DETAILS OF LOCOMOTIVES EXHIBITED AT THE WORLD'S COLUMBIAN EXPOSITION.-SECOND ARTICLE.

Illustrations and principal dimensions of these locomotives are shown on preceding pages.

Explanation of Table.—The first line of the heading in each column refers to the first line of data for each engine; the second line for the second line of data, and so for the four or five lines of heading in each column.

| Boiler, type. Boiler, material in barrel. | Tubes, material. Tubes, number. | Firebox, width. | Material, inside of fire- box. | Crown plate stayed | Wandan waight amuty | |
|--|-------------------------------------|--|---|--|---|--|
| barrel. Boiler, thickness of barrel. | Tubes, diameter out- | Firebox, width. Firebox, depth. Water space, width. Material of outside shell of firebox. Thickness of outside | box. Thickness of firebox. Material, firebox tube | with— Diameter and height of | Tender, weight empty. Journals, tender axles, size. | Tender, fuel capacity Tank, water capacity Wheel base, total, en gine and tender. |
| Boiler, kind of horizon- | side. Tubes, length over tube | Material of outside shell of firebox. | sheet. Material, smokebox | dome. | Blast nozzle, kind. Blast nozzles, diame- | gine and tender. Total length of engin |
| tal seams. oiler, kind of circum- ferential seams. | plate. Firebox, length. | shell of firebox. | tube sheet. Thickness of to be sheets. | Working steam pres- sure per square inch. -Kind of grate. | ters. | and tender over all. |
| Extended wagon top Steel | Charcoal iron 246 | 33¼ in. 70¼ in. F.; 62¾ in. B. 3½ in. | Steel All % in. | Radial stays, 1½ in. diam. 30 in. diam.; 24 in. high _180 lbs. | 33,000 lbs. 4 × 7 in. Single | 7 tons 3,800 galls. 49 ft. 1034 in. 59 ft. 434 in. |
| Triple riveted butt | 2 in. O. D. 13 ft. 8 in. | 3½ in. Steel | Steel Steel | 180 lbs. Rocking | Single $5 \times 5 \%$ in. | 49 ft. 1034 in. 59 ft. 434 in. |
| Double riveted lap | 1081% in. | å in. | 1½ in. | | | |
| Extended wagon top Steel | Steel 250 | 41¼ in. 69 in. F.; 60 in. B. | Steel All % in. | Radial stavs, 1½ in. diam. 30 in. diam.: 16 in. high | 34,000 lbs. 4½ × 8 in. Variable | 5 tons 4 000 galls. |
| % in. Triple riveted butt | 2 in. O. D. 10 ft. 9 in. | 31/4 in. Steel | Steel Steel | Water tubes with pull-out | Variable | 47 ft. 61/4 in. |
| Double riveted lap | 1201/g in. | % in. | 1½ in. | bars | *************************************** | 58 ft. 6 in. |
| Extended wagon top Steel | Charcoal iron 272 | 33¼ in. 82¾ in. F.; 72¾ in. B. | Steel | Radial stays, 1½ in. diam. | 34,000 lbs. | 6 tons |
| 54 in | 2 in. O. D. | 3½ in. | Sides, 15 in.; Crown and B., 36 in. Steel | 30 in. diam.; 20 in. high _200 lbs. | $^{4\frac{1}{4}} \times 8$ in. Variable | 4.000 galls. 50 ft. 634 in. |
| Triple riveted butt Double riveted lap | 12 ft. 8% in. 120% in. | Steel. % in. | Steel ½ in. | Rocking | | 63 ft. 1/4 in. |
| Wagon top Steel | Iron 227 | 33% in. 75% in. F.; 61% in. B. | Steel is in. S.; % in. B. and Crown | With bars and 1 in, bolts 29 iu, diam.; 24 in, high | 37,000 lbs. 41/4 in. diam. × 8 in. | 6½ tons. |
