THE WORLD OF ELECTRICITY.

Keeping Track of Street Cars.

Chicago Record: The running of a street car from the time it leaves the terminal shed to its return is generally supposed to be dependent entirely on the motorman and the conductor. Few people know that the movement of the car all the time is known to the superintendent in the central office. He simply consults a chronograph and immediately learns whether the cars are running regularly or irregularly; whether there is a stoppage at any point; how long it lasts; how many cars are blocked, and when the trouble is removed and the road begins operation again. This chronograph constitutes a sort of living map of the road by means of which the superintendent can take a bird's-eye view of the whole operation of the line. If there is a bad break he can send instructions to fill in with extra cars. If there is irregularity in the running time without good cause he can check it, and, if necessary, trace the exact car which is responsible for the deviation from schedule time. The manner in which all this information is obtained is extremely simple. The chronograph consists primarily of a sheet of paper moving at a uniform rate under a series of pens or points operated by magnets. Each magnet point represents a point on the road, and each time a car passes this point on the road it makes contact and the magnet point on the chronograph makes a mark on the paper. On the frame of the instrument is mounted a back roller to hold a supply of paper, the front roller on which to roll up the record, the top plate holding the magnet points, and the roller, which gives the time movement to the sheet. This top roller is a series of grooved wheels, one for each magnet point. The importance of this part of the device is obvious, since the movement of the sheet must be absolute and exact or there will be inaccuracy in the time record. This roller is actuated at the rate of one revolution an hour by a powerful clock movement. This gives the paper four inches of movement in the hour, or one inch for every fifteen minutes. A line running on a one-minute schedule will therefore show fifteen cars or prick marks to the inch, a five-minute schedule three to the inch and so on. A break of two inches would denote a stoppage of thirty minutes at that point. When the superintendent sees a regular, unbroken showing of points on the record he knows that the cars are all doing their full work.

To Run Ships by Electricity.

Chicago Record: Ten years ago a well-known professor of electrical engineering in a leading American college, who had tested almost every form of the storage battery then made, was asked whether he saw any future for the accumulator. His reply was: "The more I see of storage batteries the more I am convinced that they are impracticable, and that they can never be made commercially valuable." Today the storage battery is working its way into almost every branch of electrical work, and, if certain promises which recent improvement in construction seems to give are fulfilled, it is on the eve of its crowning triumph recognition as a practicable motive power for the commercial propulsion of street cars. Many electrical engineers have just as little faith in the possibility of driving ships across the Atlantic by electricity as the college professor had as to the future of the storage battery, but on the other hand inventions are now being perfected which will effect an extraordinary and almost incredible revolution in ship propulsion. Those who know what is being done in this field, which is not yet made public, realize that to name ten years as the period within which electric ships will cross the Atlantic is to allow a very liberal margin. This will probably be affected by machines giving an enormous economy of power, but there is already talk of carrying out the idea with existing appliances. A. S. Hickley, a pioneer in American electric launch construction, holds that the reason vessels crossing the Atlantic make such comparatively slow time is that they cannot drive their propellers fast enough with the amount of power behind them without shaking the boat to pieces. He proposes to put in an ocean ship a powerful engine, say a compound-condensing engine of slow speed type, connected to a multi-polar generator giving say 500 volts potential. Directly on the shafts of the propellers he would put the armatures of the propellers which are to drive the propellers. These can easily be made to run from 600 to 900 revolutions a minute, whereas the engine is probably making only sixty or eighty. In this way not only would there be a considerable acceleration of speed, but the vibration of the ship would be almost entirely prevented and the dipping in and out of the water of the propellers in rough weather would not affect the main engine and jar the vessel from stem to stern as it now does.

Electricity in Congress.

