interest to the scholars and to the country generally, to our store of information and give us a better knowledge of the heavens?

The largest telescope that could be made cannot fail whole country, if, through its great eye, some important discovery were made; for the wonders astronomy heart. But the largest telescopes are not as available to the ordinary observer as those of more moderate dimagnifying power as for their light-gathering power.

We have seen Jupiter and Saturn through the great The great telescope is used principally to bring out objects that are invisible in smaller ones. Thus the Washington telescope won renown by its discovery of the moons of Mars. Herschel discovered Uranus with his reflector of 2 feet aperture. Mr. Lassell discovered two moons of Uranus with his reflector of 2 flector of the late Professor Henry Draper was used in that those who plant small trees do not live long now daily visiting the Exposition. photographing the Great Nebula of Orion, bringing out enough to see much of the effect they produce. In stars of the 14th magnitude. But it takes practiced the case of that favorite fruit the pear, it used to be eyes and the devotion of a lifetime to detect these said that those who plant them plant for their heirs, minute and distant objects. The directors of the great and with the ordinary kind of trees planted to give observatories are absorbed in their work. They have effect or shelter there is still longer to wait. little time or inclination to reveal celestial wonders to shorten time in waiting is the manifest object of ordinary observers, who are untrained to see whatthey those who go to the trouble of planting large trees see or to comprehend the abstruse calculations by which instead of little ones in the grounds about their they reach results.

ple. A widespread interest is felt in all that pertains has to be done, it often happens that enough foreto the heavens. It is, however, popular astronomy thought is not brought to bear on the proceedings. In that is demanded. The accounts of eclipses, comets, place of taking the precaution to previously prepare occultations, are eagerly read, and the movements of the trees by trenching round them, and severing the the bright planets are followed by thousands of observ- roots to within a movable compass, so as to admit of ers all over the country.

It would be a noble work for a philanthropist to endow an observatory, furnish it with the best kind of ing for perhaps a score of years or more with their instruments and efficient officers, and devote it under roots unchecked in any way; the result of which is, ing a prominent place. Both meat and milk are used certain restrictions to the use of the people. The telescope is the only instrument that brings nearer to our not near so much as it would be if the roots had been eyes the mysterious creations of the firmament, and re-veals the vastness of the material universe. Those who omission of this timely preparation of trees that are are familiar with its revelations must necessarily gain to be transplanted when much above the ordinary a better knowledge of the heavens, and by their influence increase the general interest in the ennobling science by relating what their own eyes have seen.

PROGRESS OF PNEUMATIC POSTAL TUBES.

system is now complete and in operation, ramifying is better to plant small trees and wait for them to grow under the streets in every direction. The places for depositing letters are in the various telegraph of- as would give effect at once. In the case of deciduous fices. By payment of fifteen cents, letters may be in-kinds of a size such as under notice, and that are instantly sent by tube to any part of the city. The tubes tended for removal next autumn or winter, the sooner also extend from the post offices to the chief railway the root shortening preparation is now completed the stations, and letters posted at the last moment may be sent so as to catch the train. Letters from out of the buds. With evergreens it is better to defer this town may, if so paid, be sent by postal tube to desti- work until the time that the drying March winds are nation instantly on arrival of the train in the city de- over, especially in cases where the trees are large and in venience to the public, and in time will no doubt become an adjunct of the postal service of all large cities. Their use in European cities is already extensive, much more so than in this country, although Americans sometimes pride themselves upon their enterprise and love of doing things quickly. For delivery of local messages our New York telegraphs and telephones are slow what it should be.

anywhere within a distance of three or four miles and within the past two or three weeks. receive reply quicker than to employ the telegraph. In this city the Western Union Telegraph Co. have a line its finishing touches, in the completion of a separate of pneumatic tubes, extending from Broad St. up Broad-building of gorgeous architecture for the display of its way to 23d St., a distance of nearly three miles. This minerals, in one part of which is a hillock of block silis found by the company to be a quicker and cheaper ver worth \$144,000. The Mexican display is in every way of sending its own messages than to use its local way most excellent, and affords a far more complete wires. We wish the post office department could ar- representation of the natural resources of the repass right in front of the building. The department entire completion of the Mexican department, howto that extent the privilege of Parisians.

