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FROM HORSE CAR TO THE TROLLEY

sition in 1873.

miles an hour

Story of the Wonderful Development in Electric Traction During the Past Twenty Years.

PASSING OF STEAM TRACTION

Gradual Elimination of Distance Through the Development of the Electric Locomotive-Chicago to New York in Ten Hours.

During the summer of 1887, there appeared in the New York Sun the following facetious news item:

"They tried an electric car on Fourth avenue yesterday. It created an amount of surprise and consternation from Third St. to One Hundred and Seventeenth St. that was something like that caused by the first steamboat on the Hudson. Small boys yelled "dynamite!" and "rats!" and made similar appreciative remarks until they were hoarse. Newly-appointed policemen debated arresting it, but went no further. The car horses which were met on the other track kicked without exception, as was



First Electric Ballway of the World, Berlin Exposition, 1879.

natural, over an invention which factory."

That was less than twenty years 000,000 in the electrification of the first the same time small cars were opercar horses were long ago relegated to Ind., followed by other small roads in the boneyard, if not to the "sausage factory.

"They" have done marvelous things since the increasing knowledge of electricity opened up a new world of achievement, and we have scarcely crossed the threshold. In 1880 the electric car was a dream; in 1890, an experiment; in 1900, a great and wonderful fact which is revolutionizing passenger transportation and will enable buman brings to move from place to place twice as fast as they do at presant.

THE CENTRE DEMOCRAT, BELLEFONTE, PA., JANUARY 10, 1907

a machine to a live circuit by mis- completed. Electricity at wholesale is take and was greatly astonished to see sold to cities and villages along the it begin to rotate. This reversibility route for lighting purposes; electricity of function was publicly demonstrated for power is sold to farmers. Trains for the first time at the Vienna expo- of elegant cars run into Chicago at a speed which would have seemed im-Not until 1879 was the first electric possible a few years ago. Passengers

railway put in operation, taking the wave good bye to steam trains on a current from a dynamo, using a mod- paralleling railroad, which they pass ern motor and carrying passengers. easily. A parlor and dining car is one I'ms novelty was in operation at the of the luxuries which the suburbanites Berlin exposition and was a mile and enjoy going to and from the city, and two-thirds, in length. The train con- the railroad seems a veritable gold sisted of a small locomotive and three mine for its owners.

small cars, capable of carrying twen-'ine horse car has long since disapty people. It reached a speed of eight peared. Will the iron horse, the great steam locomotive, be supplanted also?

Electric Train Just Installed on New York Central Railroad, 1908.

two cars.

The First Electric Railroad.

mum speed of thirty miles an hour.

The first electric car to be operated regularly in the United States was installed by Deft on the Hamden branch of the Baltimore Union Passenger Railway in August, 1886. That was barely twenty years ago. So tric Air Line Railroad company, of great as the skepticism of the public Guicago. This company, headed by a and railway men generally that the contract under which the road was built withheld payment one year so that it might be determined whether the cars threatens to relegate them to a sausage would run. "No one but a knave or a fool would undertake such a thing," at first, but the project considered said a well known scientist at the ago. Today the New York Central time. Scientists sometimes have trouble Railroad Company is expending \$50,- keeping up with the procession. About tnirty-five miles of its system, and the ated by Van Derpoele at South Bend,





Mifchter Druder! - Sot Eich des Chrischttindel ah ebbes Ccheenes brocht? 3ch dent wol, for 3hr hen en Lot Unnerschreitver un wann juscht die Sälft berbun ufbegablt hawe, bann tennt 3hr zufriede fei. Dder ben 3hr perleicht en Angahl bun feller Gort, was am Chrischidag ihr Geld felwert brauche un die anner Beit bum Johr teens hen? 3ch hab mir fage loffe, baß es fo Leit gebt.

Wann mer felwert nir ju geme braucht, dann is es net fo fclimm, wann mer ah nir friegt. Awer wann mer ebaut en Duted Brafente tabfe foll for nig un awer nig, dann is net piel Gatisfätichen brin. Der fegt wol, gewe war feliger as wie nemme, mir fcheint es awer, daß en rechter Schlaumeier feller Spruch gemacht bot ober Gell fennt ich ab ferrig bringe, wann ich en Barl voll Golbftider hat. Umer