A plan has been proposed, though it may not be adopted, to facilitate voting and eliminate the long and tedious oral yea and nay call. This plan contemplates running electric wires from the member's desk to a large indicator placed in front of the speaker, where it may be seen readily, so that when the yeas and nays are ordered a vote may be taken in a few moments by pressing the buttons. In this way members could show whether they are paired or not, or whether they vote yea or nay, and all this could be done in a few seconds, whereas it now takes thirty or forty-five minutes to finish a roll call. If the new electric system for calling the pages works well it will be the forerunner of further utilization of electricity in the conduct of the house and senate. Another innovation will be a separate and special telephone directly connecting the house with the senate for speed and certainty in communication between the two bodies. Heretofore the only telephonic communication available was had through the central exchange down in the city. An improvement still more useful will be provided in the shape of a continuous bulletin of the proceedings of both houses, to be displayed in the lobbies, giving in brief outline the current proceedings at frequent intervals after the fashion of telegraphic bulletins from national political conventions. From it representatives and senators will be able to see at a glance what is going on in the other co-ordinate body and thus save time and effort.

Buttons for Statesmen.

Another radical innovation will be made in the method of calling pages to the desks of congressmen. Hitherto, ever since congress has been in existence, the members have called up the page boys by lightly clapping their hands together, a method open to serious criticism and often the cause of much inconvenience. When a considerable number of members happened to clap their hands at the same time the ordinary confusion of the house chamber was increased tenfold and often an eloquent orator on the floor could not make himself heard above the din. Many a blushing new member, too, while making his maiden speech, has mistaken the fusillade of handclapping for applause, and has suffered much chagrin on discovering that it was not. There are thirty-three pages in the house, and these young gentlemen, in an exciting session, often become mingled in the crowd of statesmen clamoring around the speaker's desk, getting in their way and adding to the general disorder. All these annoyances will now be obviated. Electric wires have been strung from each member's desk to an indicator and call board in the cloak rooms, similar to those in hotel offices, and each desk will be supplied with a push button for starting the current; so that all a member will have to do when he wants a page will be to push the button.

Telephones for Moving Trains.

Chicago Record: A telephonic attachment for railroad use has been introduced which will greatly increase the safety of railroad travel. At present, the device is designed for communication only between the conductors and the nearest station, but the intention is to so modify it that it can be used by passengers traveling on express trains. By this arrangement the telephone can be called into requisition by the train dispatcher in addition to the telegraph dispatching wires, while, on the other hand, the dispatcher can be called by any station or block along the line in a second. An ingenious part of the equipment is what is called a hanging set, which is to be carried in every baggage car and caboose. Should the train come to a standstill through a block, wreck, or any other interruption, the hanging set, consisting of spliced wires on the pole line is dropped on two wires on the pole line alongside the track. This gives as perfect connection as if the telephone were in a private office, and it will work along every foot of a railway line. In case of a wreck the telephone is instantly available, the dispatcher is called and orders are sent direct to the spot in return.

Pleased with an Electric Launch.

When the Russian squadron came over to participate in the naval display in New York harbor and Hampton Roads on the occasion of the Columbian festivities the grand duke Alexander, who was with the fleet, took a great fancy to the electric launch that had been provided as part of the equipment of the United States ship New York. Through the courtesy of this government the grand duke was permitted to purchase this launch. Grand Duke Alexander took his new acquisition back to Russia and it proved to be a source of envy to all who saw it, not excepting the emperor himself, who has through the naval attache of the Russian embassy at Washington, invited bids for an electric boat.

To Hatch Eggs by Electricity.

The idea of an electric incubator has long been looked upon by poultry farmers as too theoretical to be of any real service. Herr Ott Schulze, who has been steadily striving to perfect such a system in Germany, has, it is said, at length succeeded in constructing an apparatus, operated electrically, which overcomes the ordinary difficulties of the artificial hatching of chickens. The apparatus is easily manipulated and needs a small but constant supply of current. Automatic attachments regulate both temperature and moisture, the adjustment working with such delicacy that a temperature within one-tenth of a degree of the normal heat of incubation is noted. From 90 to 100 eggs are hatched at one time.

Electricity Superseding Steam.

