CANERSER AN FREEDENS AND --- NEAR N 4. 13877.

UNCLE SAM'S CLOCK

At the Navy Observatory, in Washington, stands the clock that regulates time for the whole country. It is not beautiful, like many lovely French clocks that noiselessly tick upon the parlor mantel; in fact, it is large and tall, with plain face, and body of dark is much like the old fashioned clock that stood in our grandmothers' kitch ens. It nowhere touches either the floor or walls of the building, but is securely fastened to a stone pier, which rests upon a solid stone foundation, so that it may not be affecteed by any motion of the building or ground. Rains may descend, floods come, wind blow and beat upon the house, but the clock feels it not, for it is built upon a rock.

It is a splendid time keeper. At the present time it gains at the rate of .48 of a second per day.

In order that people all over the country may have uniform time, so important for railroads, steamboats, and other public conveyances, at three minutes before twelve each day this clock is connected, by means of a galvanie battery, with the wires of the Western Union Telegraph, which extend into the room containing the clock. All other messages, however important, must give way for these three minutes, and in every town and station from Maine to California, where there is a telegraph operator, as the pendulum of the clock ticks, each seeund a click is recorded by the telegraph, and at the very instant of twelve two clicks are given.

At the same time a huge black ball which is drawn up a few moments before descends upon the dome of the the city stand, with watch in hand, to see it drop, to keep as we say, "ball time." Thus, when this drops a click in every large town in the land tells the hour of twelve.

This clock is also connected with the Fire Alarm in Boston, and the time is sent to the central office, and then sounded by the three church bells that give the fire alarm.

So while the clerks in Washington are watching the ball, the restless school boy of Minnesota is waiting to house sound its merry peal, the signal of dismissal, and the tired factory girl of Lowell listens eagerly for the same sound.

But you must remember that only places on the same meridian with Washington, have after all, exactly the



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HOW RUBBER BOOTS ARE MADE .--The gum used is imported directly from Africa, South America and Central America being the best, while the African gum is the poorest. The raw gum, which is nearly white, is ground several times between immense iron rollers, after which it passes through the composition room, which process is a secret ; but when it comes out the gum has the black appearance of comof passing the rubber between chilled iron cylinders of many tons weight, which are kept very hot and very smooth. A part of the rabber intended for "uppers," is here spread and fastened to long sheets of cloth. The sheets of gum of the required thickness. The rubber cloth is now carried to the cutter's room, where it is cut out and sent to the boot maker. The boots are all made by men, the shoes or ordinary rubbers by girls, while the overshoes by either. One man will make twelve boot maker is through they are placed ture years. they are subject to a temperature of 300 degrees. They are then ready for boxing and shipping. In one factory about four thousand pairs of boots, rubbers and overshoes are turned out called the opelet, and is about as large as the German aster, looking indeed





WASHINGTON STREET, Near PENN'A R. R. DEPOT, WHOLE OX Salp-la ladel where the horned stock les in Johnstown, Pa.,

IRON AND NAILS.

The Invention of Punctures

Punctuation is peculiar to ern languages of Europe wholly unknown to the tip-Romans; and the languages East, although they have cert or signs to indicate tones regular system of pinetan Romans and the Greeks dee had certain points, which, in the languages of the East. fined to the delivery and proof words ;, but the puises no ted by breaking up the wine into lines or paragraphs, not resembling those in the mode of punctuation. Hence, in the ses of the ancient orneles at. generally written down by a and delivered to the inquires biguity, doubtless intention the want of punctuation a saved the credit of the orach. the expected event was forunfavorable. As an instance kind, may be cited that read response, which was given as a known mecasion, when the residue consulted with regard to in-se a certain military expolution r dibis ninquan perilis in h Written, as it was will pointed; it might be translat "Thou shalt go, and shalt not thou shalt perish in bable." shuit go and return, thin she perish in battle." The conor lation of it altogether depart placing of a communitier of ranguam, or after roll. vention of the mulera system. tantion has been attributed to exandrian grammarian Arota after whom it was improved ceeding grammarians; but a entirely lost in the time of the magne that he found it moves have it restored by Wand Alcuin. It consisted, at first day one point used in three was all sometimes of a stocke, former ineral ways. But as hour de mit rules were followed in the needs signs, punctuation will evolt uncertain until the end of the ficentury, when the learned Vestprinters, the manual, how of number of the signs, and callsome fixed rules for their motor These were so generally adout we consider the manufactories ors of the present method of semtion; and although moden give rians have introduced some man ments, nothing but a few parrules have been added susction to

opulation, the supply of nod

Tor exportedion.

ments devoted to

was of course an unmental

The latter is, however, but y

ciently concentrated : and to b

ders. When cold, the tas-

transporent, of a rich test

color, and sweet to the sin-

but 20 lbs, of soup.

simost like conforming 4

A REMARKABLE CAME AND

bullock, after being this tool

greater than the demand, and d

longitude, every twenty-four hours must pass through one degree, which is about sixty-nine miles every four minutes. So, if the sun rises at seven o'clock, it will not rise in New York, two hundred miles west, till twelve minutes after it has reached Boston. Neither will it be twelve o'clock till twelve minutes later than in Boston.

