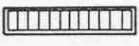
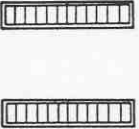


SPEECH OR SIGNAL INPUTS



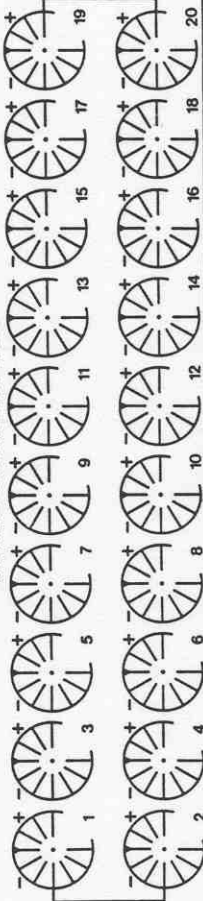
REPLACEMENT SOUND INPUTS



VOC OFF
VOC NORMAL



VARIABLE CHANNEL EMPHASIS



AUTOCONTROL



VOICED UNVOICED



AUTOMATIC VOICED ONLY UNVOICED ONLY

INT. EXT.



MIC ON



MIC 200 Ω SYM



LINE +6dB



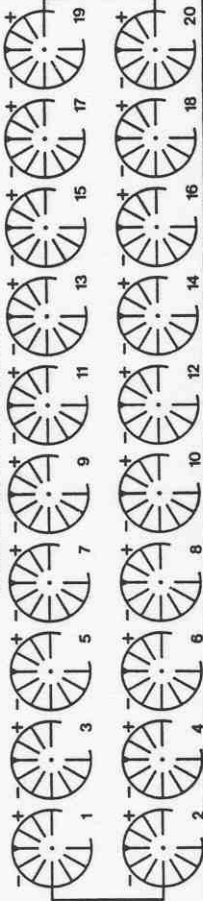
SPEECH ENVELOPE



VOICE MODE DETECTOR



SPEECH ADDITION / MULTIFILTER



BYPASS

SPEECH OFF R.SOUND



MULTIFILTER OR ADDITION



1-20

SILENCE BRIDGING



BRIDGING OFF



1-20



THRESHOLD



VOLUME



600 Ω SYM



CHANNEL ENVELOPES



SPEECH DETECTOR



OUTPUT



SPEECH OR SIGNAL INPUTS

1

AUTOCONTROL

2 ON

3 OFF

4

5

MIC ON

6

MC200 & SYM

7

LINE +6dB

8

9

SPEECH ENVELOPE

REPLACEMENT SOUND INPUTS

10

11

VOICED UNVOICED

12

13

AUTOMATIC VOICED ONLY UNVOICED ONLY

14

INT. INT.

15

16

EXT. EXT.

MIC PINK-FILTER

17

18

LINE +6dB

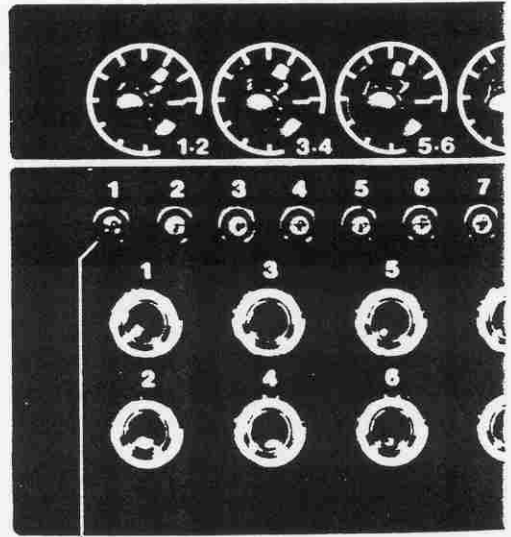
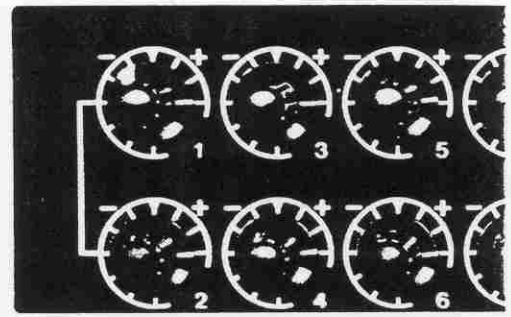
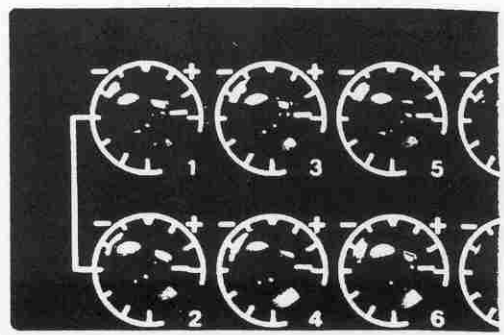
19