| 18 in. | 2¼ in. 12 w. g. | 3 in. S.: 31/2 in. B.; 4 in. F. | l Steel | 160 lbs. | Single 4¾ in. | 3,700 galls. 49 ft. 5½ in. 59 ft. 10½ in. |
| tt, with straps in, and ut. Double riveted lap | 13 ft. 6 in. 120 in. | Steel | Steel | Cast-iron rocking | 194 111. | 59 Tt. 10% In. |
| Straight Steel | Iron | 41½ in. | | | 37,000 lbs. 4¼ in. diam. × 8 in. | 61% tons 3,700 galls. |
| % in. | 272 2 in. 12 w. g. | 68½ in. F.; 56 in. B. 3½ in S. and B.; 4 in. F. | Steel in. S.; ¾ in. B. and Crown Steel | 180 lbs. | Double | 48 ft. 111/2 in . |
| Butt, strips in. and out. Double riveted lap | 12 ft. 1 in. 126 in. | Steel | Steel | Water tube and pull bar | 3¼ in. | 60 ft. 41/2 in. |
| Extended wagon top | Iron 242 | 42 in. | Steel | Radial stays, 1 in. diam, 29 in, I. diam. × 26 in. high 170 lbs. | 34,000 lbs. 4½ × 8 in. | 7 tons 3,500 gails. |
| Steel % and % in. itt, with double covering | 2 in. 14 ft. 4 in. | F., 64 in.; B., 55 in. 3½ in. B. and S.; 1 io. F. Steel | % in. Steel Steel | 170 lbs. Rocking | 1/4 × 8 in. S ngle 5 in. | 52 ft. 2 in. 59 ft. 6 in. |
| rips Double riveted lap | 107% in. | | 1⁄2 in. | | | 59 ft. 6 in. |
| Belpaire | Iron | 42 in. | Steel | Stays, 15 in. diam. 27¼ in. inside; 27½ in. high 165 lbs. | 30,000 lts. | 7 tons 3,480 galls. 48 ft. 3 in. |
| Steel ½ and & in. tt, with double covering | 2!7 2 in. 11 ft. 6½ in. | F., 60 in.; B., 48 in. 3 in. Stoel | % in. Steel Steel | 165 lbs. Rocking | 41/4 × 8 in. Single 41/2 in. | 48 ft. 3 in. 57 ft. 5 in. |
| trips Double riveted lap | 84 in. | | ⅓ in. | | | |
| Belpaire | Iron | 33% in. | Steel | Stays, 1 in. diam. 29 in. inside; 28 in. high | 32,000 lbs, 4¼ × 8 in, | 7 tons 3,850 galls. |
| Steel | 236 2 in. | F., 71¼ in.; B., 62¼ in. 3½ in. B. and S.; 4 in. F. | S. and B., & in.; Crown, % in. Steel | 29 in. mside, 28 in. mgn | Single | 47 ft. 91/2 in. |
| fe and % in. itt, with double covering trips | 11 ft. 10½ in. | Steel Steel | Steel | Rocking | 5 m. | 58 ft. 6 in. |
| Double riveted lap | 121% in. | | F., ½ in.; B., % in. Steel | Ralmaire stave lin dia | 35,400 lbs. | 8 tons |
| Belpaire Steel | Iron, No. 11 W. G. | 32 in. 76½ in. F; 73½ in. B. 3½ in. S. and B.; 4 in. F. | S. and B., $\frac{56}{16}$ in; C., % in. | Belpaire stays, l in. dia. 21×34 in. 180 lbs. | 414 × 8 in. Single 434 in., 5 in., 514 in. | 8 tons 4,000 galls. 52 ft. 34 in. 61 ft. 8 in. |
| % in. Quadruple riveted Double riveted | 2½ in. 13 ft. 10 in. 114 in. | Steel 1/2 in. | Steel % in. | Rocking | 4¾ in., 5 in., 5¼ in. | 61 ft. 8 in. |
| Belpaire | Iron, No. 11 W. G. | 32 in. | Steel | Belpaire stays, 1 in. dia. | 35,400 lbs. | 8 tons |
| Steel - | 208 214 in | 71 in. F.; 68 in, B. 3½ in. S. and B.; 4 in. F. Steel | S. and B., As in.; C., % in. Steel | 31 × 34 in. 180 lbs. | 4¼ × 8 in. Single | 4,000 galls. 49 ft. 1134 in. 60 ft. 14 in. |
| on in. Quadruple riveted Double riveted | 2½ in. 11 ft. 7½ in. 114 in. | Steel 1/2 in. | Steel % in. | Rocking | 4% in., 418 in., 5% in. | 60 ft. ¼ in. |