our city post office, or ten to twenty minutes' smart impressive. walk by a letter carrier. But so great is this obstacle

and, in your opinion, would such a one add materially foreign mails from two to three hours before the ships sugar made in that State were passed around as souvepeople, they have what is termed a supplementary mail, to awaken a deep interest among scholars and in the of dropping letters in this "supplementary" mail, of latitude northward." The principal Minnesota exreveals touch a sympathetic chord in the popular times up to within one hour prior to the sailing of the day, the flour being held in pyramids of satin sacks. ship, but most generally two hours, as the vessels ordinarily do not leave until two hours after the supplemensions, They are valuable not so much for their mentary mail closes. In view of this mode of conducting things, which is the best our postal people think Russian telescope of 30 inches aperture and through a of them to lay tubes to the docks, or even to employ a has long been sought in vain. In an experimental way telescope of 8¼ inches aperature. The difference in the one-armed soldier carrier to start a few minutes before this machine has been used to clean the fiber of hennetwo views was not so much in the size as in the bright- the ship goes, and walk to the vessel with a last bag, quin leaves, plantain and banana stalks, and Kentucky er light thrown upon the objects in the larger telescope, and thereby give the public the facility of mailing letters up to the last moment.

Preparation of Large Trees for Moving.

be old, is of short duration compared with that of dwellings or other conspicuous places, where the pres Astronomy is making its way to the heart of the peo- ence of such are required. Where work of this kind a season's growth before they are taken up, they are at once transferred from where they have been growthat the progress made for a year or two afterward is omission of this timely preparation of trees that are planting size is the less excusable when it is remembered how little labor cutting in the roots as described involves. To the too frequent absence of judgment and reasonable care in moving trees that have attained considerable size is attributable the failures that oc-In Paris the new extension of the pneumatic postal cur, and that have led many to the conclusion that it | up, even in positions where it is desirable to have such better, before there is any appreciable movement in These pneumatic tubes are a wonderful con-vigorous condition, as with such the root severance necessary is proportionately more felt than with smaller examples.—T. Baines, in the Gardeners' Chronicle.

Progress of the New Orleans Exposition.

Following a custom inaugurated by the managers of the Philadelphia World's Fair, in 1876, the conductors of the New Orleans Exposition have been havcoaches compared with the pneumatic postal tubes, ing a series of State days, on which the exhibits of The telephone service in this city is poor compared with previously designated States are especially decked out in their most attractive garb, and commemorative exer-It takes a good while to halloo to a correspondent, cises are held in honor of the part taken by each in the and when he answers it is not more than about half Exposition. It is perhaps partly owing to the increased the time one can hear what is said, so mixed up and attractions thus presented, as well as to the fine noisy are the wires, and so bad the connections. As for weather and the daily concerts and fireworks exhibitelegraphing, one can generally send a messenger boy tions, that the attendance has been largely increased

The Mexican exhibit at the Fair has at last receive

On "Minnesota day," when the ceremonies were spective merits.

to our postal officials, that they are obliged to close the somewhat elaborate, tin drums filled with sorghum leave the docks. To accommodate merchants and late nirs of the occasion, and one of the speakers referred to Minnesota's exhibit in this line as demonstrating which is kept open one hour later. For the privilege that "the sugar line can be removed eighteen degrees double postage is required to be paid; and in this man-hibit at the Fair is from one of the great Minneapolis ner one may get a letter into the foreign mail some-iflour establishments, where 7,500 barrels are made per The total production of flour in Minnesota for 1884 was given as 8,800,000 barrels.

The operation of the fiber decorticator which is being exhibited at the Fair is watched with a good deal of they can do, it is probably too much to ask or expect interest, as an entirely successful machine of this nature hemp, all of which have been divested of their woody parts in a single operation. It is claimed that this machine is a universal decorticator.

