

A HOROLOGICAL BUREAU.

Arrangements are now being perfected for the establishment of a horological bureau in connection with the Sheffield Scientific School at New Haven, Conn. A suitable building will be erected, a telescope mounted, clocks placed, and every possible convenience arranged to make the bureau as perfect and complete as possible. Mr. Waldo, the gentleman who is to have charge, is already upon the ground and directing the progress of the work.

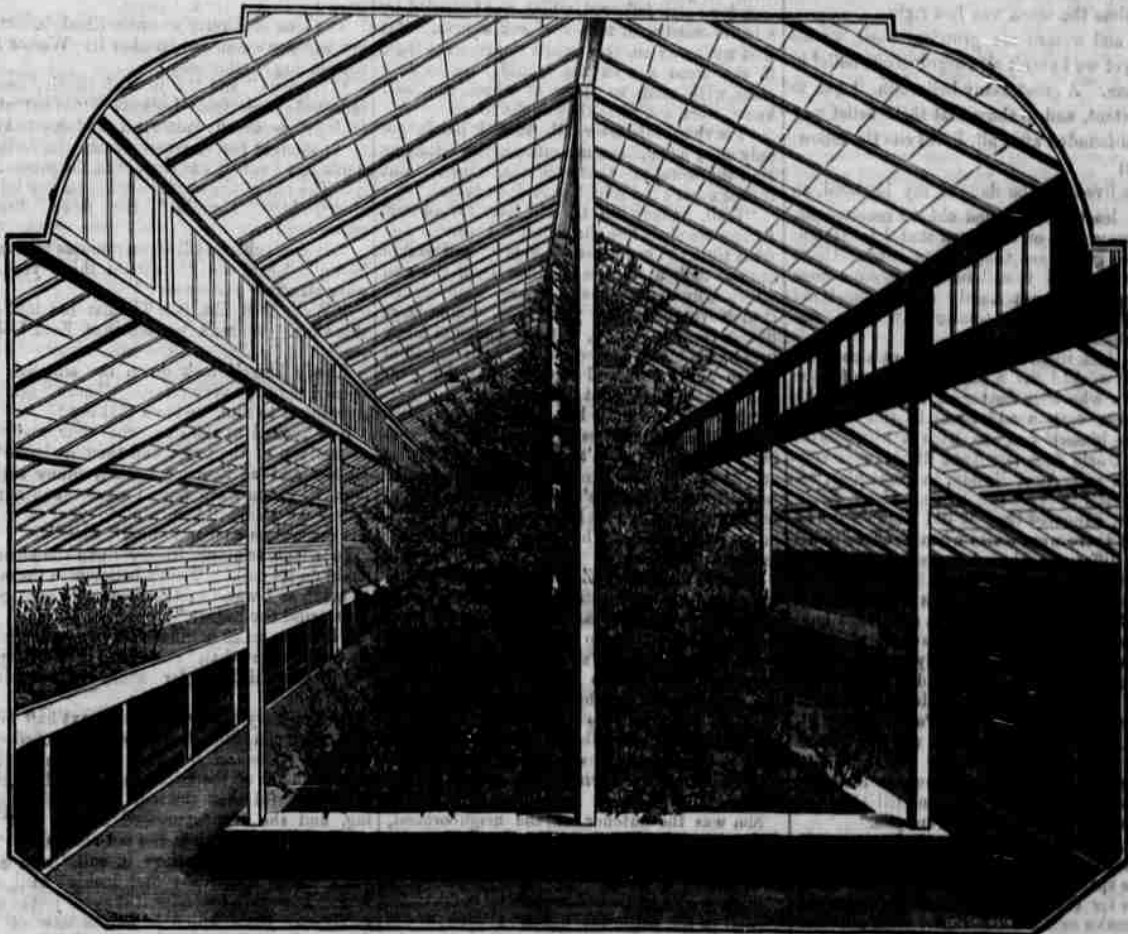
There are already one or more establishments of the kind in the country—notably the one at Cambridge, which supplies the time for the railroads converging at Boston. But the supply of approximately correct time is the only use for which this and other observatories of