The Illinois Central Railroad company will, inside of eighteen months, change the motive power on its suburban service from locomotives to electricity. It is not generally known that the Illinois Central fully intended to use electricity in its world's fair service, which was installed in May, 1893. The engineers of the road making a thorough examination of the various systems then in use in the United States and in Europe, reported the feasibility of the project, but it was found that the work could not be completed in time.

Comfortable Telephone Booth.

An extension of the telephone-booth idea is to be made in Copenhagen. A company of leading Danes has been formed with an adequate preliminary capital to erect in all the public squares of the city telephone kiosks, which will be capacious and elegantly fitted up. Here, besides the telephone, citizens will have access to the daily papers, can write letters, receive messages, have their shoes polished and generally make themselves comfortable.

FACTORYVILLE.

Prof. G. A. Transue and family, of Pottsville, are here to spend the holidays with Mrs. Transue's relatives.

Prof. Whitford and family will spend part of the vacation at Brookfield visiting relatives.

After a sickness of four months, Henry Mathewson died at his home on Main street at 2.15 Friday morning. He was aged 73 years, 6 months and 12 days. Funeral services will be held today (Monday) at his late residence on Main street at 10.30, Rev. M. J. Watkins, of the First Baptist church, officiating

S. N. Simrell has accepted a position at Scranton, to take effect April 1.

A fine new organ now graces the hall which the ladies of the G. A. R. occupy.

A birthday party will be given at the First Baptist church New Year's eve under the auspices of the Ladies' Aid society of that church.

MOOSIC.

A number of the young people from this place spent Saturday evening at the opera in Scranton.

E. J. Price was in Scranton Saturday on business.

E. J. Foulks has gone to Buffalo, N. Y., to spend the Christmas holidays among friends.

The Bonta Plate Glass company paid their employes on Friday.

The Methodist Episcopal Sunday school will hold their Christmas festivities on Christmas eve.

Charles Johnson, C. R. Frasson and James T. Brown were out on Saturday evening. Both gentlemen were coming towards each other from opposite directions and as it was raining were running, the consequence was they collided. Mr. Brown had to have three stitches taken in his eye and Mr. Johnson had only a scalp wound.

AVOCA.

Jacob Webster, of South Main street, has received a choice selection of wreaths and various designs of holly and evergreen which he will dispose of at reasonable prices.

Thomas Graham, of Scranton, spent Sunday at the residence of his mother in the North End.

An infant child of Mr. and Mrs. D. Donahoe, of the North End, was buried yesterday. Interment was made in St. Mary's cemetery.

The marriage of Miss Mary Maloney, of this place, and Michael O'Hara, of Scranton, is announced.

People who are with us to spend Christmas: Hugh Jennings, of St. Bonaventure's college, Allegany, N. Y., and his brother, Joseph, of Philadelphia; James O'Brien, student of St. Michael's college, Toronto; Miss B. Quinn, teacher in the public schools of Elmira; Misses Annie Kearney and Mary O'Boyle, of New York city; John Whalen and Michael Munley, students at St. Michael's college, Toronto; Mr. and Mrs. Thomas Webster and son, of Carbondale.

A meeting of the ladies of St. Mary's congregation was held yesterday afternoon and each lady contributed the amount solicited and the number of articles contributed to the bazaar. The affair promises to be a grand success, socially and financially.

If the Baby Is Cutting Teeth

Mrs. Winslow's Soothing Syrup has been used for over Fifty Years by Millions of Mothers for their Children while Teething, with Perfect Success. It Soothes the Child, Softens the Gums, Allays all Pain; Cures Wind Colic and is the best remedy for Diarrhoea. Sold by Druggists in every part of the world. Be sure and ask for "Mrs. Winslow's Soothing Syrup," and take no other kind. Twenty-five cents a bottle. ee

HOLIDAY SPECIALTIES

We have a line of

Fancy Rocking Chairs, Tables, Umbrella Stands And Screens

along with our regular line of

Rugs, Carpet Sweepers And Hassocks

And last, but not least, the finest line of

CARPETS in the city.

