

the instrument shown in Fig. 10 he had obtained at one time a hearing distance of 7.5 cm., (or 3 inches, 1) but from some cause not ascertained he was unable subsequently to reproduce the effect.

The final form of apparatus adopted as the result of the above experi-

ments is shown in Fig. 11. With this arrangement and a battery of six bichromate elements freshly set up, we were always sure of a hearing distance of at least 5 cm., although after the battery had been in use for some time the hearing distance hardly exceeded 4 cm.

The following are the dimensions of the eoils A B (Fig. 11) and their resistance:

Coll A,External diameter	7	cm.
Internal diameter		
Depth	2.4	cm.
Wire used, No. 23, (cotton covered.) Resistance, 2	ohn	18.
Coll BExternal diameter	2.0	cm.
Coll B External diameter		
Coll BExternal dameter		
	8	nım.

¹ See Appendix, note 11.