EIGHTEENTH ANNUAL REPORT

OF

THE DIRECTORS

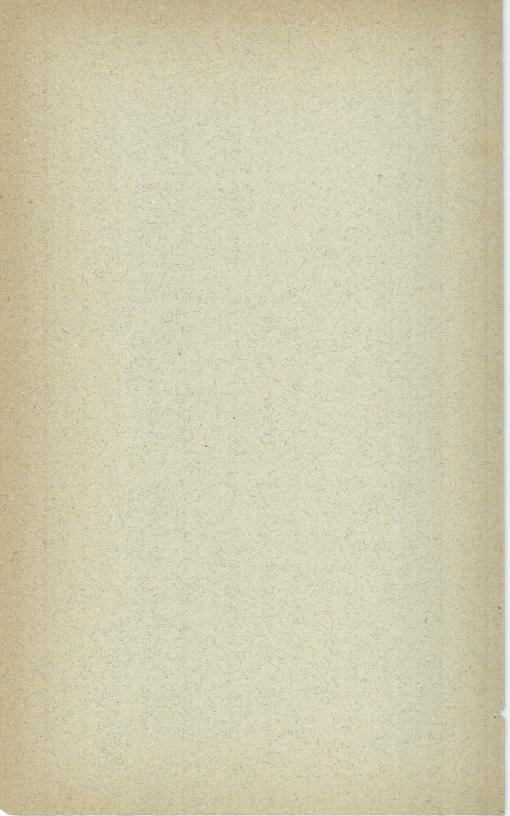
OF

THE AMERICAN BELL TELEPHONE COMPANY

TO THE STOCKHOLDERS,

YEAR ENDING DECEMBER 31, 1897.

BOSTON:
ALFRED MUDGE & SON, PRINTERS,
24 FRANKLIN STREET,
1898.



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OFFICE OF

THE AMERICAN BELL TELEPHONE CO., BOSTON, MARCH 29, 1898.

TO THE STOCKHOLDERS:

The output of telephones from 1884 to the beginning of this year and the various statistics—consolidated—of the company's licensees, are set out in the tables which follow:—

INSTRUMENTS IN THE HANDS OF LICENSEES, UNDER RENTAL.

THE FIGURES IN LOWER LINE SHOWING INCREASE FROM YEAR TO YEAR.

EXCHANGES.

Increase	58	105	40,683	1,182	47,833	143*	89,555
	1,025	937	327,315	13,776	282,634	2,675	626,400
Jan. 1, Jan. 1, Jan. 1, Jan. 1, Jan. 1, Jan. 1, 1894. 1895. 1896. 1897. 1898.	196	832	$100,332 \ 111,349 \ 127,839 \ 142,631 \ 154,009 \ 171,498 \ 180,139 \ 201,259 \ 214,676 \ 232,008 \ 260,324 \ 286,632 \ 327,315 \ 201,259 \ 201,$	12,594	90,216 120,675 148,285 184,515 234,801 282,634	2,818	101,592 114,046 128,231 146,438 170,471 193,213 240,412 266,456 307,791 353,480 396,674 459,728 536,845 626,400
Jan. 1, 1896.	927	989	260,324	12,861	184,515	2,028	459,728
Jan. 1, 1895.	867	572	232,008	14,525	148,285	1,856	396,674
	838	571	214,676	16,492	120,675	1,637	353,480
Jan. 1, Jan. 1, Jan. 1, Jan. 1, Jan. 1, Jan. 1, 1899. 1899. 1892. 1893.	812	539	201,259	14,980		1,336	307,791
Jan. 1, 1892.	788	509	180,139	14,954	70,334	1,029	266,456
Jan. 1, 1891.	774	467	171,498	13,445	54,690	779	240,412
Jan. 1,	757	471	154,009	11,484	27,117	603	193,213
	742	452	142,631	10,266	17,038	536	170,471
Jan. 1,	739	452	127,839	10,225	8,009	365	146,438
Jan. 1,	736	446	111,349	10,587	6,030	265	128,231
Jan. 1, Jan. 1, 1886.	747	428	100,332	10,043	3,417	254	114,046
Jan. 1, 1885.	772	481	88,481	11,886	1,225	1	101,592
Jan. 1, 1884.	906	419	1	İ	1	Į.	85,896
	Exchanges	Branch Offices,	Miles of wire on poles	Miles of wire on buildings,	Miles of wire underground,	Miles of wire submarine .	Total miles of wire

