

College Hill Mass. Oct. 24th 1877


Mr Geo. Walker

Vice Pres. Gold & Stock Co.

Dear Sir

I have again the pleasure to communicate to you for the benefit of the Gold & Stock Co. the results of further researches in telephony.

I have had constructed a pair of telephones in which the vibrating disk, instead of being iron or steel as the others have been, has been made of paper and of thin wood.

Upon the front of the disk a small bobbin with its inclosed core of soft iron is made fast thus,  a being the disk

of paste board or thin wood,
 b is a small coil and core like an electromagnet, this of

course to be placed in line with the pole of the permanent magnet with its coil while the two bobbins have their wires connected so that the induced currents will move in same direction. I have tried this arrangement with a straight bar, also with the U form of magnet, and two of the above small bobbins opposite the poles of the U magnet and my results have pleased me so much I think it best to communicate it at once to you. I think it might be probable that a patent upon this could be secured which would dodge nearly all of Mr Bell's claims, there is 1st. no diaphragm that acts as an inductor but in place any

substance which can absorb some vibrations, such as paper, leather or other membrane or wood or wax or indeed any convenient substance, and second the inductor is itself a genuine electro-magnet a device which is unique I think. As to the results, they are comparable with the best I have obtained with the other diaphragm and I hope to increase its efficiency with a fair probability of success. I shall make the small core of the bobbin a permanent magnet itself and hope to secure improved results. As competition is likely to be lively I don't want to wait to complete all I propose before sending to you. I have also invented a novel application of the telephone in R.R. Signalling which I hope will create a good demand for instruments in that direction. A company in Boston is bargaining with me for that invention.

I hope that you will apply for a patent upon the above device at once, for to me it seems as tho' it might stir nearly clear of Prof. Bell's arrangement.

Please to let me hear from you at once on receipt of this that I may know that you have received it.

Yours truly
A. E. Dolbear
College Hill
Mass.

P.S. I enclose the two bills,
one for the models at the patent
office - the other for lawyers fees
for you were interested in the
case -

A. E. Dolbear

Prof DeLamar

Oct 24. 1877

Respectfully ref:
to O. P. J. B. Prescott
with request to
take such action
in reference to the
improvements
within mentioned
as seems to him
advisable

George Walter
O. P.

Oct. 25 1877

It is all the enclosed
bills proper copy
of the J. S. Co. ? They
are of earlier date
than the contract.