20

21

22

VOICE MODE DETECTOR



23

VARIABLE CHANNEL EMPHASIS

5 7 9 11 13 15 17 19

6 8 10 12 14 16 18 20

24 25 26

SENNHEISER
VOCODER VSM 201

VOC OFF VOC NORMAL

This panel features two rows of eight rotary switches each, labeled 5 through 20. A label '23' points to the top row. To the right, a logo for 'SENNHEISER VOCODER VSM 201' is visible. Below the logo are two toggle switches labeled 'VOC OFF' (24) and 'VOC NORMAL' (25). A third control, a rotary switch (26), is located to the right of these. A label '2' is positioned at the far right edge of the panel.

28

SPEECH ADDITION / MULTIFILTER

5 7 9 11 13 15 17 19

6 8 10 12 14 16 18 20

29 30 31

BYPASS SPEECH OFF R.SOUND

MULTIFILTER OR ADDITION OFF

1-20

33 34 35

This panel contains two rows of eight rotary switches each, labeled 5 through 20. A label '28' points to the top row. To the right, there are three toggle switches: 'BYPASS SPEECH OFF R.SOUND' (29), 'MULTIFILTER OR ADDITION OFF' (30), and another (31). Below these are three more toggle switches labeled 33, 34, and 35. A rotary switch labeled '1-20' is on the far right. A label '3' is positioned at the top right edge of the panel.

37

SILENCE BRIDGING

5-6 7-8 9-10 11-12 13-14 15-16 17-18 19-20

38 39 40

BRIDGING OFF

1-20

37

6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

7 9 11 13 15 17 19

8 10 12 14 16 18 20

CHANNEL ENVELOPES

43

THRESHOLD

VOLUME

600 Hz SYM

SPEECH DETECTOR

OUTPUT

44 45 47 48

This panel is divided into two sections. The top section, labeled '37', has a row of eight rotary switches labeled '5-6' through '19-20'. To the right are three toggle switches: 'BRIDGING OFF' (38), another (39), and a third (40). A rotary switch labeled '1-20' is on the far right. The bottom section, labeled '37' and '43', has two rows of rotary switches. The top row has switches labeled 6, 7, 8, 9, 11, 13, 15, 17, 19. The bottom row has switches labeled 8, 10, 12, 14, 16, 18, 20. To the right of these are four controls: a rotary switch labeled 'THRESHOLD' (44), a rotary switch labeled 'VOLUME' (45), a rotary switch labeled '600 Hz SYM' (47), and a rotary switch labeled 'OUTPUT' (48). A label '4' is positioned at the top right edge of the panel.