EXCHANGES — Continued.

ncrease	31,259	2,257	58,986
Incr			20
Jan. 1, Jan. 1	295,904	5,168 5,438 5,843 6,183 6,310 6,758 7,845 8,376 9,970 10,421 11,094 11,930 14,425 16,682	$134,847 \boxed{137,750} \boxed{147,068} \boxed{158,712} \boxed{171,454} \boxed{185,003} \boxed{202,931} \boxed{216,017} \boxed{232,140} \boxed{237,186} \boxed{243,432} \boxed{281,695} \boxed{325,244} \boxed{384,230} \boxed{237,239} \boxed$
Jan. 1,	264,645	14,425	325,244
Jan. 1, 1896.	237,837	11,930	281,695
Jan. 1, 1895.	212,074	11,094	243,432
Jan. 1, 1894.	205,891	10,421	237,186
Jan. 1, 1893.	201,322	9,970	232,140
Jan. 1,	186,462	8,376	216,017
Jan. 1, 1891.	173,665	7,845	202,931
Jan. 1, 1890.	156,780	6,758	185,003
Jan. 1,	143,687	6,310	171,454
Jan. 1, 1888.	132,004	6,183	158,712
Jan. 1,	121,260	5,843	147,068
Jan. 1,	112,067	5,438	137,750
Jan. 1, 1885.	107,440	5,168	134,847
Jan. 1,	97,422	4,762	123,625
	Total Circuits 97,422 107,440 112,067 121,260 132,004 143,687 156,780 173,665 186,462 201,322 205,891 212,074 237,837 264,645 295,904	Total Employés 4,762	Total Stations. 123,625

* Decrease.

EXCHANGE CONNECTIONS.

The estimated number of exchange connections daily in the United States, made up from 3,099,472 The number of daily calls per station varies in different exchanges from 1_{10}^{7} to 18, the average The average cost to the subscriber by exchanges varies, according to the size of the exchange 998,000,000 throughout the United States being 810, which is the same as the number reported last year. actual count in most of the exchanges, is Or a total per year of about

and character of the service, from less than 1 to 9 cents per connection.

EXTRA-TERRITORIAL AND TOLL LINES.

	In-	crease.	,238	,017
	1,		7 16.	883 56
	Jan.	1898.	67,7	324,8
	an. 1,	1897.	0,453	8,866
-	1, J		373	887 26
-	Jan.	1896.	52,8	215,6
	Jan. 1,	1895.	49,324	180,557
	Jan. 1,	1894.	46,727	154,106
	Jan. 1, Jan. 1	1886. 1887. 1888. 1889. 1890. 1891. 1892. 1893.	42,894	133,002
-	Jan. 1,	1892.	41,298	115,088
	Jan. 1,	1891.	35,541	91,230
	Jan. 1,	1890.	35,254	86,728
	Jan. 1,	1889.	34,010	73,293
	Jan. 1,	1888.	32,478	56,179
	Jan. 1,	1887.	31,143	43,767
	Jan. 1,		30,697	41,745
	Jan. 1,	1885.	25,766	35,631
	Jan. 1,	1884.	20,592	29,359
			Miles of Pole Lines 20,592 25,766 30,697 31,143 32,478 34,010 35,254 35,541 41,298 42,894 46,727 49,324 52,873 60,453 67,791 7,238	Miles of Wire, 29,359 35,631 41,745 43,767 56,179 73,293 86,728 91,230 115,088 133,002 154,106 180,557 215,687 268,866 324,883 56,017

TOLL CONNECTIONS.