| Belpaire | Iron, No. 11 W. G. | 32 in. | Steel | Belpaire stays, 1 in. dia. 31×34 in. | 35,400 lbs. | 8 tons 4,000 galls. |
| Steel | 212 2 in. 11 ft. 1 in. | 67 in. F.; 50 in. B. 3½ in. S. and B.; 4 in F. | S. and B. 15 in.; C., % in. Steel | 180 lbs. Rocking | 4½ × 8 in. Single 4½ in., 5 in , 5½ in, | 48 ft. 134 in. 58 ft. ½ in. |
| ्री in. Quadruple riveted Double riveted | 98 in. | Steel ½ in. | Steel % in. | | ******* | |
| Belpaire Steel | Iron, No. 11 W. G. 174 | 32 in. 68 in F.; 65 in. B. 3½ in. S. and B.; 4 in F. | S. and B., Steel Steel C., % in. | Belpaire stays, 1 in. dia. 31×31 in. 180 lbs. | 34,000 lbs. 4½ × 8 in. Single | 5 tons 3,100 galls. 40 ft. 734 in. 51 ft. 8½ in. |
| તું in. Quadruple riveted Double riveted | 2¼ in. 11 ft. 1¼ in. 98 in. | 3½ in. S. and B.; 4 in F. Steel ½ in. | Steel Steel % in. | Rocking | 4¾ in., 4½ in 5½ in. | 51 ft. 8½ in. |
| Belpaire | Iron, No. 11 W. G. | 32 in . | Steel | Belpaire stays, 1 in. dia. | 35,400 lbs. | 8 tons |
| Steel fs in. | 202 2¼ in. 13 ft. 10 in. | 69 in F.; 55 in. B. 31/2 in. S. and B.; 4 in. F. | S., ½ in.; B., ¾ in.; C., ¾ in Steel | Belpaire stays, 1 in. dia. 31 × 34 in. 180 lbs. Rocking | 4¼ × 8 in. Single 4¾ in., 4½ in., 5½ in. | 4,000 galls. 52 ft. 334 in. 62 ft. 234 in. |
| Quadruple riveted Double riveted | 13 ft. 10 in. 114 in. | Steel | Steel % in. | | | |
| Belpaire Steel | Iron, No. 12 W. G. 226 | 32 in. 67 in F.; 51 in. B. | S., ¼ in.; B., ¾ in.; C., ¾ in Steel | Belpaire stays, 1 in, dia. 31×34 in. | 34,800 lbs. 424 × 8 in. Single | 8 tons 4,200 ga.ls. 46 ft. 8 in. |
| ½ in. Quadruple riveted | 2 in. 11 ft. 7⅓ in. 102 in. | 3½ in. S. and B.; 4 in F. Steel | Steel Steel % in. | 180 lbs. Rocking | 41% in., 43% in., 5 in. | 57 it. 5 in. |
| Double riveted Wagon Top | Iron, No. 13 W. G. | 32 in | Steel | Crown bar stays | No Tender | 41% tons |
| Wagon Top Steel ½ in. | 250 2 in. | 68½ in. F.; 54½ in. B. 3½ in. S. and B.; 4 in. F. | S., 5 in.; B., 1 in.; C., 1 in Steel | . 31 × 25 in. , 180 lbs. | None Single | 41/2 tons 2,600 galls. 35 ft. 9 in. |
| Quadruple riveted Double riveted | 11 ft. 1½ in. 102 in. | Steel | Steel % in. | Rocking | 4½ in., 4¾ in., 5 in. | 46 ft. 10 in. |
| Wagon Top Steel | Iron, No. 13 W. G: | 42 in. 64 in, F.; 50 in B. | Steel | Crown bar stays 31 × 25 in. | 33,50) lbs. 434 × 8 in. Double | 6 tons 3,700 galls. 47 ft. 7½ in. |
| Quadruple riveted | 2 in. 13 ft. 10 fs in. 96 in. | 3½ in. S.; 3 in. B.; 4 in. F Steel | Steel Steel | 31 × 25 in. 189 lbs. Rocking | 3 in., 31/8 in., 31/4 in. | 58 ft. % in. |
| Double riveted | | ¼ in. | ¾ in. | *********** | 33,500 lbs. | 6 tons |
| Wagon Top Steel | Iron, No. 13 W. G. 186 | 34½ in. 64 in. F.; 50 in. B. | Steel | Crown bar stays 31 × 27 in. | 1 | 1 |
| Steel | 186 2 in. | 3 in. S. and B.; 4 in. F. | steel | 180 lbs. | 434 × 8 in. Single | 3,70° galls. 45 ft. 6½ in. |
| √ in. Quadruple riveted Double riveted | 12 ft. ½ in. 96 in. | | | Rocking | 5 in., 5¼ in. | 54 ft. 11 in. |

