AUDIELE SPEECH BY TELEGRAPH, PROF. A. GRAHAM BELL'S DISCOVERY-SUC-CESSFUL AND INTERESTING EXPERI-MENTS BETWEEN BOSTON AND CAM-BRIDGEPORT. From the Boston Advertiser, Oct. 19. The following account of an experiment made on the evening of Oct. 9 by Alaxander Graham Bell and Thomas A. Watson is interesting, as being the record of the first conversation ever carried on by word of mouth over a telegraph wire. Telephones were placed at either of a telegraph line owned by Walworth Manufacturing Company, from their office in

Boston their factory in Cambridgeport, a distance of about two miles. The company's battery, consisting of nine Daniels cells, was removed from the circuit and another of ten carbon elements substituted. Articulate conversation then took place through the wire. The sounds, at first faint and indistinct, became suddenly quite loud and intelligible. Mr. Bell in Boston and Mr. Watson in Cambridge then took notes of what was said and heard, and the comparison of the two records is most interesting, as showing the accuracy of the electrical transmission: BOSTON RECORD. CAMBRIDGEPORT RECORD. Mr. Bell-What do you Mr. Bell-What do you think is the matter with think was the matter with the instruments? the instruments? Mr. Watson - There is Mr. Watson-There was

nothing the matter with them. B.—I think we were both speaking at the same time. W.—Can you understand anything I say? B.—Yes; I understand

did not hear at first, was because there was a relay in the circuit.

B.—You may be right, but I found the magnet of my telephone touching the

W .- The reason why you

W.—I cut this relay out,

and then the sounds came

everything you say.

membrano.

perfectly.

sounds.

and then talk.

B.—Do

thing now?

B.—All right.

Will keop listening,

B.—I hear every syllable. Try something in an ordinary conversational voice. W.—Shall I connect their pattery in the circuit? B.—No; there is no neces-

sity to connect their battery in the circuit, for the

out quite

I will cut

COLIO

loudly. W.—I am now talking in quite a low tone of voice. B.—The sounds are quite as loud as before, and twice as distinct. W.—Cut out the battery

[liere an interruption occurred, and after a short time Mr. Bell said:] B.—I thought you were going to say something. W.-Is the battery cut B.—No, but I will do it

out the pattery now if you

B.—Did you hear anything? W.-No, not a sound. B.—Say something to me when I cut out the battery again.

you hear any-

[Battery replaced.]

thing I

W.--... ---\* B.—I fancy I heard a trace of your voice. W.-Shall I put on our battery to see if it in-

creases the effect?

theirs, as before.

quite loud.

tery again I

faint and indistinct sounds were heard at the Boston end, and then came the intelligible sentence.] W.—Is our battery off ? B.—Yes, our battery is off. What have you been doing?

The sounds were quite suit at first, but now they are

B.—Shall I put on our bat-

W.-[Indistinctly heard.]

That was very indistict.

B.—I'll, tell you what we'll do. We'll take off

our battery and put on

Put on our battery. [Original battery replaced.] B.—We may congratulate ourselves upon a great success. W.—Both batteries are on [Another sentence

B.—Repeat the last sen-

B.—I understood that be-

fore, but I thought you

W.-Both batteries

said something else. W.—Remove their

heard indistinctly.]

tence.

tery, please. B.—All right; our battery is the only one on now. W.-I have put battery cells on here. B.—How many cells have you there? W.-S-i-x-six.

B.—Please whispersome-

W.-[Sound of the whis-

per clearly audible,

thing to me.

gi ale. J

₿.**—**.[

the effect is I

the utterance

W.—Perhaps we have got the batteries opposed to one another. Had you not better reverse your battery and see what the

matter is—or rather what

of reversing my battery.

B. - I will try the effect

B.—Is this any better?

accompanied by that curi-

ons crackling sound. B.-Yes, I hear it too. B.—What time is it by

W.-That sentence was

whispering, but could not

understand what you said.

your watch? [Battery again reversed.] W.—Whatare you doing I I have not heard anything except...for quite a while.

B.—I asked you what

time it was by your watch. Perhaps you hear me bet-ter now, because I have

reversed the battery again,

cut out.