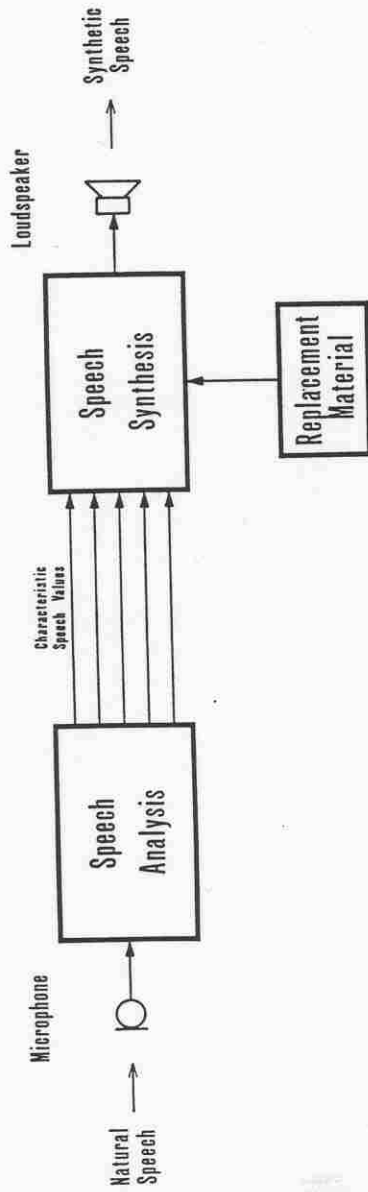


Illustration 3