Um Owed noch em Chrifchtbag ware mer beijamme in's hanneberger's Stohr. D'r alt Dichoh hot en neie Peif geschmohtt. "Uha," fag ich, "en gerothe," fegt er, "awer ich hat fe biel beffer un ab viel billiger felmert tabfe tenne. Die Beif tofcht mich grad geh Dhaler, denn fo biel hab ich gespendt an meiner Dochter ibre brei Rinner un do fen fe dann getumme un eens bringt wad un des britt en Mätichbar. 3ch hab ab noch ausgefunne, daß mei Alte

macht juscht Spaß am Chrischtbag, wann's ah dichtig Schnee hot. 2Bie 3hr fehnt, hab ich noch viel Schlitte do. 3ch tann fe verleicht später noch vertahfe, awer net ju Feierdags=Breife, fell verfteht 3hr ab? nee, ich tann em 000 Dichoh net recht gewe. Loft die Leit tahfe so viel as fe welle, niglich oder unnit, wie mehner asbe beffer. Gell Geld is net verlore, es frieat's allemol wieder ebber." - D'r Bill hot gelacht un dann gefaht: "Du hofcht bo grab ebbes gefaht vun ere Drumm. Rannicht Du Dich erinnere, daß ich leticht Johr ah eene tahft hab for mei fleener Bub? Un ich will's ah zugewe, daß ich derbei an mei Schwärmutter gebentt hab. Ge hot mich ab verstanne un mir en Blid geschmiffe, was gesaht bot: Dich fir ich for fell. Wie ich am nächfte Omed heemfumme bin, bo hot b'r Buh geheult, weil fei Drumm taput war. Un dentt mol, wie fell tumme is! D'r Bub bot welle zum Fenfier naus gude, mar amer ju flee. Do hot ihm die verdollt alt Ber die Drumm biegeschowe, daß er fich brufftelle foll un er is ab richtig dorch d'r Bodbem gebroche. Do hab ich ihm dann am nächste Dag aus em Städtel en horn aus Blech mitgebrunge, was noch viel meh Räcket gemacht hot, wie bie Drumm, un laut ge= nug, daß Alle es ben höre tenne, hab ich gesaht, daß wann ah des horn ver-brecht, ah dann noch funscht ebbes afammefchlage werd. Geller Sint bot

genumme un am neijohr is bie Comarmutter ju ihrer annere Dochter gemuhft, was mich fo gepliehft bot, daß ich meiner Frah en Duff tabft hab!" D'r hansjörg.

FOOLISH GIRLS.

It is enough to make one's heart ache the way foolish girls will pass by splendid, hardworking men and choose insignificant little nobodies for their life's partners, and all because they won't take the trouble to look below the veneer of fine dress.

The man who has an aim in life can't spend all his time in running after girls and going to dances.

He has something better to do. He has to make a name and place for himself in the world.

around street corners and saloons will never be anything better than they are now. The chances are they will be much worse.

Look around at the married women of your acquaintance. Some of them married honest, hardworking men. Others married loafers. Some of them wrecks.



We desire to thank our friends for their patronage during the past year.

We are now going over our whole stock of goods discarding everything that we find is not up to the standard, and we will, if to the standard, and we will, if possible, be better prepared than ever before to furnish our customers with the best of everything in our line.

We solicit your continued patronage, GREEN'S PHARMACY BUSH HOUSE BLOCK Bellefonte, - - - Penn'a,

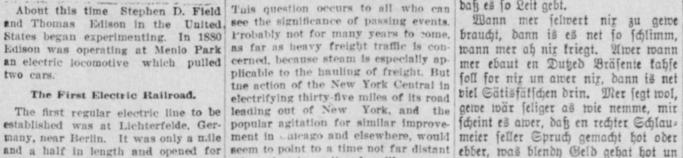
PAINS IN THE BACK

are the first signs of Kidney trouble. Thousands have kidney trouble and do not know it. When the kidneys become affected they in turn will affect the Nerves, causing Nervousness, Sleeplessness, Restlessness and Irritability; too frequent or infrequent Urination; Excessive, Scanty or Painful Urinary Passages. For these disorders take

Krine's Kidney Pills

They are almost specific in their action in restoring these organs to their normal condition; they remove the poisons from the blood, and cheerfulness and good health return. One month's treatment one dollar at Krumrine's Pharma-The young men who are lounging cy; and if you are not benefitted ask for your money back.

BAILROAD SCHEDULE. BELLEFONTE CENTRAL RAILBOAD Te take effect May 29, 1905.						
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ried twenty-six passengers, at a maxi- distant cities and greatly shorten the hours of travel.

being built between Chicago and New funicht nothwennig braucht, dann is York by the Chicago-New York Elecgroup of practical railroad men, proposes to run limited trains, making not more than three stops, through to New thought fairly takes one's breath away soberly seems practical enough, and certainly is "a consummation devoutly to be wished." The work of grading began Sept. ? near LaPorte, Ind.