In accordance with the action of a National Conven-The span of human life in the present era of the tion of Passenger Agents, the railroad rates of fares world's existence, even in the case of those who live to were recently reduced to a standard rate of one cent a mile on most of the roads taking passengers to New feet aperture. Lord Rosse's reflector is used chiefly for trees, the progress of which to a state of maturity is Orleans, and this action is materially contributing, making drawings of nebulæ and lunar scenery. The re- proportionately so much slower than that of man, with other causes, to increase the number of visitors

A Dinner for Two Cents.

There is an organization in London for furnishing poor children with a dinner for a penny (two cents); and from a recent published report it seems to have proved a successful experiment, in a pecuniary as well as beneficent sense; so much so, in fact, that another society has undertaken to furnish dinners to poor children in the poorest and most populous part of London for half a penny. It is said that the children who take their meals at the penny establishment show a marked improvement in health, are more regular in attendance at school, and accomplish better work in their studies than when they commenced their new regimen. It may interest philanthropists who are engaged in ameliorating the condition of the poor in our large cities, to know the materials of which these dinners are composed. The bulk of the ingredients is, of course, vegetables and bread, potatoes and peas hold in moderate quantity.

From the report just made it is calculated that each child receives about twelve or fifteen ounces of soup or other kind of nutriment each meal, and this quantity contains from one to one and a half ounces of meat. The children enjoy their dinners, and appreciate the kind attention they receive at their meals. When one considers how scanty and unpalatable is the food furnished to many poor children at their homes in the great cities, like London and New York, it is not surprising that the poor neglected children thrive better, learn more at school, and are happier for a hot palatable dinner and a kind word from the attendants.

The last experiment of furnishing a halfpenny dinner for the very poorest children from the most squalid parts of London has not been established long enough to determine if the receipts will meet the expenses, but it promises well, and the supporters of the enterprise are confident that it will nearly pay its way.

As many as 303 children were fed on the first day; the number has to average about 566. A choice within a certain limit is given, and care is taken to make the food agreeable and wholesome. The first course consists of a rich stew or bacon sandwiches, the second of bread and jam or bread and cheese. children find the dinner ample to satisfy their hunger is shown by the fact of their continued attendance and the little waste made. It is demonstrated that, with the cook's wages, cost of gas and implements excepted, there is no loss, and that they can be made self-sup-

The penny and halfpenny dinner associations of London suggest a plan which it seems might be advantageously adopted in our large cities, and, if conducted on the economic scale of the London societies, not only poor children, but unfortunate adults, might be relieved of much suffering without imposing any tax upon our benevolent citizens.

Any one wishing to know more of the penny dinner enterprise may obtain copies of a pamphlet on the subject from Messrs. Alexander and Shepheard, 21 Castle Street, Holborn, London. It is sold for one penny.

Prize Offered for an Invention.

At the third international conference of the societies of range for the connection of these tubes with our city, public, and the life and history of her people, than was the Red Cross, held in September at Geneva, the Empost office. This could easily be done, as the tubes now ever before offered to the public. In celebrating the press of Germany offered 5,000 f. and a gold medal as a prize for the best model of a soldiers' barrack and field should also extend the line of tubes from 23d St. to the ever, the announcement was made that the "Mexican hospital. The delegates to the conference from this Grand Central Depot at 42d St., and then we might day" proper would not come till May 5, the anniversary country have issued a request to American inventors to have a continuous line of about five miles, and enjoy of the victory of Mexico over the forces of Maximilian, take part in the contest. The barrack must be large when the latter endeavored to capture the fortress of enough to contain 12 beds. It must be easy of trans-The piers from whence nearly all the principal lines Guadalupe, near Pueblo; on this date the representa- portation and made with interchangeable parts, and of steamships take their departure from New York are tives of Mexico at New Orleans will put forth all their capable of being taken down and reconstructed. The within a distance of a mile or a mile and a half from energies to make a display which shall be particularly designs are to be sent to Antwerp, Belgium, by September 1, 1885, when a committee will decide on their re-