The subjects for which committees were appointed to report at the next convention were: Bridge Inspection; Depressed Cinder Pits and Other Kinds; Best Foundations for Track Scales; Boilers and Pumps for Water Stations; Construction and Maintenance of Pile and Trestle Bridges; Interlocking Signals.

Representatives of the Chesapeake & Ohio, Baltimore & Ohio, Philadelphia & Reading and New York, Philadelphia & Norfolk offered the members present, with their families, the courtesies of their respective roads. The Convention adjourned at 4 p. m., Thursday, Oct. 19, to meet on the third Tuesday of October next year at Kansas City, Mo.

Chicago Meeting of Superintendents' Society.

Two of the papers read at the Chicago meeting of th Two of the papers read at the Chicago meeting of the American Society of Railroad Superintendents did not appear in our report last week, and are crowded out for lack of room; they are those of Mr. Royce, of the Chicago, Rock Island & Pacific, and Mr. Derr, of the Eric-Mr. Royce gave a very interesting sketch of the history of electricity and of the principal inventions connected with it. He said little, however, about the present state of the electric arts as connected with railroads except to describe telephone exchange which the Rock Island has describe a telephone exchange which the Rock Island has lately established in Chicago.

The new terminal freight yard of this road is at Blue The new terminal freight yard of this road is at Blue Island, 17 miles from the general office in the city, and the numerous offices at headquarters are connected with the principal offices at the yards and with the other yards between the termini of the line, by a metallic circuit of copper wire. Long distance telephones are used, and there is an exchange in the general office building. The whole plant is rented from the telephone company at about \$4,000 a year, and gives complete satisfaction. The services of several telegraph operators were dispensed with when the telephone line was established. Mr. Derr's paper was a brief sketch of some of the principal signal exhibits at the World's Fair. A large part of the information that he gives is familiar to readers who have followed the descriptions of signaling ap pliances published in the Railroad Gazette, but we quote a few extracts from the paper referring to devices not so

pliances published in the Railroad Guzette, but we quote a few extracts from the paper referring to devices not so well known:

"Among the Pennsylvania exhibits is found the Union Switch & Signal Co.'s pneumatic interlocking system. The use of electrically controlled valves at switch movements the application of storage batteries instead of each of the paper of the storage of the storage of the each of the paper of the storage of the rever and more interesting features of the pneumatic machine. The use of storage batteries permits a closer regulation of quantity and pressure of current, and results in a considerable economy in expense of operation. The application of the Saxby & Farmer improved locking to the pneumatic machine permits close and accurate interlocking of levers and dispenses with a large amount of costly electrical work in the machine.

"In the sum of t

"Chicago Day" Transportation.

The Chicago day celebration at Jackson Park on Oct. 9, the 22d anniversary of the fire, brought out a crowd which taxed to the utmost the capacity of the various transportation lines of the vicinity. The influx of passengers from outside points was of course unprecedented and drove the managers of the various railroad companies to their wits' end to devise means of transportation. As for the lines leaving from various parts of the city to Jackson Park, they were fairly swamped.

The Alley Elevated Road had in service its full equipment of 180 cars and ran its trains at intervals of three minutes the entire day. The number of passengers carried as shown by cash sales reached a total of 294, 800. This does not represent the entire number carried as many of the patrons of the road buy 50 cents or a dollar's worth of tickets at a time and are thus prepared to avoid the crowds at the ticket offices on busy During the early part of the day and in the late afternoon trains from Congress street were packed to their utmost capacity. Travel in the other direction was heavy all day, especially so during the late afternoon and evening. At the Congress street station passengers were admitted to the platform both on Co street and Harrison street and both streets were filled the greater part of the forenoon with people trying to get to the trains. Trains leaving the Congress street station were so crowded that it was impossible to take passengers on at the intermediate stations, and in order to handle them it was found necessary to run occasional empty trains up the line from the Sixty-first street yards for their benefit. The rush was practically over at 11 o'clock p.m., though trains were run at frequent intervals until midnight.

tervals until midnight.

On the Chicago City Railway Company's cable roads the traffic was particularly heavy and trains were run at short intervals on the Cottage Grove avenue line, and on the State street line which transfers at Sixty-first street to the electric road running to the Fair grounds. The cars gave evidence of good construction, as scarcely a train on the Cottage Grove avenue line left the city without a number of pastsengers on the roof of the cars. The total number of the sengers on the roof of the cars. The total number of pas sengers carried on the lines of this company for the 24 hours was 757,660. It is estimated that of this number 500,000 were handled by the cable lines, 90,000 by the electric and the remainder by the horse car lines.