As the new road will be an air line. with few curves, the route surveyed Die Beif, en anneres en Badelche Duis 160 miles shorter than the Pennsylvania "Short Line", and 230 miles shorter than the Lake Shore and bes Gach labft hot. Steft e Gefchäft! are happy wives, others miserable New York Central, each of which runs fegt als d'r alt haufirer. Es merd alle trains covering the distance in eighteen hours. Taking into consideration the 30hr ärger. Bie ich noch en fleener shorter route of the Air Line, this is equivalent to a fourteen-hour service io Each am Chrischtbag. Mir Rinner io Each am Chrischtbag. Mir Rinner With low grades, a straight track and ben als en bar Ebbel friegt, en bar Rift no grade crossings, the seventy-five un en Stid Ruche. Alleweil fage eem naties an our average necessary to : bie Rinner, mas fe hame welle. 3ch ten-hour service ought easily to be meen, die gang Brafentemacherei merd ful bome and a happy, smiling wife maintained. Even on the first class imerdhu. Es werd viel gu viel Gach steam roads of today ninety miles at hour is not uncommon for short dis Ginner mit en for Slehde fola mo fe tances. The Scientific American of Feb. 18. 1905, speaking editorially of the New ben, as wie reiche Rinner mit eme gange bork Central experiment, says, "The haufe Fanghtram."-"Gell glabb ich success of this installation, of wnich feiwert," fegt b'r Benich. "Umer log there can be no doubt whatever, marks boch bie reiche Leit fo Cach tabfe, bo= the first step in the gradual substitution of the electric for the steam locomotive in the operation of long distance express trains." The Chicago-New York project may be regarded the feller. "Die Beite, mo bie fleene Buive second step. Mr. Sprague himself says that speed leere Gigarbar, too fe dann große is "a matter of finance." "What then Rnopf an die Geite genagelt un en will determine the future?" he asks. "Chiefly the financial factor, as it must the future of any other great industrial problem. When savings in operation ober en Automobil, mas in b'r gange and the increased return for traffic Club rum fahrt, wann es ufgezoge will more than pay a fair dividend on merd; oder funfcht ebbes bun feller Urt money invested for electrical equip- hame. En Drumm ober en horn merd ment, will trunk lines be operated by jufcht getabft, wann en Schwärmutter electricity." Professor Charles P. Steinmetz, one of the greatest authorities on electricity, is quoted as saying, "There is no limit to the speed that may be developed in electric traction-that is, there is no limit up to 150 or 200 miles in the whole world less than sixty an hour. Higher speed than that the car wheels could not stand. They would fly to pieces from centrifugal motor cars. In 1905 there were nearly force. Not only can a speed of 120 thirty thousand miles of electric track miles an hour be maintained on a miles an hour be maintained on a train equipped with electricity, but in

traffic in May 1881. The trains car- when electric railroads will connect hot es afforde fenne, freigiebig zu fei. Chicago to New York in Ten Hours. wann mer fich weh dhu muß, ich meen, In fact such a railway already is wann mer fei bar Dhaler for ebbes

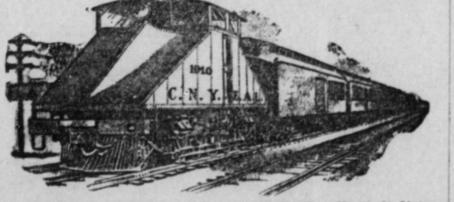
tee große Geligteet brin. 1 ork or Chicago, in ten hours. The Chrifchitindel!" - "Do hoicht's grad

Born in Old Vermont.

Brandon, Vt., ran a toy motor mounted Huron, Mich.; Scranton, Pa., and

Edison Electric Locomotive Operated Experimentally at Menlo Park, 1880.

When in 1834 Thomas Davenport, of Windsor, Canada: Appleton, Wis.; Port on wheels on a small circular railway. Montgomery, Ala. In the autumn of



One Hundred Mile an Hour Electric Train, Chicago-New York Electric Air Line

the modern electric railroad with ffs 1884 Frank L. Sprague, whose name possible speed of over one hundred is inseparably connected with electric miles an hour was born.

In 1838 Robert Davidson, of Aberdeen, Scotland, built an electric locomotive which actually reached a speed of four miles an hour on the Edinburgh-Glasgow railway. Nine years later Professor Moses G. Farmer operated an experimental car which car. only about one hundred motors and ried two passengers at Dover, New Hampshire.

