

# Basic Detail Report



## Title Speech Synthesis Bell System Science Experiment No. 3

Date 1963

Primary Maker Bell Telephone Laboratories

Medium cardboard, printed ink, brass

Description Speech Synthesis Bell System Science Experiment No. 3 developed

by Bell Telephone Laboratories for Educational Use, 1963. (a) The base of the

box was used to build the electronic circuit. (b) The box top. Subject

Information: "The "Speech Synthesis" experiment was one of several

educational aids on speech and hearing, made available through the Bell

System's High School Science program. The "Speech Synthesis" experiment is

intended to advance the student's understanding of speech production and

recognition. The electronic circuit, if assembled properly, can produce a variety

of vowel sounds. Experiments are suggested that demonstrate some of the

acoustic and psychological factors involved in speech perception. The "Speech

Synthesis" material is intended primarily for capable biology and physics

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students at the secondary school level." [Source: Speech Synthesis: An

Experiment in Electronic Speech Production by Cecil H. Coker, Peter B. Denes,

and Elliot N. Pinson, Bell Telephone Laboratories, 1963, Preface]

Dimensions Primary Dimensions (overall height x width x depth):  $2 \frac{3}{8} \times 9 \frac{1}{4}$

$\times 6 \frac{1}{4}$ in. ( $6 \times 23.5 \times 15.9$ cm)