DESERET EVENING NEWS SATURDAY DECEMBER 18 1909

Street Car Company Spending Half a Million in Betterments.

for reconstruction as well as the building of new lines, such as those on Ninth avenue and Eighth West street. run through the streets from the pits

biant unsurpassed for convenience and run through the streets from the plits where callasting was being done, and the construction department has seen some very busy times. During 1909, up to Nov. 1, there have been 2635 miles of track con-structed; that is, increase in mileage and new rails. In fact, the old sys-tem has been entirely reconstructed, the new line to Murray being included in this. The Ninth avenue line re-guired 31-3 miles of track taying, the essat to K street. As property owners iong the avenue from K to M street where ver the patronage calls for it. Ninth avenue promises to be one of

HE Utah Light & Railway company of this city has made great strides, accomplished installation of new luminous are lamps of this city has made great strides, accomplished installation of new luminous are lamps of this city has made great things during the current. It has been a marked season construction as well as the building of provent of rolling stock. The spring structuring the streets from the pits of track context building of convenience and Eighth West street, and the building of convenience and the streets from the pits of track context building of the new cars which measures of rolling stock. The street is from the pits the company with a housing the values of track context context conducts, the paving of streets and pits with the streets from the pits the company with a housing the street is find the street is form the pits the country. They are of the street is find the street is find the street context walls, capable of housing 140 of the new cars which measures for the street is find the street is the street is find the street is the street is find the street is find the street is find the street is the street is find the street is find the street is increase in miles of track laying. The street is increase in miles of track laying. The street street is and the street is the street is and the street street is a street is a street. The street is is the street is the street is the street is the stree

which use 1,000 horsepower daily. The company has 680 new luminous are lamps placed over the city, the west side being equipped this season, so that the installation is general. The business section will be equipped as soon as the necessary cable can be secured from eastern manufacturers and drawn through the conduits. In addition to the are lights there are \$21,000 incandescent lamps scattered through the city. An important addi-

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hotos by Utah Materials Co

TOP-ONE OF THE EIGHT NEW C AR BARNS. BOTTOM-EXTERIO R OF NEW BARNS.

attractive avenues in the | ing hills, provided the power does not

INCREASE IN TRAFFIC.

the most attractive avenues in the try. The railway company has made the first of the area of the already. The first week week the try is the track, two miles, was built along Ninth South street, from Second to Tenth South street, required 4.4-16 miles of track, two miles, was built along Ninth South street, and relieving the Ashton avenue line of the Sugar Hease cars. The Murray line, seven miles in length, has been entirely result to south street, the tothe the Ashton avenue line of the Sugar Hease cars. The Murray line, seven miles in length, has been entirely result to south street, the tothe the Ashton avenue line of the Sugar Hease cars. The Murray line, seven miles in length, has been entirely result to south street, the tother the double track to Twelfth South street. The poles have been largely removed from the street, the tother the states, as is the case also on the fixed it is the pole of the company heaver the and plenty of that, which insures and plenty of that, which insures and plenty of that, which insures the tother the state of the avent heaver the target and plenty of that, which insures and plenty of that, which insures the tother the state of the tother the state of the sta INCREASE IN TRAFFIC. Tassenger traffic has increased dur-ing 1909 from 10 to 15 per cent over that of 1908, due largely to the hold-ing of conventions here, and the im-mense tourist travel through to the seattle fair. The building up of the northern and eastern sections of the city has greatly increased the road's income, and it is the company's policy to extend lines wherever patronage would warrant it. The Fort Douglas line has been entirely relocated and re-built, with one of the best constructed tracks and road beds to be found any-where. The line to the post from Mt. Olivet cemetery has been discontinued and the track will be removed later. Sixty-five pounds steel is now laid in place of the old 35 and 59 pounds rath much to improvement in comfort of travel. The track extensions for 140 include the extension of the Mur-ray line to Sandy and Bingham Junc-tion. There will be no line to Holda-dy, as Judge LeGrand Young's road is to run down there, and the region is not sufficiently populated to war-rant the building of two roads. It is fourthul also, if any line will be built hours thirteenth East street for two cars yet, as there is nothing alone the proposed line to pay for its main-ten mene. The Uth Light & Railway company

NEW LIGHTS INSTALLED. Improvements in the power line and

SCIENTIFIC MISCELLANY.