Then the United States congress became interested. By special grants Professor Page of Smithsonian institute was aided in the construction of several forms of motors. One of them was used as a locomotive and, driven by a battery of one hundred Grove elements, was tried April 29, 1851, on a railroad running from Washington to Bladensburg. A speed of nineteen miles an hour was developed, so great that it destroyed the batteries.

the motors were crude and the source of power a primary battery. The development of the wonderful modern dynamo was necessary before electric railroading could become a commercial success. The first great step was in 1860, when an Italian named Pacinot. of electric railroading was assured and ti invented a continuous current dy. namo. Three years later the first adopted the new motive power; horse practical commercial machine for con- cars became things of the past; intinuous current operation was made by Gramme.

Still the modern electric car was inpossible. The "reversibility of func- scored. Electric interurban lines have tion" had yet to be discovered, invol- been money makers from the start. wing electrical transmission of energy through two machines, one driven by power and generating electricity; the other reversing the operation, receiv. engo Electric railway (the third-rail

traction, began to attract attention with his motors.

Twenty Years of Achievement.

At the beginning of 1887 there were miles of electric railroad track, and in the United States alone.

This change was not accomplished without opposition, discouragement and financial difficulties. Mr. Sprague hinself, who was so potent a factor in working this change, has told the story of his first important contract. In the spring of 1887, the Union Passenger Railway company of Richmond, Va., engaged him to build an electric railway. The first car was run out one night while the skeptical people slept, Numerous other experiments fol- to make sure it could climb the hills. lowed, all commercial failures because it started out in a blaze of glory and ignominiously was towed back again by four big mules. But Sprague persisted until on Feb. 2, 1888, in a drizzling rain, the road opened for business.

From that time forward the future events moved rapidly. City after city terurban roads began to gridiron the country everywhere, and in each ina commercial success was stance The greatest development has been in the east; but the west is not far benind. The Aurora, Elgin and Chi-



First Regular Electric Railway in United States, Baltimore, 1886.

my opinion it is an entirely feasible scheme from the commercial point of

At any rate, the world seems on the eve of great things, and no scientist dares say today as was said twenty years ago, "a man is a knave or a fool." The attitude of the American public is one of faith and expectancy, best expressed by a recent remark of an old lady in her last sickness:

"I don't want to die," she said, "I want to see what they are going te do."

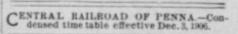
bether reversing the operation, receiv. ing electricity and developing me-chanical power. Like many other important discov. eries, this is said to have been the re-sult of accident. A workman coupled

Rinner mit en bar Rletiche Sols, wo fe mit fpiele tenne, en biel areeftere Freid berfor is es jo boch gemacht. Die Stohrhalter welle ab lewe, net wohr, hanneberger ?" - "Ei, uftohrs," fegt als tumme fen un ben gefrogt for en Bagelche gemacht ben, fen verbei. nau welle fe en Infchein un en Roib Cars,

Marry the worker and help him build up a successful career. Let him come home at night and find a cheerwho is proud of his successes and sympathetic in his reverses.

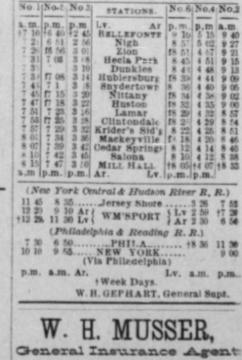
But don't deliberately walk into a life where failure is bound to come. Don't tie yourself to a man for whom as time goes on you will be able to feel neither love nor respect .- St. Louis Republic





READ UT

READ DOWN



Wet feet always travel the road that ends in the hospital, and it's usually a short trip.

We've the best Rubbers madewe sell no other sort, for poor Rubbers are worse than no Rubbers at all.

Every Man, Woman, and Child

should have a good pair of Rub-

bers at this season of the year.

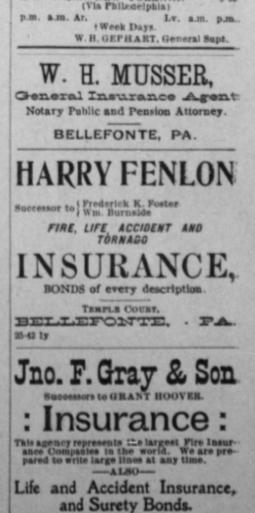
RUBBERS

From the Little "Tot" to the head of the family, there's a pair of good Rubbers here, for all.

Mother wants Comfort, Sister wants Style, Father wants Durability, while the younger feet want protection.

We are showing every desirable style. Our Rubbers fit perfectly, and our prices are as low as the quality will allow.

MINGLE'S SHOE STORE BELLEFONTE, PA.



Call on or address us at

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Those Who Deliberately Walk Into Matrimonial Failure.