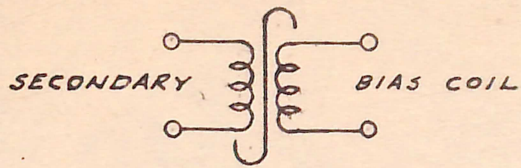
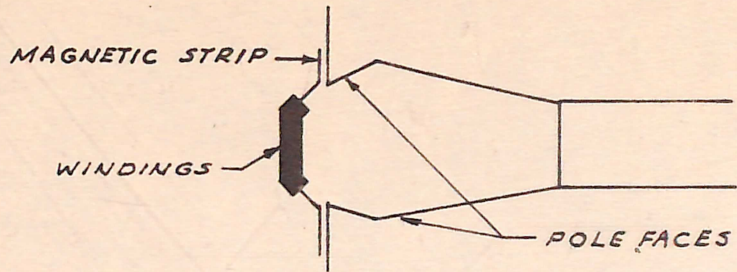


SCHEMATIC CIRCUIT:



SKETCH OF INSTALLATION:

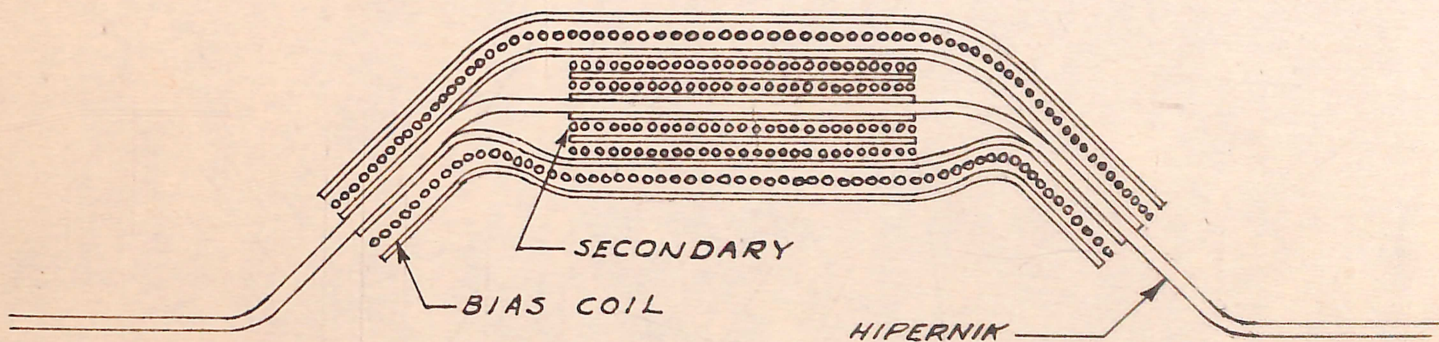


MAGNETIC STRIP:

One strip, 1.5" x 10", of .005" HIPERNIK

WINDINGS:

The secondary coil, from which the trigger pulse is obtained, is wound next to the strip, over a layer of 0.005" fish paper with at least $\frac{1}{8}$ " overlap, and is 200 turns for the injector, 250 turns for the contractor, of B&S #36 single-silk-enamelled copper wire close-wound in two layers separated by 0.005" fish paper. The bias coil is wound over the secondary, separated by fish paper, and is 200 turns of close-wound enamelled B & S #30 copper wire. The finished coil is wrapped in cotton tape. The relative location and approximate dimensions of the coils are shown in the sketch below, which is not to scale. The bias coil is wound with larger wire so it will be longer than the secondary, and thus provide a uniform bias field along the secondary.



PEAKER DESIGN

PHYSICS DEPARTMENT UNIVERSITY OF ILLINOIS URBANA, ILLINOIS		DRAWN BY RENARD	SCALE —
		CHECKED BY CSR	DATE 7-13-46
(32005) 22 MEV. BETATRON	FILE B-2	DRAWING NO. 319	SHEET NO. 7