75,208	24,200,000	\$4,435,515.40*	1,949,132.61*	211,507.21	29,241.89
			to		
			nted		
٠	٠	was	amonı		
	٠	1897	mns:		
٠		e year	above		
is		r the	the		
r of toll connections	out	by all companies for	ial lines included in	company received	
The average daily number of toll connections is	Or a total per year of about	The toll revenue reported by all companies for the year 1897 was	Earnings of extra-territorial lines included in the above sum amounted to	Of which last amount this company received .	An increase over 1896 of

*Not including herein earnings of the American Telephone and Telegraph Company.

We omit, in this report, the list of cities and towns in which the underground system of wires has been adopted, with the comparative figures of mileage in successive years, which has formed part of several preceding reports.

This system has now come into general use for the placing of conductors, for exchange use, in the closely built sections of the larger cities.

While the initial cost of underground construction is much greater than that of aerial lines, it has effected good results in removing large masses of wires from the streets, and, indeed, presents the only method by which the necessary number of conductors can be carried into the great central exchanges which have grown up within recent years.

While it has been found that lines carried in this way are exposed to disturbing causes, peculiar to this class of work, they secure immunity from the effects of destructive storms, and, on the whole, this may be regarded as the more durable class of construction.

The limitations of the use of underground lines, as regards distances, are quite obvious. It has been found that, with the best class of cables built for the purpose, transmission can be accomplished by this means for distances of only a few miles. So far, therefore, as the development of the art has gone, it is still impracticable to employ underground lines for what is known as toll or long distance service.

The underground system is now in use in 130 of the exchanges, and 282,634 miles of exchange wire, that is, nearly fifty per cent of the total mileage in the United States, are now carried by means of underground conduits.

The output of telephones and the increase of the number of exchange subscribers reported by the companies operating under our licenses are unprecedented in the history of the business. In fact, the gain of exchange stations recorded for the past two years equals the aggregate gain of the six years which preceded.

Almost the entire increase for the last year is made up of stations connected by metallic circuits.

Part of this growth may be attributed to the general enlargement of population and business throughout the country, the greater efficiency of the service, and the growing recognition of the telephone as a valuable agent for the transaction of business and a convenience of home life.

In part also, it is unquestionably due to the efforts of the operating companies to bring the service within the reach of the numerous class of those who have need for a limited use of the system, and have not felt justified in incurring the expense for an exclusive circuit and unlimited exchange service.

Improvements in the method of equipment have removed the difficulties which formerly attended the operation of party lines, and have made it possible, without confusion or material delay, to furnish service to two, three or more subscribers on the same circuit, who do not require a great number of connections. This service can be rendered at lower cost than would be the case were it necessary to maintain continuously a circuit for the exclusive use of each of these subscribers, which would remain unemployed a great proportion of the time.

The system of measured service continues to grow in public approval. The subscriber pays for the specific number of outgoing exchange connections for which he contracts, or as many more as his needs require, and is at no expense for inward calls.

This system of charges, based upon the amount of usage, is doubtless the more logical one, and its introduction has resulted in extending the service of the telephone to large numbers who would not otherwise have employed it as regular subscribers. While it supplements most usefully the older system of commutation, or unlimited service at yearly fixed rates, it is not likely to supersede it, for there will always remain a large proportion of the subscribers whose wants can be met only by the unrestricted use of their own circuits, with the right to call into requisition, as often as they desire, the circuits of other subscribers to the exchange, as well as the system of trunk lines which are necessary in the great cities, to connect the numerous offices into which the

exchange is divided. With the increase of the number of subscribers in an exchange, it is obvious that this right of unrestricted use becomes of larger consequence and of larger value.

Much is to be said, therefore, in favor of the retention of both systems together, as contributing, in the largest degree, to the interests of those who regularly employ the telephone in the conduct of their affairs. For those who have only occasional use for it, provision has been made in the public pay stations distributed over the county, which now number more than 18,000.

As the system has become more elastic, providing by the gradation of prices and the different forms of equipment for the greater and the lesser users of the exchange service, the results have become apparent in the statistics of usage, the unlimited service subscribers continuing to increase, year by year, their average of calls upon the exchange, while the measured service plan has the effect of keeping the general average of use throughout the country nearly uniform with that of earlier years.

