series of character sketches of the eminent persons selected for portraiture. The object is to place before the present generation of Americans salient points in the careers of public men whose attainments in statesmanship were the result of their own individual exertions and force of character rather than of fortunate circumstances. Therefore these brief studies are not biographies. Mr. Brooks had the good fortune of personal acquaintance with most of the statesmen of the latter part of the period illustrated by his pen, and he considers it an advantage to his readers that they may thus receive from him some of the impressions which these conspicuous personages made upon the mental vision of those who heard and saw them while they were living examples of nobility of aim and success of achievement in American statesmanship.

MEN OF BUSINESS.—$2.00.

W. O. Stoddard, who has just written a book published by the Scribners, on "Men of Business," tells how the late Senator Stanford chopped his way to the law. "He had grown tall and strong," says Mr. Stoddard, "and was a capital hand in a hay-field, behind a plough, or with an axe in the timber; but how could this help him into his chosen profession? Nevertheless it was a feat of wood-chopping which raised him to the bar. When he was eighteen years of age his father purchased a tract of woodland; wished to clear it, but had not the means to do so. At the same time he was anxious to give his son a lift. He told Leand, therefore, that he could have all he could make from the timber, if he would leave the land clear of trees. Leland took the offer, for a new market had lately been created for cord-wood. He had saved money enough to hire other choppers to help him, and he chopped for the law and his future career. Over 2,000 cords of wood were cut and sold to the Mohawk and Hudson River Railroad, and the net profit to the young contractor was $2,600. It had been earned by severe toil, in cold and heat, and it stood for something more than dollars.—Brooklyn Times.

ORTHOMETRY.—$2.00.

In "Orthometry" Mr. R. F. Brewer has attempted a fuller treatment of the art of versification than is to be found in the popular treatises on that subject. While the preface shows a tendency to encourage verse-making, as unnecessary as it is undesirable, the work may be regarded as useful so far as it tends to cultivate an intelligent taste for good poetry. The rhyming dictionary at the end is a new feature, which will undoubtedly commend itself to those having a use for such aids. A specially interesting chapter is that on "Poetic Trifles," in which are included the various imitations of foreign verse in English. The discussion of the sonnet, too, though failing to bring out fully the spiritual nature of this difficult verse form, is more accurate than might be expected from the following sentence: "The form of the sonnet is of Italian origin, and came into use in the fifteenth [sic] century, towards the end of which its construction was perfected, and its utmost melodious sweetness attained in the verse of Petrarch and Dante." In the chapter on Alliteration there are several misleading statements, such as calling "Piers the Plowman" an "Old English" poem. In the bibliography one is surprised not to find Mr. F. B. Gummere's admirable "Handbook of Poetics," now in its third edition. In spite of these and other shortcomings, which can be readily corrected in a later issue, the work may be recommended as a satisfactory treatment of the mechanics of verse. A careful reading will improve the critical faculties.—The Dial.

Any of the above books will be sent prepaid on receipt of the publisher's price, less ten per cent. The same discount will be allowed on any new book, not a text-book.

N. D. C. HODGES,
874 Broadway, New York.