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AEBIAL CABLE CARS

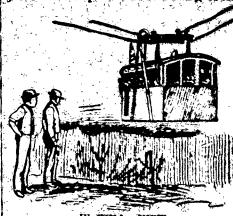
CARRY PASSENGERS OVER TH TENNESSEE RIVER.

Das of the Romarkable Sights at Knoxville-Cheaper Burial Service-New Electric Developments - Works



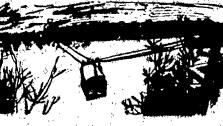
WIRE ROPE ranway for passenger car service over the Tennessee river at Knoxville. and which is suspended at a height

-Lowe in our illussome time past passengers being conide by street cars from the center of in the business. the city, and here is a power house where are two twenty-horse power engines which operate the hauling cable



The tramway cables are each 1% inches in diameter, and the length of more than merely to ascertain and the span is 1,060 feet. These cables on the Knozville side are anchored to 12x10 inch oak timbers, 14 feet long. placed behind plank bulkheads. The connecting bars are 13 feet long and Joyce Undertaking Rooms, 14 inches thick, and provision is made for taking up the slack by means of the long threade i screws, as shown in the plan and side view of the anchor. The anchor at the high and, on the opposite side of the river, consists of fron plates fixed in the rock. The supporting cables. each have a breaking atrain of sixty tons. The cable conveying the motive power is one-half inch in diameter and permanently fastened to the car. The car, empty, weighs 1,200 pounds. It has a fourteen foot body and three foot platforms, and is six feet wide by six and one-half feet high. The seating capacity is sixteen passengers. The car is provided with automatic brakes, which stop the car in case the Manufacturers' Supplies, propelling cable breaks or allps on the drum. The up trip takes about three and a half minutes. The descent is made in a half minute by gravity.

An accident occurred on this serial ferry on Sunday, bob. 18, by which one passenger was killed and two others slightly injured. The hauling cable broke just as the car reached the top of the incline, and struck the car with such force as to damage it somewhat, the car then starting rapidly fown the grade until it was atopped by the automatic brakes. When the



at a point about 200 feet above the water, and the eight passengers it contained were rescued by being let down by ropes into a bost on the river.

New Developments in Electrical Research

It has long been conceded that electricity offers a wider field for the ambitious atudent than any other, but even the wildest flights of fancy never reached to such heights as reality shows us in some of the latest discoveries. It is said that we are to have electric power without circuits, and that storage batteries, trolleys and all of the most approved appliances will be reconstructed out of existence. Under the new conditions, a couple of thousand volts passed through the human frame will be esteemed a pleasant sensation; whereas, at present, two thousand will kill at a flash. The wildest ireams of the extremest alchemists lade into insignificance by the side of the possibilities that now loom up

The Action of Massage upon the Museles. 1. Massage, when applied upon a muscle in a state of repose, increases its resistance to work and modifies its fatigue curve by retarding the mani-

shead of us. We are to put our heads in contact with certain appliances and

-presto -our thoughts are recorded

upon paper or transmitted to our

festation thereof. 2. The beneficial effect of maser ze is within certain limits in proportion to the duration of its application. Beyoud these limits there is not obtained any further increase in the production

of mechanical work 3. Massage can hinder in muscles the accumulated effects of fatigue proceeding from the effects of work when not sufficient intervals of rest have been

4. The various maneuvers of masage act with different intensity upon the aptitude of muscles for work Percussion and friction are inferior to petriseage and to mixed massage.

5. In muscles weakened by fasting we can, by means of massage, totally ameliorate their resistance to work

4. Upon mancles fatigued or we used by a course which note, upon the whole missister system, such as prolonged walking, loss of sleep, loss of Manchester, N. H. A girl of that food, excessive intellectual work, etc., fown married, and her adopted mother massage exects a restorative influence gave her furniture, alleer and other which brings back to them their power gifts. More than that she invited the of doing a natural amount of work

upon the phenomena of muscular work and the young people began packing are no longer produced when it is ap- up. When they attempted to take plied upon a muscle in which the cir their wedding gifts the mother-in-law culation of blood has been suppressed. locked them up. Them the daughter Douglas Graham. M. Do in The Popplar Science Monthly.