Take the Pacific railroad and travel west, with your watch correct in Boston ; when you reach Omada you will M time; and when you arrive at San Francisco your watch will be three hours and a half fast, because old Sol is still on his way. When in Boston you are going to church at cleven o'clock, the boys in San Francisco are just taking their breakfast at half past

SEVED. So, while I tell you that all the towns receive the click at twelve at the same time, you must remember that in places situated in longitude cast or west from Washington, the number of minutes it takes the sun to ALL OVER THE WORLD pass those degrees must be added to or abstracted from twelve, to give them correct time.

Another thing in the room where the clock is would interest the boys who are delighted with everything that pertains to a ship. This room may be termed a government depot, for here are some two hundred ship chronometers. These are simply large sized watches, and are turnished to every government sea going vessel. Here they are kept several months to be regulated, and their accuracy tested by this clock. The officer in charge examines them daily at a certain hour, and carefully rates the time kept by each.

When a government vessel is ordered to sea, this officer takes them with all possible care to the vessel, protecting them as far as possible from all sudden jars or violent jolting.

When on his cruise, the captain also rates daily the time kept by the chronometer. He marks the time between the moon and some star by his quadrant, which he verifies by his nautical almanae. One was seen at the Observatory that had been absent three years with an Eastern squadron and had varied during the whole time but a few seconds-Wide Awake.

STRAW FOR THE FARM .--- If I could have my entire farm covered with boards lying flat on the ground a whole year, says a correspondent, I would expect more benefit than from twentyfive loads of barnyard manure to the acre. Now so far as the straw goes it has a similar effect. I believe the very best use of straw, except as litter for the stables or barnyards, is to spread it on the fields. I put straw on my wheat last season with manifest improvement to the clover, but in that I was disappointed. I noticed small spots where the straw had been in bunches the clover was out, having been smothered apparently. I took up boards from a space about twenty

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The Centennial spectmens are now on exhibition at 278 Penn Ave., P. tisburgh. [1-I -1y.]



out as may be required. The mechanism is exceedingly curious A considerable number of the bivalve possess what is called a *byssus*, that is, a bundle of more or less delicate filaments, issuing from the base of the foot, and by means of which the animal fixes itself to foreign bodies. It employs the

foot to guide the filaments to the proper place and to glue them there; and it can reproduce them when cut away. The extremity of the thread is attached by means of its adhesive quality to some stone; and this done, the pinna, receding, draws out the thread through the perforation of the extensile member. The material when gathered is washed in soap and water. dried, straightened, and carded-1 lb. of coarse filament yielding about 3 ozs. of fine thread, which, when made into

a web, is of burnished golden brown color. A large manufactory for this

material exists in Palermo

THE FARMER'S GRINDSTONE .- There is no tool as essential on the farm as a es I have also on hand a few good wowing good grindstone ; it is therefore necessary that every farmer should have one and know how to take proper care of it. A grindstone should always be kept under cover, as exposure to the sun's rays harder, the grit and injures the frame. The stene should not stand in water when not in use, as this causes

> lowed to drip from some vessel placed above the stone, and the drip should be stopped when the stone is not in use. All greasy or rusty tools should be cleansed before sharpened, as grease or rust choke up the grit. The stone Manhood : How Lost, How Restored,

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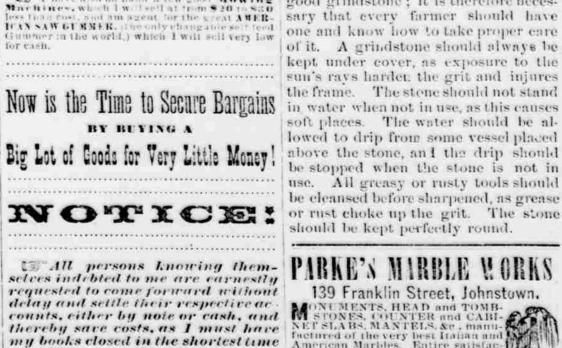
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For Bysenter, mild dose is generally required. For Blacomatism, Gout, Gravel, Pal-pitation of the Efeart, Pain in the bide, Back and Loins, they should be contin-bide, Back and Loins, they should be contin-

nously taken, as required, to change the diseased action of the system. With such change those complaints disappear.

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