SCIENTIFIC MISCELLANY. Another step toward the production of electric plants for the farm seems to have been achieved at Buckenhill, Eng. A wind turbine 24 feet in di-ameter is mounted on a steel tower 75 feet high, about 435 yards from the house and 80 feet above its level, and drives a specially designed generator, with armature running in a vertical po-ellion, adapted to a speed variation of 40 to 1.660 revolutions per minute. The current is conducted by overhead wires from the generator at the foot of the tower to a storage battery of 25 cells in an outbuilding of the house. The bat-tery is divided into two equal groups to cells, and is designed to feed about 100 Goram metallic flament lamps in the lighting circuit, besides ariving a 50-voit motor for working a chaff-cutter, circular saw, and root-pulping ma-chines. The motor is in the shed so yards from the house, connected to the battery by an underground cable. The plant is entirely automatic and a spe-cified also when the wind reaches a certain predetermines velocity. With ball bath, the plant could be neglected for a year without damage from lack oil bath, the plant could be neglected for a year without damage from lack

of lubrication. The apparatus has been in successful operation a few weeks, and has done wood sawing and other work in addition to lighting the house. While she used a hollow wooden ball for the sun a callco ball stuffed with hay would serve as well. On this scale, the sun \$00,000 miles in diame-

chance. The Utah Light & Railway company

tion has been made this fall to the generating plant in the West Temple street station, viz., a second \$30,000 motor-generator, which places the company on Easy street as far as get-ting all the power wanted is concerned There are now two of these monster machines at this station, each generat-ing 1,250 horsepower.

ARMY OF EMPLOYES.

ARMY OF EMPLOYES. The Utah Light & Raliway company has 1,65 employes—374 carmen, dis-patchers and machinists, 57 on the of-fice force, 100 in the line department, 57 in the electrical service department, 58 in the power stations and trans-mission lines, and 381 on the mainten-ance of way and track department. The Harriman interests have expended, it is estimated, \$5,000,000 on the prop-erties of the Utah Light & Raliway company since their acquisition five power company, and the Consolidated Raliway & Power company. The of-ficers are: W. H. Bancroft, president: Parley L. Williams, first vice presi-dent; W. S. McCornick, second vice president; F. H. Knickerbocker, sec-retary; G. S. Gannett, treasurer; Will Brown, auditor; Joseph S. Wells, gen-eral manager; D. A. Honnold, electrical engineer; L. L. Dagron, civil engineer. The directory Includes, in addition to the first three general of-theres, L. S. Hills, W. W. Riter, T. G. Webber, Heber M. Wells, D. E. Burley, and Will Brown.

minutes.

The Commercial Department

of this Bank affords excellent

facilities for those who care to

keep a checking account.

The rubberized leather of a new London factory is said to be made by giving the hides a protective chrome tanning, then filling the in-terstices with rubber. Rabbit, goat and sheep skins become extraordinar-ly tough as well as waterproof, and are expected to be especially valuable for motor tires, miners' boots, and many other purposes.

for motor tires, miners' boots, and many other purposes. In efforts to enforce legislation against smoke from factory chimneys, evidence as to the degree and duration of smokiness has been diffcult to get. as the estimates of witnesses vary greatly. The new smoke thatometer of John Lowden, a Scottish engineer, gives accurate measurement by the color of the smoke. The instrument is a tube having an eyepiece at one end, while the opposite end has two apertures. In front of one of which is a revolving dia-phragm having five circular holes, four of them containing glass tinted to cor-respond to the alwady-adopted stand-ard smoke-scale of Ringlemann. The observer looks toward the windward side at the smoke issuing from the chimney. He sees through the clear sky beyond the smoke, while the clear glass shows a circular patch of the scout of smoke. The diaphragm is revolved until the two holes are equally illuminated. The numbered scale on the instrument gives the number corre-sponding to "light grey," "dark grey," "black," or other shade of the Ringel-mann chart, and furnishes the inspector an exact record of the chimney's per-formance. Why the dream of utilizing the ener-

and has done works, in addition to lighting the house.
When the making of electrolytic iron is fully developed, it is expected that iron objects can be made direct from the ore in its bed, without any necessity of mining. Iron tubes or plates, or plinheads of 1-20 inch; Jupiter, 85, 000 miles, 1-25 inche; Saturn, 74-000 miles, 1-20 inche; Saturn, 74-000 miles,

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