not the central point; but some of the numerous clock's stars, as they are called, whose time is known, will be selected and observations made at night, although with the larger stars observations may also be made in the day time. The sun will be abandoned, because one observation in twenty-four hours is not enough; an observation may be made with each star every twenty-four hours. New Haven time will be taken, but New York time will be furnished also. The Waltham Company will send 100 or 200 watches for rating, as soon as everything is ready. "Rating" for private parties, we presume, is paid for, and will form, to some extent, a source of revenue to the bureau. This bureau will probably furnish standard time for the whole country, as time can be sent by telegraph and computed for any known longitude.

There is a great deal said and written about

NEW ORANGE HOUSE AT WASHINGTON.

Some time ago the Department of Agriculture at Washington secured from abroad a collection of the citrus family trees, embracing many of the leading varieties of the orange, lemon and lime. This collection forms the basis of the citrus operations of the Department. Some of the varieties which have already fruited have proved of high order, and have been propagated and distributed. To secure better facilities for growing and propagating the best varieties, the orange-house shown in the engraving on this page has been erected. We do not find record of the area enclosed in the new structure, but it is evident from the engraving that it is considerable. It is planned so that the entire roof can be removed during the summer months, and the trees are grown in beds of soil and not in boxes. These



INTERIOR VIEW OF THE NEW ORANGE HOUSE OF THE U. S. DEPARTMENT OF AGRICULTURE.

the kind in this country have hitherto been employed, while the chief object of this new observatory, in addition to determining time, is the rating of watches, a thing which has not yet been attempted in this country.

To rate a watch is "to determine the rate of its gain or loss in respect to true time." Swiss watches are rated in Europe, and have been greatly improved thereby. No American watches have ever yet been rated, and manufacturers in this country are placed to disadvantage in consequence. Work of this kind has always been considered government work, or the work of scientific associations. It is now, for the first time, to be inaugurated here, under the direction of a liberally endowed association. This bureau will add nothing to the educational advantages of Yale, but will be simply a scientific work.

In initiating the work, after everything is in readiness, a sidereal clock will be started, as nearly correct as possible, after which observations will be made, to get absolutely correct time. In arriving at such a result, the sun is

a "higher education for women." Heaven knows we need it sorely, but not exactly in the sense in which the term is used. We want a higher education of conscience to give us a truer knowledge of our duty to the young of both sexes; we need to be taught that he or she who works skillfully with a pair of hands, may be as highly educated as those who work only with the head; we need to learn common sense with regard to the occupation by means of which women seek to earn an honest livelihood; that when two girls graduate from our high schools, she who has talent for dressmaking, takes rank equally with her who teaches Greek or Sanscrit; that she who can be a tasteful milliner is as truly an artist as she who seeks fame as painter or sculptor, though they travel by different roads.—*Boston Transcript*.

"I wish you would pay a little attention to what I am saying, sir," roared a lawyer to an exasperating witness. "I am paying as little attention as I can," was the calm reply.

two facts of course tend to the attainment of successful growth under natural conditions—points of the highest importance. The trees will enjoy open air culture until the approach of winter renders protection necessary.

THE GIRL WHO NEVER TOLD A LIE.—A little girl once came into the house and told her mother something which was very improbable. Those who were sitting in the room with her mother did not believe her, for they did not know the character of the little girl. But the mother replied at once: "I have no doubt that is true, for I never knew my daughter to tell a lie." Is there not something noble in having such a character as this? Must not the little girl have felt happy in the consciousness of possessing her mother's entire confidence? O, how different must have been her feelings from those of the child whose word cannot be believed, and who is regarded by everyone with suspicion! Shame, shame upon the child that has not magnanimity enough to tell the truth.