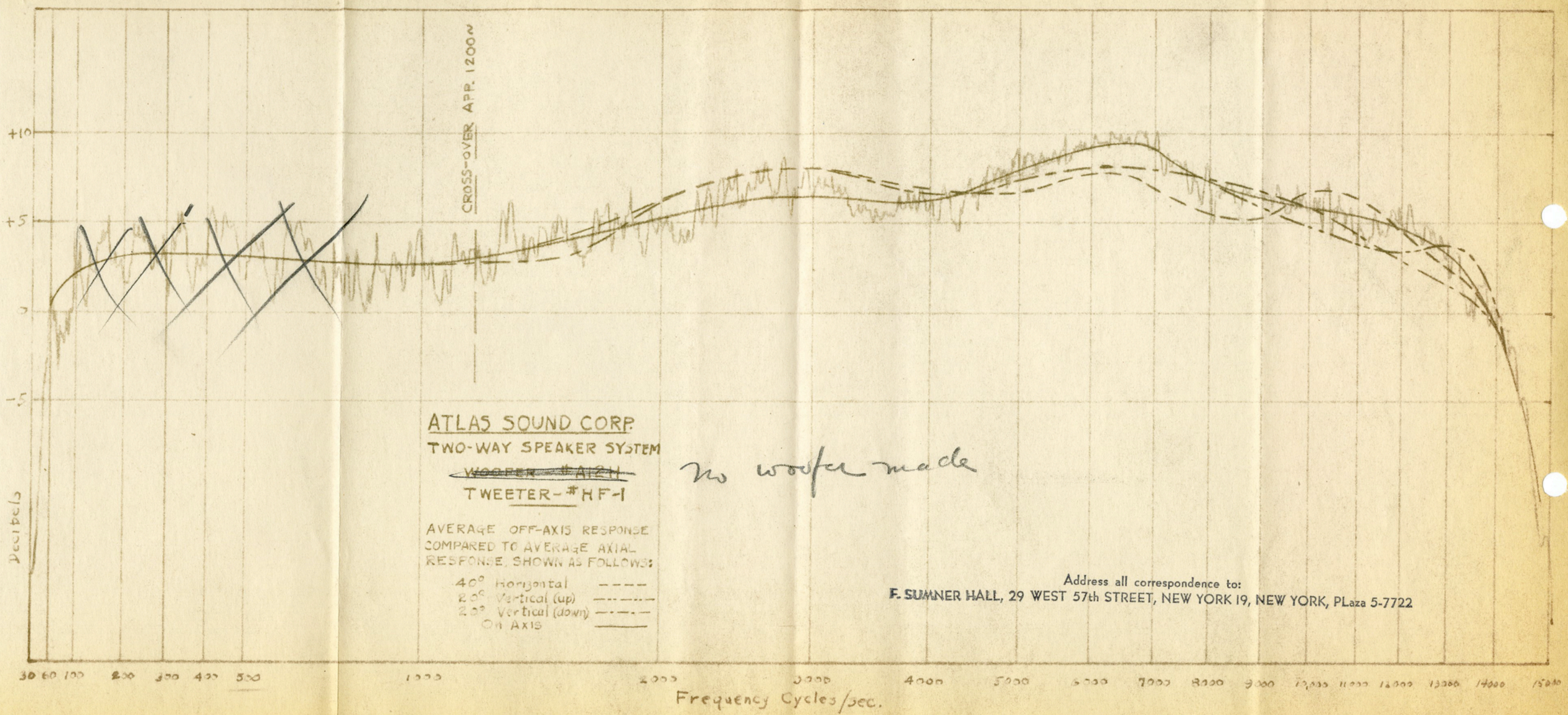
CROSS-OVER APP. 1200~
+10
+5
0
-5
Decibels
30 60 100 200 300 400 500 1000 2000 3000 4000 5000 6000 7000 8000 9000 10,000 11000 12000 13000 14000 15000
Frequency Cycles/sec.
ATLAS SOUND CORP.
TWO-WAY SPEAKER SYSTEM
~~WOOFER #AF2H~~
TWEETER-#HF-1
AVERAGE OFF-AXIS RESPONSE COMPARED TO AVERAGE AXIAL RESPONSE, SHOWN AS FOLLOWS:
40° Horizontal
20° Vertical (up)
20° Vertical (down)
On Axis
no woofer made
Address all correspondence to:
F. SUMNER HALL, 29 WEST 57th STREET, NEW YORK 19, NEW YORK, PLaza 5-7722

HIGH FREQUENCY TWEETER LOUDSPEAKER AND DIVIDING NETWORK

This loudspeaker, with integral dividing network, is made specifically for efficient high frequency reproduction, thus avoiding design compromises imposed by single unit, dual channel reproducers. Any good quality cone speaker in a suitable baffle may be used as a companion "woofer", by connecting it to the terminals provided.

A wide range, high quality loudspeaker combination will result, with uniform reproduction available from the lowest frequency the woofer will produce, to approximately 15,000 cycles, for high quality "live" pick-up, FM reception, and highest fidelity transcription type recordings.

The dividing network is designed to eliminate phase distortion in the cross-over region, and a volume control is incorporated to adjust the level of the tweeter to balance that of the particular woofer chosen. A transfer switch is also provided to cut out the tweeter and network for relatively narrow band AM radio reception, reproduction from scratchy records, or other average quality signals having excessive noise or noticeable distortion.

An entirely new principle has been utilized to give wide angle, uniform distribution of the full range of frequencies produced by this tweeter starting at approximately 1200 cycles. Thus, when combined with the average woofer, full spatial coverage can be obtained over the entire frequency range.

SPECIFICATIONS

P. P.

POWER RATING: Maximum power capacity with woofer connected - 20 watts of speech and music.

IMPEDANCE: Connect terminals #1 and #2 to 8 ohm amplifier output. Connect terminals #3 and #4 to 8 ohm woofer.

DRIVER UNIT: High temperature molded diaphragm type with Alnico V permanent magnet.

HIGH FREQUENCY HORN: Non-vibrating cast aluminum.

FREQUENCY RESPONSE: ± 6 db 50-14,000 cycles, with suitable woofer.

SPATIAL DISTRIBUTION: Horizontal - 80°
Vertical - 40°

CABINET DIMENSIONS: Width 15"
Height 10"
Depth 9"

TOTAL WEIGHT: 15 lbs. approx., including network and cabinet.

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F. SUMNER HALL, 29 WEST 57th STREET, NEW YORK 19, NEW YORK,

PLaza 5-7722

ENGINEERING DEPARTMENT
ATLAS SOUND CORP.
BROOKLYN - NEW YORK

MODEL HF-1
HIGH FREQUENCY REPRODUCER

DRAWN BY	DATE		APP'D
CHECKED BY E. C. R	DATE 6-5-46		
SCALE		DW. NO.	

"ALBANENE" No. 195L K&E CO., N.Y. REG. U.S. PAT. OFF.