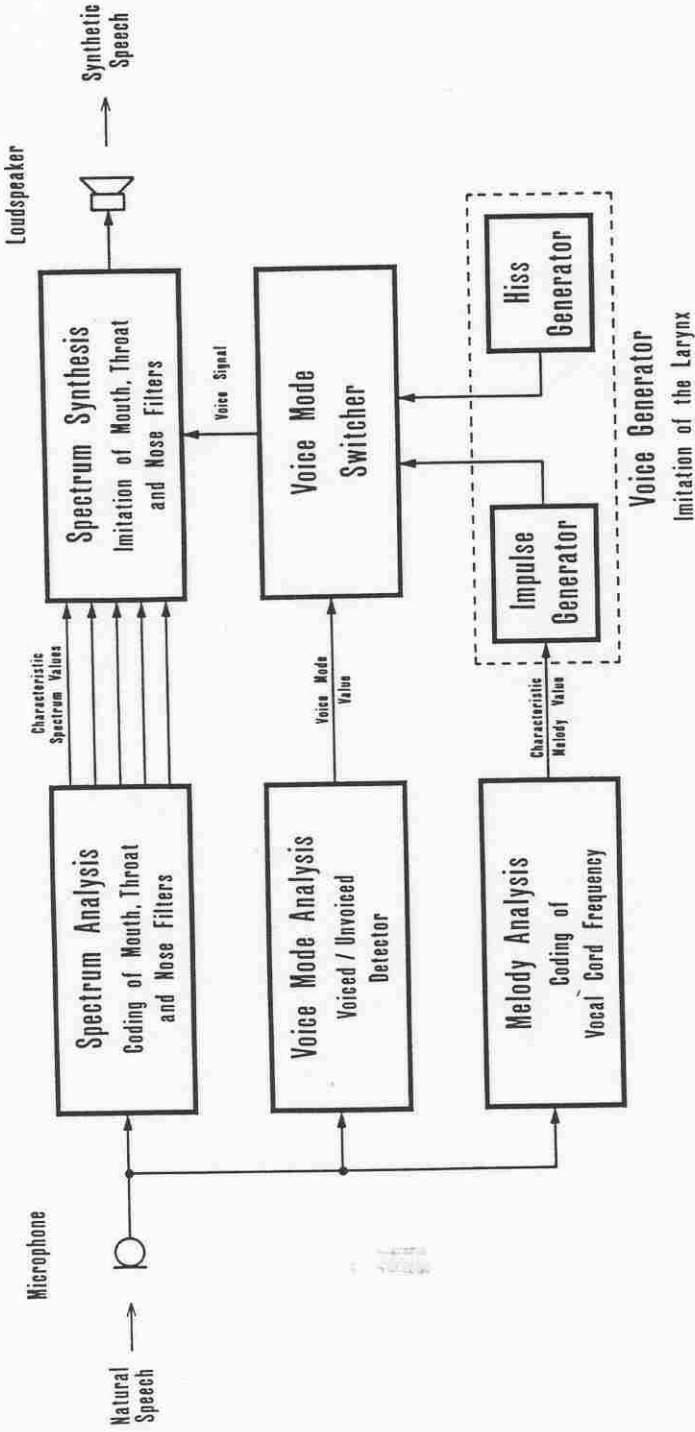


Illustration 6

Synthesis

Analysis