Premium on Brains. It is becoming the custom in certain The story is told that on a certain factories and constructing establish- occasion, when a company of persons ments to effect premium on suggest was discussing in a prowded room of 350 feet above tions made by employes. Men who sacred subjects and certain prominent the water as it continually handle given machines men, one suddenly exclaimed: "I reaches the south and products often develop labor save should like to meet that blahop of side of the river, as lag ideas and devices, or can suggest Litchileid; I'd put a question to him some improvement in existing appli- that would puzzle him." "Very tration has been in practical use for ances. A sum of money is paid for a well," said a voice out of another corsome time past passengers being con-new idea, and any labor-saving plan ner, "now is your time for I am the veyed thereby to a pleasure resort receives attention and is properly bishop." The man was somewhat back of the bluff on the other side of tosted. In one shipward mearly five startled and taken aback, but presthe river from the city of Knoxville, thousand dollars have been divided be- ently recovered himself and said: The starting point of this mapended tween eighteen men who had con- "Well, my lord, can you tell me the railway is only about five minutes' crived and developed ideas of value way to heaven?" "Nothing easier."

A New Bioctric Device. Among the novelties in electric lightenable the belated sojourner to find colloquy is said to have taken place; arly morning.

Chesper Funerals.

is a good work. If Mr. Straus does no couldn't do sa well." publish what is the rest cost of contemporary burial he will illuminate one of the obscurest subjects with which moderns have to deal. The necessaries are about the same in all funerals, cheap or dear, says Harper's Weekly. A hearse, a coffin, some carriages, some black gloves for bearers, a grave—that short list covers most of the items that society regards as comparatively indispensable. It appears, however, that the bill for furnishing them may easily range from \$25 up to

\$2,500, while other tanto for display, if the mourners happen to have it, may be gratified to the sands as they may ceipts. ers charge too

NATHAN STRATS, much; that hundred-dollar funerals do not really cost more than \$10, and that poor people ought to get their funerals at cost burisls. We siready have undertakers when the natives hold a festival. who nudertake the funerals. What is needed are funeral actorneys who will undertake the undertakers. They the real value of all sorts of caskets, as well as the true worth of undertakers' services. Their province should longer. be to find out what grade of funeral is really desired, and to represent the bereaved in the deal with the undertaker. Of course they should not to in col-lusion either with the undertakers or the easket factories, and it should be ever present in their minds that their business is primarily to protect the bereaved, and not merely to reduce the undertakers' profits by sharing them. It would be as well, or better, if the funeral-attorney business could be carried on in connection with some other vocation, as the care of real estate, or the sale of flowers, thereby lessening the temptation of persons who engage in it to make it improperly profitable. In all cases, too, the attorney's charge should be a fixed sum, bearing some relation, perhaps, to the sout of the funeral, but moderate, and previously ascertained by law or custom.

With the Olive Branch in Ble Mand, During the revolution that happened in France in 1848, when Louis Philippe, the "Citizen King," fied to Paris, climbed a barricade in the Place

Earnestly desiring that the combatants should lay down their arms, he began to speak to them persuasively, but he had only said a few words when the firing broke out again and he fell mortally wounded. The inpricat, whence he was conveyed to the wine hot. palace, where he died next day-June 27.

It is an interesting point that the 8th of February in this year was the centenary of the good man's birth.

Sarat

Manager-I can't use your cantata, professor, but I know a man who has plenty of money, and if he could hear it had buy it-Prof. Spinet (exgerly)-Introduce

Manager-I will; but he's deaf and

Our Higher Education. much at school?

Little Nephew-Yes, indesdy. I'm learning to sit still, an' not talk, an' not make any noise an get up an sit down, an' march, an' lots of things D California and the atmen

young people to live with her. Two 7. The beneficial effects of massage years later there was a family row,

sued for their value. While the case was in court the old lady died, bequenthing the goods to her piece, who continues the fight for their possession.

answered the bishop, 'you have only to turn to the right and go straight showd."