The Illinois Central had all of its 300 World's Fair cars

in service between Van Buren street and the Fair grounds and ran trains from early morning until midnight. Trains were run from Van Buren street over two terminal tracks, at intervals as short as their block signal system would allow. The exact number of passengers carried on this line cannot be determined until the count of tickets is finished. It is known, however, that the traffic ran considerably over 260,000. In addition to this the company had in service all day 166 suburban coaches and during the crowded part of the day 60 through pas enger coaches and 40 excursion coaches, making a total of 566 coaches in use on this road. A careful estimate shows a total number carried of 541,312.

The facilities of the World's Fair Steamship Company for handling passengers seemed to be overlooked by the crowd, as but 50,000 to 60,000 were carried by their boats a number considerably below their capacity

The Chicago & Northern Pacific ran trains as often as possible and handled a total of about 30,600, most of whom came from the western part of the city. But four trains were run from the Grand Central station to the Fair grounds.

Probably the greater part of those reaching the Fair grounds from points south and southwest were handled by the Calumet Electric Street Railway Company, whose lines practically cover this territory. The total number of passengers carried was about 78,000. The north and west side cable companies, which on the night of July 4 caused so much unfavorable com-

ment by their action in furnishing only the usual num-ber of trains, and discontinuing the cable service at the usual hour, redeemed themselves on this occasion by furnishing ample facilities for the transportation of their passengers from the center of the city.

Taken all in all the handling of the 761,942 people present at the Exposition on Chicago Day was well done, and the management of the various roads contributing to its success deserve unlimited credit for their perform ance.

Railroad Receiverships in 1893.

We give below a list of the railroads which have been put into the hands of Receivers since July 1, 1893. amounting to 16,751 miles. Adding the list of receiver ships from Jan. 1 to July 1, 5,282 miles, the total is 22,005 July 1 to Oct. 24.

| Miles | Chicago & No. Pac | Miles | Chicago & Miles | Mile 210 40

* Does not include Central Branch or joint operated mile age, nor 108 miles on U. P., D. & G. operated under trackage contract.

Meeting of the American Street Railway Association.

The twelfth annual meeting of the American Street Railway Association was held in Milwaukee, Oct. 18 and 20, 1893. The President introduced Mayor Koch, of Mil waukee, who delivered an address of welcome. Presi, dent Longstreet then delivered his annual address, a few extracts from which follow:

extracts from which follow:

"This has been a busy year in the great work of consolidation, reorganization and active progression; the
financial cloud perhaps has affected our business in a
less degree, than any other branch employing so large
a capital. The hundreds of millions of dollars interested in urban and suburban transportation will always be a safe investment. . . . In my experience, covering a period of nearly thirty years, I have found it better to keep up the quality of service at such times even at the

expense of dividends for the time being,"

The report of the Executive Committee was read and that, after numerous consolidations among members, the present membership is 200 companies.

The committee considered at some length the forma

tion of the American Street Railway Industrial Insti-tute, and submitted a proposed Act of Incorporation. Later in the report, however, the committee reports "This year has not been one in which to float new en terprises, and hence while the committee has had under consideration the subject of the formation of an Industrial Institute, we believe the time has not yet arrived to do more than commend to all the serious considera-

tion of this important question."

The first report read was on "Power House Engines,"
The vertical type of engine is recommended; and the compound condensing engine is recommended for large size plants. . . The vertical type takes less floor space than the horizontal, and in the horizontal type one is liable to have trouble with the piston; in the vertical

type this is not so liable to happen.

Mr. CONNETTE, of the committee, discussing the report spoke of the 1,500-H. P. vertical compound condensing engine of the Intramural Railroad at the World's Fair, which has never been shut down an hour for repairs to the engine proper. It has hauled 13 trains of four cars heavily loaded, constantly, all day, while the other engines, those of the horizontal type, have required repairs. The committee appointed to examine the engines in order to award premiums sat for 23 hours watching the engine work. It constantly pulled the whole load for 23 hours, with possibly not over one per cent. variation in the speed. The engine makes about 100 revolutions per minute, and it is said did not vary one revo-lution when the load was increased from, say, 50 per cent. to full load.