PRICES ALWAYS THE LOWEST.

J. SCOTT INGLIS

Sign Wire Front. 419 LACKAWANNA AVE.

PITTSTON.

[The Pittston office of the Scranton Tribune is located at No. 5 William street, where all advertisements, orders for job work and items for publication will receive prompt attention. Office open from 8 a. m. to 10 p. m.]

This morning as Michael McHale, of Cork Lane, was walking along the Delaware and Hudson tracks at that place a train came towards him and he stepped from one track to another and was walking the edge of the ties when the 11.15 Central train came along and struck him, knocking him over to the side of an embankment and seriously if not fatally injuring him. The train was stopped and picked him up in an unconscious condition and carried him to Avoca, when an ambulance was sent for and he was taken to the hospital and his wounds dressed. Mr. McHale boarded at Duryea and came down to his home in Cork Lane Saturday night. He is about twenty-two years of age and was going to his boarding house when the accident occurred.

Mrs. Mary Nealon, wife of Philip Nealon, of Cork Lane, died Saturday morning about 8 o'clock from general debility. She is survived by her husband and several grown-up children. The funeral will take place this morning at 9 o'clock with a high mass in St. John's church.

The Entis social club held a meeting yesterday afternoon and elected for the next six months the following officers: President, Joseph Cohen; vice-president, Thomas Lahey; treasurer, M. V. Quinn; secretary, John V. Dempsey; trustees, William Gaughan, John Golden and M. Battle; investigating committee, Luke Connors, Frank Hanahoe, and John Gordon.

The teachers in the different schools throughout the city will be paid today by Controller Hagadorn for the month of December.

Thomas E. Shea and his excellent company will open a week's engagement in Music Hall this evening.

William Pace, a bright young man of Sebastopol, who has been studying law in the office of W. I. Hibbs, esq., has passed the examination for entrance to the bar and will be formally admitted on Jan. 13.

Joseph Fitzpatrick and John Mangan, who have been away to college, are home to spend Christmas with their parents in this city.

Pittston Business Directory.

FOR FIRST-CLASS PLUMBING CALL on Wright & Co., 97 South Main street. A new range for sale or exchange; also second-hand household goods, bought or sold.

TUNKHANNOCK.

R. M. Piatt is laid up with a broken ankle, the result of a fall.

Colonel R. Bruce Ricketts, of Wilkes-Barre, made information before Justice Kutz to the effect that certain parties had been stealing timber from his tract near Noxen, whereupon warrants were issued and one of the offenders was captured. The officers failed to locate the balance of the gang, who are said to be a bad lot to deal with, but it is expected that they will be bagged within a short time. Colonel Ricketts foots up his loss by these timber thieves to $1,300.

Coal traffic on the Lehigh Valley is slacking up somewhat, but the eastward shipments of freight are immense. The principal commodities just now are grain, iron ore, lumber and flaxseed.

The spool works are running nights this week. The mill will be closed next week to allow of inventorying and making some changes in machinery.

Several Lehigh Valley employes, including engineers and conductors, have been discharged recently for non-payment of debts. One engineer, who has no family, and whose salary is over $100 per month, is said to have contracted small debts to the amount of $1,000. The company is annoyed by having complaints sent in continually, and decided to get rid of the delinquents.

Dr. W. E. Dornsife is home from Philadelphia to spend the holiday vacation.

Frederick Franks, of Vose, is reported critically ill with pneumonia and little hopes for his recovery are entertained.

KEYSTONE.

W. C. Gretzinger, registrar of Bucknell university, was looking after Bucknell interests at the academy a few days ago.

Professor Hulley delivered an address before the Wyoming County Teachers' institute at Tunkhannock, last Thursday.

Mid-term examinations were held last week.

Professor Whitford and family expect to spend the holidays in Brookfield, N. Y., the home of his father.