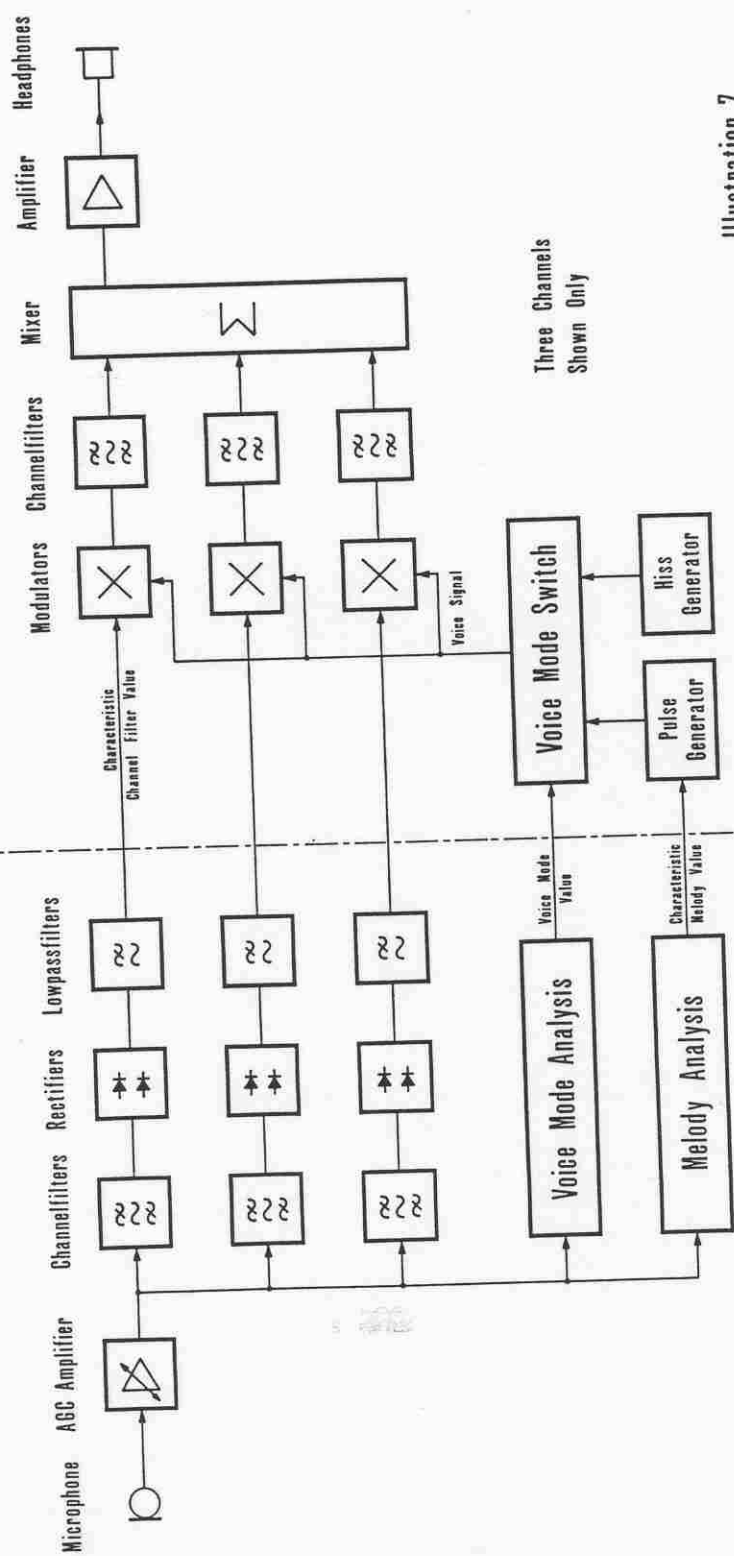
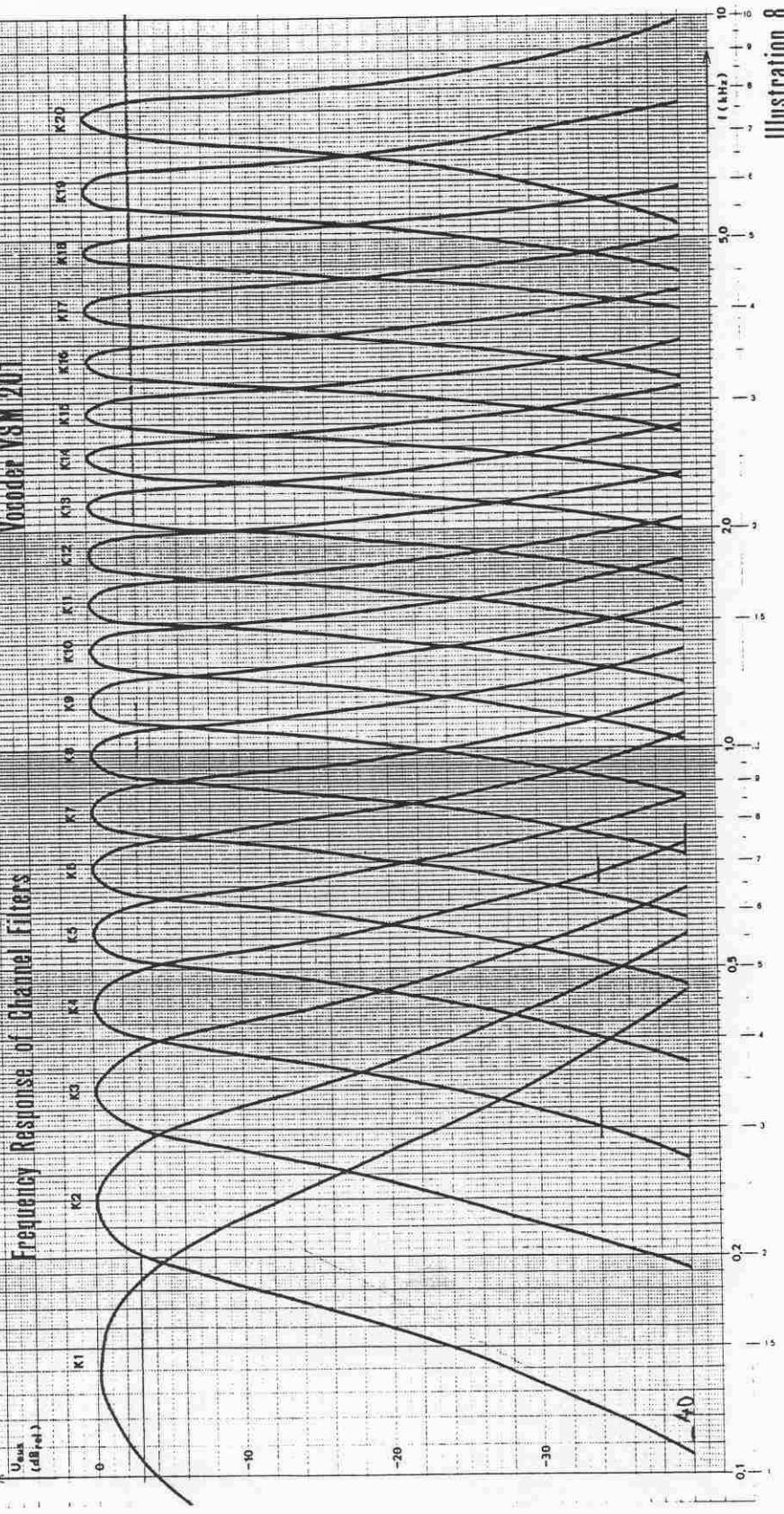