MR. ARNOLD, of Chicago: I believe in the vertical en gine because it occupies less floor space. The greatest drawback is the first cost. An electric railroad engine, as we have heretofore installed them, is normally an underloaded engine, for we have believed

that we should have the large engine behind the generator in order to respond promptly to the overload which is liable to occur at any moment. As these overloads are intermittent and of short duration, we run our en gines below their normal capacity the most of the time in order to be ready for the short excessive loads, and as these overloads are of short duration I believe it to be better engineering to allow the engine to work unecono-mically during those periods by allowing the steam to follow the pistons a longer time, even to full stroke if necessary, for a few revolutions, until the overload ceases, then dropping back to its normal point of cut-off and operating at this point during the long intervals between overloads. If the generator is properly designed it is capable of standing a short overload of 40 per cent., and by strengthening the frames and main working parts of the engine it will easily give 50 per capacity, thus being ab stand the shocks of short circuits and overloads without damage.

vitations were read from The E. P. Allis Company of Milwaukee, the Pabst Brewing Company of Milwaukee, and the Intramural Railway Company at the Fair, to the delegates to visit their respective works. It was announced that the afternoon would be devoted to visiting the Allis works and the Pabst brewery and some of the depots and power stations of the Milwau-kee Street Railway Company. The convention then adjourned until 8 o'clock.

At the Wednesday evening session Mr. O. T. Crosby was called upon to give his opinion of the relative conditions of the power required in generator and the engines. Mr. Crosby said that there had been a development of conservatism, and to-day when one speaks of a 500 H. P. engine and a 500 H. P. dynamo we may be pretty sure that he is talking about the same things. Mr. Crosby believes that the best practice is that an engine should be at least no greater in capacity than the dynamo to which it is attached, or perhaps the engine slightly lower in capacity. As between vertical and horizontal engines he thinks that it is in any one case a matter of special conditions, and he would not say, generally speaking, that direct connected generators are better than belt connections.

The next paper read was the Report of the Committee on Heating and Lighting of Street Railway Cars. The report considered the various methods of heating and lighting street cars. The conclusion was, considering all elements, that the best method of heating is by a primary heater fired with anthracite coal, operated from the inside of the car; that the best method of lighting is with electricity for electric roads, and gas, for example the Pintsch, for cables.

The Committee on the Use of T-Rails in Paved Streets The Committee on the Use of 1-hairs in raved Street had no report ready, but there was considerable discus-sion on the subject, and the great weight of evidence was in favor of such a rail. A number of speakers from various cities of the country spoke from their own experience as to the advantages of the T-rail, and there

A very careful paper on the use of storage batteries in connection with central stations for utilizing surplus energy for lighting or power was read by Mr. Mailloux. The result of a very thorough consideration of the sub ject is summed up in ten "conclusions," which we shall further summarize as follows: Great progress has been made in Europe during the last two or three years in storage batteries; they have been introduced in central lighting stations on a large commercial working scale for reserve and regulation, with satisfactory financial results, as a rule. The benefits derived in lighting stations. from a judicious use of storage batteries, are so great that the matter should be carefully investigated for power stations. Indications point to the possibility of realizing an economy in all stations operating 200 cars and less when coal is worth \$2 a ton and over. The question of when coal is worth age atom and over. In equestion or the use of storage batteries is one to be decided by in-vestigation of each special case. Mr. O. T. Crosby introduced John Fritz, of Bethlehem, but Mr. Fritz asked to be excused from making a

speech.

On Thursday afternoon the first paper read was that on Direct Driven Generators, a considerable portion

of which appeared in the Railroad Gazette last week.

The following officers were elected for the coming year: President, H. C. Payne, Milwaukee; Vice-President, dents, W. J. Stephenson, Washington; J. R. Chapman, Grand Rapids; Lewis Perrins, Trenton; Secretary and Treasurer, W. J. Richardson, New York.

Atlanta was selected as the place for the next annual meeting.

Later Mr. Herbert Claude, of Washington, D. C., was introduced and described the underground conduit system which has been introduced in that city.

The convention closed with a banquet on Thursday evening, at which 250 guests were present, and alto-gether the meeting appears to have been an important and a jolly affair.

Twenty-eight Passengers Killed on the Chicago & Grand Trunk.

A butting collision of passenger trains on the Chicago & Grand Trunk at Nichols, one mile east of Battle Creek, Mich., on the morning of Oct. 20, resulted in the death of 26 passengers, the fatal injury of two others a the serious injury of 24 others. The wreck took fire and