Miss Race, who has been sick for several days, is reported better.

The concert given in main chapel last Wednesday evening for the benefit of the Young Men's Christian association was well attended and quite a large sum was realized. The local talent was admirably assisted by Walter W. Kiple, violinist, of Scranton.

The prize-speaking contest which was to have been held in main chapel last Friday, December 20, was postponed until February. The vacancy left by the withdrawal of the former contestants has been filled by new appointments. Those who are appointed for the contest in February are as follows: H. Watson, C. E. Wilson, J. F. Walter, E. N. Manchester, J. B. Tiffany, C. E. Cook, S. B. Newton, C. Mathewson, M. W. Reynolds and T. W. Evans.

Dr. Groff, president of the state board of health and professor of biology in Bucknell university, lectured at the academy Thursday. His subject was, "A Glimpse of Modern Laboratory Work."

Relief in Six Hours.

Distressing Kidney and Bladder diseases relieved in six hours by the "New Great South American Kidney Cure." This new remedy is a great surprise on account of its exceeding promptness in relieving pain in the bladder, kidneys, back and every part of the urinary passages in male or female. It relieves retention of water and pain in passing it almost immediately. If you want quick relief and cure this is your remedy. Sold by C. M. Harris, druggist, 125 Penn avenue, Scranton, Pa. **

Scrofula Broke Out

On our boy when a baby. We gave him much treatment without avail. Noticing in the papers Hood's Sarsaparilla was recommended for scrofula and blood diseases we gave it a trial. We soon saw a change for the better. He has taken four bottles

Hood's Sarsaparilla

and is now entirely well, hearty and free from all scrofulous symptoms. I have also taken three bottles for nervous headache and catarrh. It gave me great relief." MRS. T. M. SMITH, Ruther Glen, Va.

Hood's Pills cure habitual constipation. Price 25 cents.

Typhoid Fever.

* Rapid Convalescence

is experienced in this slow and dangerous disease, when the patient's strength is properly maintained until the crisis is passed. Don't force the stomach and other organs already weakened by sickness to wear themselves out in a vain attempt to obtain nourishment from improper foods. Feed the sufferer with milk and

Bovinine

that great food product. It is absorbed immediately into the system with the least possible effort on the part of the various organs. Besides making new flesh and blood, it strengthens all of the vital centres, enabling them to expel existing poisons. It is a germicide, and antidotes the fever microbes. In addition, its beneficial effect on the ulcerated condition of the bowels, so common in this disorder, is marvellous.

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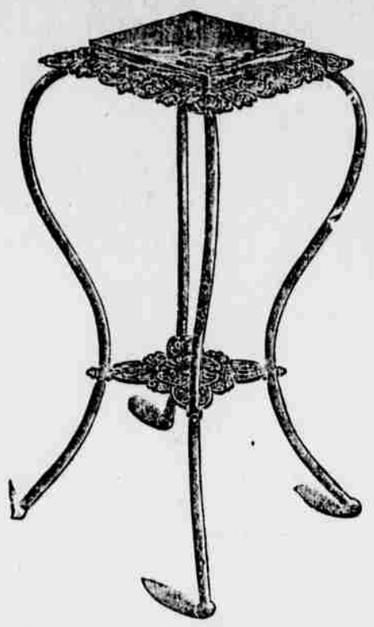

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69 dozen of mixtures, woolen underwear, nice, clean staple goods, at 25 cents each, or 50 cents for the suit.

Boys, from 24 to 34, any size, for 15 cents.

Cloaks, never in the history of this line could you purchase a cloak for the price as this season. Plain facts; the season was unfavorable this year and the manufacturers were compelled to throw their goods upon the market. Prices were no object. We have a hold on these goods.

200 cloaks, we don't claim they are sylish but they are good for this cold weather, and when you get one for $2, any size from 32 to 42, in black blue only.

We have some stylish coats also, but style always costs something, which we will sell you in black blue or any other color, short coat, for $4.99.

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