During the year the Long Distance Company's lines have been extended to reach Omaha in the west, Minneapolis to the north, and southerly to Petersburg and Norfolk. There were in operation on the first of January, 1898, 8,778 miles of pole line and cable, and 116,116 miles of wire connecting 238 offices; a gain during the year of 1,433 miles of pole line and cable, 8,706 miles of wire, and 55 offices.

COMPARATIVE STATEMENT.

	Number of,	Number	Connec Metallic		Cabinet Sets.
	Companies	Stations.	Number.	Per cent.	
January 1, 1897	32	259,198	105,091	40.54	21,452
January 1, 1898	35	325,250	146,394	45.01	22,928
Increase	3	66,062	41,303	4.47	1,476

In all there are 35 companies reached whose systems furnish our long line terminals. These companies report a total of 325,250 stations, of which 146,394 (45.01 per cent) are equipped with metallic circuits; and of these 146,394 stations, 22,928 are equipped with long distance cabinet sets.

The twentieth anniversary of the application of the art of telephoning to commercial use, by the establishment of the first telephone exchange in the world, has just been passed, and in tracing the development of this new industry, which has grown up, from its very inception, within the knowledge of most of those now living, it is interesting and instructive to note that in the United States, among all the leading nations of the world, is found the highest development of the system, whether measured by the number of people who employ it, the standard of efficiency, or the distances over which conversation is held.

The tables which precede show the number of exchange stations operated under the licenses of this Company to be 384,230. This equals, within a few thousand, the aggregate number of exchange stations in all of Continental Europe. Next to our own country comes the German Empire with 122,362 exchange stations (1896), and next, Great Britain with 85,316. In the United States conversation is now had by subscribers over distances of 1,800 miles, which is twice the length of line anywhere else employed for telephonic use.

Not only is the discovery of the art of transmitting speech by telephone due to a citizen of this country, but it is also true that most of the appliances essential to operating a system adapted to commercial use, for example, the multiple switchboard and its numerous improvements, the construction of metallic circuits and underground conduits, had their origin here, and have later been adopted in other countries.

We note a steadily advancing standard in the quality of service furnished by the companies operating under our licenses. The greater part of the toll lines throughout the country have been made metallic circuits, and copper wire has been extensively used in the construction of new lines, and to replace iron upon the older lines. With the improvement of the toll lines, a higher grade of terminal equipment is fast being introduced, furnishing the subscriber better facilities for talking over long distances.

The new construction completed in 1897 by companies with which we have contract relations amounted to \$8,712,914.10. Of this sum \$4,865,317.92 was expended upon exchange construction and equipment, and \$3,847,596.18 upon toll lines. In addition to the above, \$1,484,331.71 was invested in real estate to be used for company and exchange purposes.

The entire expenditure for construction, including real estate, to the close of 1897, has been \$97,946,102.27.

In the suit of The United States v. The American Bell Telephone Company et al., the so-called Berliner Case, it will be remembered that the Circuit Court of Appeals for the First Circuit rendered a decision in favor of the defendant, and that from this decision an appeal was taken; that this appeal was argued on November 9–11, 1896, but that a decision thereon had not been rendered at the time of the last annual report. A decision has since been rendered affirming the decree of the Court of Appeals dismissing the bill, the opinion being filed on May 10, 1897.

The ledger balances as they stood on the 31st of December, 1897, and a detailed statement of the earnings and the expenses for the years 1897 and 1896 in comparison, are furnished by the Treasurer and are appended.

The Long Distance Company had invested, up to December 31, 1897, in line construction, franchises, equipment, and supplies, \$13,888,751.81. The Company shows an increase in gross earnings in 1897 over 1896 of $16\frac{1}{10}$ per cent, the amount for 1897, gross, being \$1,879,293.95.

Copies of the reports of the Auditing Committee of April 17, 1897, August 6, 1897, October 26, 1897, and January 27, 1898, are subjoined.

