College Hill Mass. Feb 10th.

Mr. F. E. Pope

Dear Sir,

I read your letter dated Feb. 8th last night. I am much obliged to you for your counsel about the telephone 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. Would you say whether or not you think it would be worth the while to attempt to plead a party in Canada to introduce the Sarnader.
Dearest uncle as you think it not worth a patent or rather that a patent couldn't be obtained for it. I guess I shall stop further work upon that kind of telephone. This I thought when it was proved as it was when the Buck was in N.Y. that it could be used on long wires that a patent could be obtained for it because in that manner we new and useful results could be obtained from it. I refer to the modified Reiss. There is one thing about it that which perhaps you have already considered viz., that Reiss' telephone had a vibrating reed have 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 Riesz used. Hitherto worked so well that I proposed to construct it with a new name because it would do what Riesz' certainly would not do— I called it an electrophone. Which name— how would it do for the Sennnder telephons?!!

One other thing, of scientific interest viz., how a current of electricity or of steam is made to traverse a spiral conductor it needs upon what an iron core to make it a magnet or to induce electrical currents in a closed conductor. Thus— let the spiral reflux 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 a current of electricity was traveling
in the same direction, and what I want to enquire about is this,
but it likely that the current that traveled
properly round the cable core make the most of the trouble in the cable?
That is if the wire of the armor be
twisted about the strand it would
interfere with the rapid working of
a cable long enough to which would
be devoted by making the armor of
the cable longitudinal instead of spiral.
Is it in the least probable? I don’t
want to recommend anything else until I have
asked this at all, but if the observer has
any bearing at all upon cable working
it is important. The Bell Co. has published
warnings against any using the telephones in
N.E. and say that Bell has the only patent on
telephones in the U.S. I notice also the
the B.H. Co. made of Bells. Elinius, Pope
& Phelps Telephones but I know little here
of my view! Permits Mrs. Wallace.