

College Hill Nov. 8th 1877

Mr. F. L. Pope.

My dear sir

You will find accompanying this letter another telephone - the one asked for the other day. You will notice a number of new features, 1st. The substitution of paper for the diaphragm in place of iron or steel. Almost any other body will answer, thus, I have had good results with a sheet of zinc. I thought I would make this one of paste board for the novelty of it and because very good results are given with it.

2nd I have made fast to the paper the double-pole inductor with bobbins on it, connected with the bobbins on the permanent magnets. This I thought would likely give a stronger current and it does.

3rd - a brand new feature is - that the poles have a thin piece of rubber between them and they touch. I have had better results with these in this way than with the poles at a little distance. There is great clearness in the articulation, and considerable volume is the same. Enough to enable one to be heard in singing through a hall seating a thousand persons as I verified last night. 700 were in the hall and it was not filled. All heard the singing, also the sound of a cornet

that was played in assistant building.

This feature is so different from the Specifications of Prof. Bell's patent that I think it may be possible to obtain a patent without the cry of infringement.

I hope to hear that you got a good result from this instrument and if you don't get a better result with it than with the instrument sent some time ago, I shall wish to come down at once and see to it. I find that the best way to adjust it is, after having determined that the poles are opposite and equally distant, to get some one to make a contact and uniform sound in another instrument for a minute or so, meanwhile with the hand upon the set screw and the ear at the orifice the proper point can easily be found by its loudness and the prominence of the lowest tone. At the proper place the poles will pinch the rubber slightly.

I read in Yesterday's Graphic that Mr. Edison had really invented a way for recording the speech from the telephone. Is it so? and when is it described?

Yours truly
A. E. Dallas