For the Directors,

JOHN E. HUDSON,

President.



LEDGER BALANCES, DEC. 31, 1897.

DEBTORS.

Telephones			\$1,772,596	55
Real Estate			1,052,695	92
Stocks and Bonds.			52,827,205	59
Merchandise and M	Cachinery		18,319	68
Bills and Accounts	Receivab	le	3,275,059	70
Cash and Deposits	•		1,833,964	11

CREDITORS.

Capital Stock	\$25,886,300 00
" Premium Account	6,110,582 00
Debenture Bonds, 1888	2,000,000 00
Bills and Accounts Payable*	1,216,330 89
Patent Account (Profit and Loss)	12,399,047 16
Profit and Loss	6,551,431 94
Reserve	4,025,628 29
Surplus	2,590,521 27
\$60,779,841 55	\$60,779,841 55

^{*}Of this amount \$1,164,883.50 is for the dividends payable January 15, 1898, to stock-holders of record December 31, 1897.

Comparative Statement of Earnings and Expenses.

	. 1897.	78 03 \$1,597,959 36	07 00 8,085,379 00	35 32 211,507 21	34,046 88 33,174 32	80,864 38 84,709 85	55 23 117,071 93	4,107 41 1,043 25	34 25 \$5,130,844 92
EARNINGS.	1896,	. \$1,238,378 03	2,616,307 00	. 182,265 32	. 34,04	98,08	. 171,355 23	4,10	\$4,327,324 25
		Rental of Instruments	Dividends	Commission from ExTerr. Lines	Commission from Teleg. Business	Real Estate	Interest	Miscellaneous	

EXPENSES,

		(C) C (C)		
Expenses of Operation		\$499,052 31		\$509,314 02
Legal Expenses		100,744 78		136,333 49
Real Estate	٠	40,117 87		41,560 76
Interest and Taxes		303,731 38		273,961 92
Miscellaneous		97 47		
		\$943,743 81		\$961,170 19
Net Earnings		\$3,383,580 44		\$4,169,674 73
Surplus Account, Dec. 31, 1896			\$2,151,011 61	
Net Earnings, 1897	•		4,169,674 73	
				\$6,320,686 34
Regular Dividends, 1897			\$2,939,904 00	
Extra Dividends, 1897			743,044 50	
Reserve for Depreciation of Insts.			47,216 57	
				3,730,165 07
Surplus Account, Dec. 31, 1897				\$2,590,521 27

REPORTS OF AUDITING COMMITTEE.

Boston, Massachusetts.

17 April, 1897.

JOHN E. HUDSON, Esqre.,

President Am'n. Bell Telephone Co.

Dear Sir, -

With this I enclose the report of Mr. Chas. T. Plimpton, an expert accountant employed by me to examine the books of our Company for the quarter ending March 31st, 1897.

Respectfully yours,

FRANCIS BLAKE, Auditing Committee, A. B. Tel. Co.

Boston, April 17, 1897.

I have audited the books and accounts of the American Bell Telephone Co. for the quarter ending March 31, 1897, and have to report:—

I have made examination of the Cash in hand and in the banks and trust companies at the close of business March 31, 1897, and find the amount, after allowing for outstanding checks, to agree with the balance of the Cash book upon that date.

I have seen approved and receipted vouchers for all disbursements, and have verified the records of cash receipts.

I have examined and verified the accounts of revenue, including rentals, commissions and concessions, and have seen that all notes, Stock certificates and other securities owned by the company are in hand or properly accounted for, and correctly entered upon the books.

I have found all Cash book and Journal entries duly posted to the Ledger, and the footings correct, and have proved the Balance Sheets.

I have examined the Stockholders' Ledger and the Stock Certificate books, and found the amount of outstanding stock to agree with the Capital Stock account in the General Ledger.

I hereby certify that in all my investigations, as above recited, I have found everything correct.

CHA'S T. PLIMPTON,

Dinard, France. 6 August, 1897.

JOHN E. HUDSON, Esqre.