W.-My battery is now

B.—Don't you think wo

better go home now?

W.-Yes, but why does your talking come out so much fainter now? [Mr. Bell here placed the magnet of the telephone nearer to the membrane.] B.—Because I had moved the magnet further away

W.—I will. B.—A few minutes ago I

from the membrane. w.—That was very much more distinct. B.—will you try to understand a long sentonco if I speak right on T

W.—The time by my Had I not better go

heard a fire-engine pass by the door. I don't know where the fire is, but the number of the box is 196. watch is five minutes past into Boston.

B.-Yes; I think it is time to stop now.

W.—Shall I go to Exeter place I B.—Yes; but look in here

on your way in case I have

W.-Let us talk conversationally without noting.

not gone.

ment closed.

B.-I think ... at the same W.—Can you understand anything I say I B.—Yes: I understand everything you say. W.-The reason why it did not work at first was

because there was a relay

B.—You may be right, but I find....that my....

touches the membrane.

in the circuit.

Bational voice.

as distinct.

and then talk.

will keep listening.

them.

nothing the matter with

W .- I cut the relay out, and then the sounds came out perfectly. B.—I hear every syllable. Try something in a conver-

W.—Shail I connect their

B.—No; there is no neces-

battery in the circuit I

sity for putting their bat-tery in the circuit, as the sounds. corae out quite loudly. W.—I am now talking in quite a low tone of voice. B.—The sounds are quite as loud as before, and quite

W.—Cut out the battery

B.—All right. I will cut

out the battery now if you

B.-I thought you were going to say something. W.-Is the battery cut out 4 ·B.—No, but I will do it 110 W. [Battery having been cut out, Mr. Bell continued.]

B.-Did you hear any-

B.—Say something to me

when I cut out the battery

W.—No. not a sound.

again. [Batterry cut out.] W.—I could not hear a sound when the battery was cut out. [Battery replaced.] B.—I fancied I heard a trace of your voice.

W.-Shall I put on their battery to see if it in-

tell

our battery altogether and

put on theirs, as before.

tell you what We'll take off

creases the effect?

B.—l'll

we'll do.

Cess.

tence.

aro

but

[Battery reversed.]

unintelli-

could hear you

The company's battery having been placed in circuit

W.—is our battery off? B.-[Very indistinctunintelligible,]

W.—That was very indis-

B.—We may congratulate

W.—We deserve success.

B.—Repeat the last sen-

W.-Both batteries are

ourselves on our great auc-

Both batteries are on now.

tinct. Put on our battery.

on now. B.—I understood that before, but I thought you said something else. W.-Reverse your tery, please. B.—All right; our battery is the only one on now. W.—I have six Daniells

B.—How many cells have

B.-Please whisper some-

W.- am now whisper-

could hear you

cells on here.

you on there I

thing to me.

13.—L

ing.

 $W_{\cdot}$ -S-i-x-six.

W.-l'erhaps we have got the batteries opposed to one another. Had you not better reverse yours; and see what the effect is? B.—I will try the effect

of reversing my battery.

W.-Much fainter,

bubbling sound.

except.

B.—Is this any better?

companied by that curious

W.—What are you doing ?

bubbling

I havn't beard anything

that

Bouna for quite a while. B,—l asked you....

whispering, but could not

understand what you said.

...bocanso I.... W.-My battery is now cut out. B.—Do you think we had better go home? W.-Yes, but why does your talking come out so

much fainter now?

the membrane.

W.-That was very much more distinct. B.-Will you try to understand a longer question if I speak right on ? W.—I will. B.—A few minutes ago I

heard a fire-engine go past the door. I don't know

B.—Because I moved the

magnet further away from

where the fire is, but the number of the box is 196. W.—The time by my watch is live minutes past Had I better not go into Boston. B.—Yes; I think it is time

B.—Yes; but look in here on your way in case I have not gone. W.—Let us talk conversationally without noting.

W.—shall I go to Exeter place ?

The New York Times

to stop now.

Published: October 21, 1876 Copyright © The New York Times

Conversation was then carried on for about half an hour with the utmost freedom, and the experi-