Little Rastus was entirely too fond ng ha reporter's pencil with an electof asking questions, says Harper's tric light at the tip. The little device Drawer, so his father said, and in is convenient, in that it gives sufficient order to shift the burdens which he light to enable the owner to take notes found too great for his uneducated at any time or place without need of shoulders to bear, old 'Rustus sent lamp or candle. It is also useful to the boy to school, where the following the key hole of his door when he is too Little 'Rastus-Wy am de sun weary to see it in the dim light of the brighter'n de moon, 'feaseh? Prof. Johnson-We dun no' fo' shush dat he am, honey. Yer see, de moom's got the night ter light up, an' de san Nathan Strans, who is continually has only got de day. Dat's or powerdevi ing new schemes to benefit his ful night er diffrunce, I tells yer. fell was given out that he is busy now Mebbe, if de sun done tackle de big on a plan for burying folks at cost. It job de moon's got on his hands, be

FROM FAR COUNTRIES.

In Berlin the police arrest people who play the plano in flata after 10 o'clock at night.

England's new torpedo boat, the Hornet, steamed twenty-three knots an hour at her trial spin the other day. The railroads of Holland are tha safeat. There is only one passenger killed per annum, while only four are injured.

London is to have a university that will rival Oxford and Cambridge. the preliminary details for its establishment have been arranged.

The hard times have affected ever the vatican and the expenses of the extent of as many government of the pope are 100,000 additional thou- lire per month in excess of the re-

are to provide. A Paris suggestion is that imprison-Mr. Straus asys ment for life, with a weekly applicathat the undertak- tion of the ost-o-nine-talls, be substituted for the guillotine as a punishment for anarchy.

The burys busys tree of Australia is highly prised by the natives for its seeds, which are used as food. The The truth is that there is a chance for tree bears fruit once in three years. a new profession in connection with and the yield is gathered in January.

The insurance statistics of England show that in case of the deaths of husband and wife, if the wife dies should be expect persons, who know first, the husband services wine years, while if the kimband is the first to die the widow lives for eleven years

JESTS AND JOKELETS.

Maud-Why do you call that ring a war relic? Ethel-I won it in my first engagement.

Little Dot-I just hate sompositions. Mamma-You like to write letters? Little Dot-Yes; but when I get a blot on my composition, I can't draw a ring around it and my it's a kies.

Little Dick-Does wishing with a wish-hone over come tract Little Dot-I winned ten different times and it came true every time. "Did it?" "You, I always got the short end of the bone, and everybody said I wouldn't gut what I wished for, and I never did."

The following dialogue recently took place in the train between Page and Nice: First Passenger-Are you going to Monte Carlo? Second Passouger-Yes, I go every year. First Passenger-I suppose you play a little? Second Passenger -Yas, regularly; once in the morning and once in England, there was much fighting in the evening. First Passenger-And I the streets of Paris. In the heat of suppose you lose something? Senous the struggle, Affre, the archbishop of Passenger-No, I always gain. First Passenger Should you mind telling de in Bastille, bearing in his hand a me what your system la? Second Pasgreen bough as the messenger of senger-Certainly; it is very simple. I play the violoncello and nothing eles.

BITS OF NEWS.

Great Britain is the natural home of 170 different insects of the bee finally. Americans drink tes hot and wine surgents carried him to the house of a sold. The Chinese drink ten cold and

> Fast ocean steamers now arom the ocean at the speed of all but the swiftest passenger trains.

Pennsylvania made bity-seven per cent of the Bessemer steel manufactured in this country last year. The Mexicans propose to revive

their national sport, bull fighting, in the belief that it will tend to decrease drnnkennes :

The family with the largest known pedigree is that of Confucius, which forms the aristocracy of China. Com fucius lived 550 years B. C. It is said that out of forty-two cities

in America, with populations averaging from 200,000 to 500,000 all but one Uncle George-Are you learning are using the electric railway system. From Arizons for three years past has come the estricts carload of American raisins shipped cost. The sesson is shoul of that of Bouthern culturity suited to the caring of re-

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