President Am'n. Bell Telephone Co.

Dear Sir, -

With this I enclose the report of Mr. Chas. T. Plimpton, an expert accountant employed by me to examine the books of our Company for the quarter ending June 30th, 1897.

Respectfully yours,

FRANCIS BLAKE, Auditing Committee, A. B. Tel. Co.

Boston, July 17th, 1897.

I have audited the books and accounts of The American Bell Telephone Company for the quarter ending June 30th, 1897, and have to report as follows:—

I have made examination of the Cash in hand and in the banks and trust companies, at the close of business June 30, 1897, and find the amount, after allowing for outstanding checks, to agree with the balance of the Cash Book upon that date

I have seen approved and receipted vouchers for all disbursements, and have verified the records of cash receipts.

I have examined and verified the accounts of revenue, including rentals, commissions and concessions, and have seen that all notes, Stock certificates and other securities owned by the company are in hand, or properly accounted for, and correctly entered upon the books.

I have found all Cash Book and Journal entries duly posted to the Ledger, and the footings correct, and have proved the Balance Sheets.

I have examined the Stockholders' Ledger and the Stock certificate books, and found the amount of outstanding stock to agree with the Capital Stock account in the General Ledger.

I hereby certify that in all my investigations, as above recited, I have found everything correct.

CHA'S T. PLIMPTON,

Boston, Massachusetts, 26 October, 1897.

JOHN E. HUDSON, Esqre.,

President Am'n. Bell Telephone Co.

Dear Sir, -

With this I enclose the report of Mr. Chas. T. Plimpton, an expert accountant employed by me to examine the books of our Company for the quarter ending September 30th, 1897.

Respectfully yours,

FRANCIS BLAKE, Auditing Committee, A. B. Tel. Co.

Boston, October 25, 1897.

I have audited the books and accounts of the American Bell Telephone Company for the quarter ending September 30, 1897, and have to report:—

I have made examination of the Cash in hand, and in the banks and trust companies, at the close of business September 30, 1897, and find the amount, after allowing for outstanding checks, to agree with the balance of the Cash book upon that date.

I have seen approved and receipted vouchers for all disbursements, and have verified the records of cash receipts.

I have examined and verified the accounts of revenue, including rentals, commissions and concessions, and have seen that all notes, Stock certificates and other securities owned by the company are in hand or properly accounted for, and correctly entered upon the books.

I have found all Cash book and Journal entries duly posted to the Ledger, and the footings correct, and have proved the Balance Sheets.

I have examined the Stockholders' Ledger and the Stock Certificate books, and found the amount of outstanding stock to agree with the Capital Stock account in the General Ledger.

I hereby certify that in all my investigations, as above recited, I have found everything correct.

CHA'S T. PLIMPTON.

Boston, Massachusetts. 28 January, 1898.

John E. Hudson, Esqre.

President Am'n Bell Telephone Co.

Dear Sir, -

With this I enclose the report of Mr. Chas. T. Plimpton, an expert accountant employed by me to examine the books of our Company for the quarter ending December 31^t., 1897.

Respectfully yours,

FRANCIS BLAKE, Auditing Committee, A. B. Tel. Co.

Boston, January 27, 1898.

I have audited the books and accounts of the American Bell Telephone Company for the quarter ending December 31, 1897, and have to report:—

I have made examination of the Cash in hand and in the banks and trust companies, at the close of business December 31, 1897, and find the amount, after allowing for outstanding checks, to agree with the balance of the Cash book upon that date.

I have seen approved and receipted vouchers for all disbursements, and have verified the records of cash receipts.

I have examined and verified the accounts of revenue, including rentals, commissions and concessions, and have seen that all notes, Stock certificates and other securities owned by the company are on hand, or properly accounted for, and correctly entered upon the books.

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I have examined the Stockholders' Ledger and the Stock Certificate books, and found the amount of outstanding stock to agree with the Capital Stock account in the General Ledger.

I hereby certify that in all my investigations, as above recited, I have found everything correct.

CHA'S T. PLIMPTON,



