

College Hill Mass. Feb 10th.

Mr. F. C. Pope

Dear sir

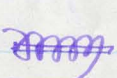
I rec'd your
little note, Feb, 8th last night.

I am much obliged to you for
your counsel about the tele-
phone business. I had hoped
that it might be possible for you
to take an interest in the foreign
introduction of my inventions
in this direction, but I did not
know the precariousness of an
interest in foreign countries.

Could you say whether or not
you think it would be worth
the while to attempt to find
a party in Canada to introduce
the Samedu?

Inasmuch as you think it not worth a patent or rather that a patent could not be obtained for it, I guess I shall stop further work upon that kind of telephone tho' I tho't when it was proved as it was when Ne Buck was in N.Y. that it could be used on long lines that a patent could be obtained for it because in that manner of use new and useful results could be obtained from it, I refer to the modified Reis. There is one thing about it tho' which perhaps you have already considered viz, that Reis' telephone had a vibrating membrane carrying the platinum connections, while mine has

a stiff metallic plate which is also a conductor and its vibrations exactly reproduce those in the air which is not the case with such a membrane as Reis used. Mine worked so well that I proposed to christen it with a new name because it would do what Reis' certainly would not do - I called it - an Electrophone - which name - how would it do for the Saundee telephone?!

One other thing, of scientific interest viz, when a current of electricity or of steam is made to traverse a spiral conductor it acts upon either an iron core to make it a magnet or to induce electrical currents in a closed conductor. Thus  let the spiral represent a small bore steam pipe with a bar of iron in it; if high pressure steam be driven through the tube the iron becomes

magnetic precisely the same as if
a current of electricity was traversing
the spiral in the same direction, Now
what I want to enquire about is this,
don't it likely that the current that travels
spirally round the cable core make the
most of the trouble in the cables?

That is if the wire of the armor be
twisted about the strand it would
interfere with the rapid working of
a ^{long} cable ~~long enough~~ to which would
be avoided by making the armor of
the cables longitudinal instead of spiral,
Is it in the least probable? I don't
want to encroach upon your exceedingly
filled time at all but if the above has
any bearing at all upon cable working
it is important. The Bell Co. has published
warnings against any using the telephone in
N.E. and say that Bell has the only patent on
a telephone in the U.S. I notice also that
the N. U. Tel. Co. speak of Bells, Edison's, Gray
& Phelps' telephones but I nowhere hear
of my own! Yours truly H. D. Forbes