Illustration 7

Vocoder VSM 201

Frequency Response of Channel Filters



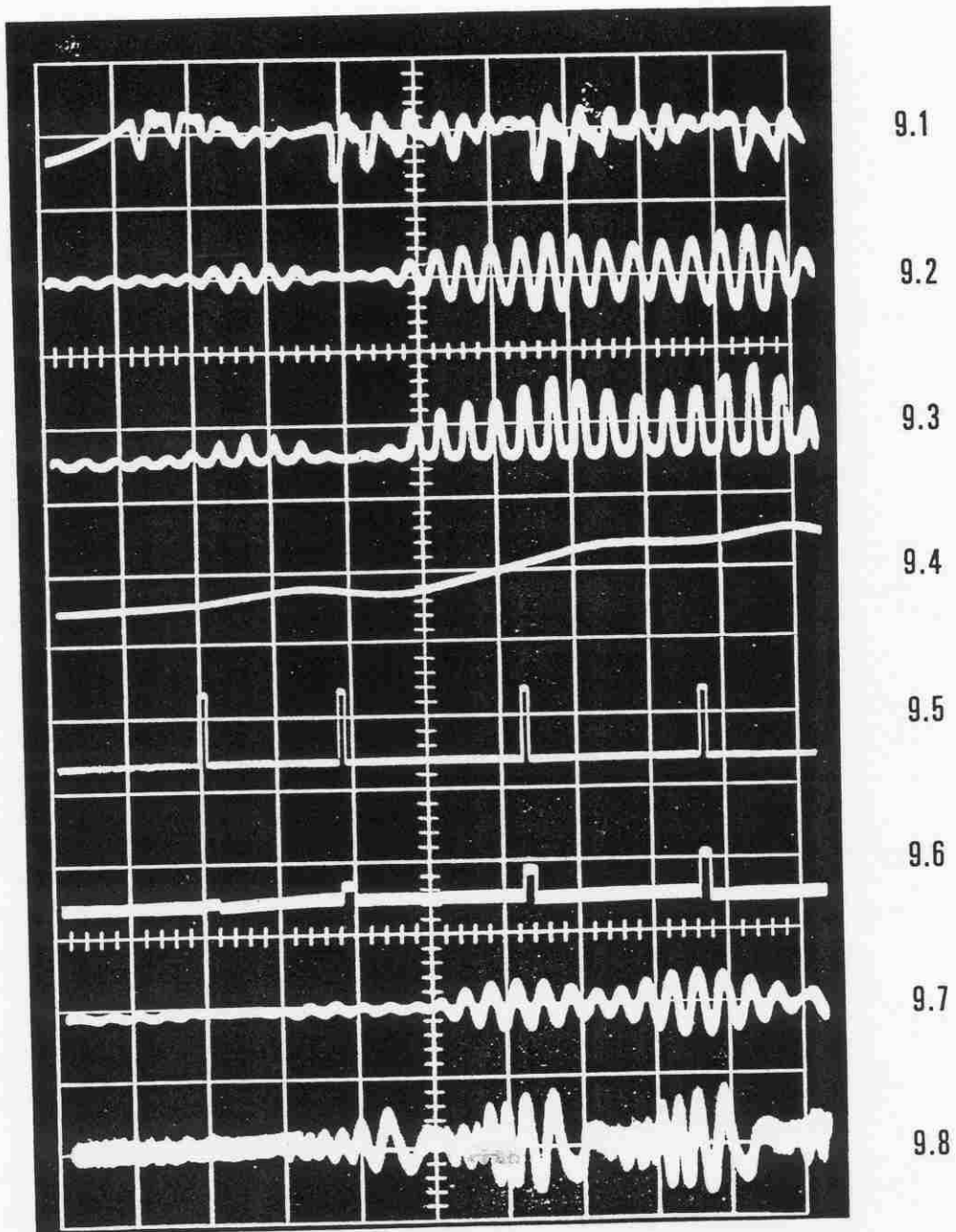


Illustration 9

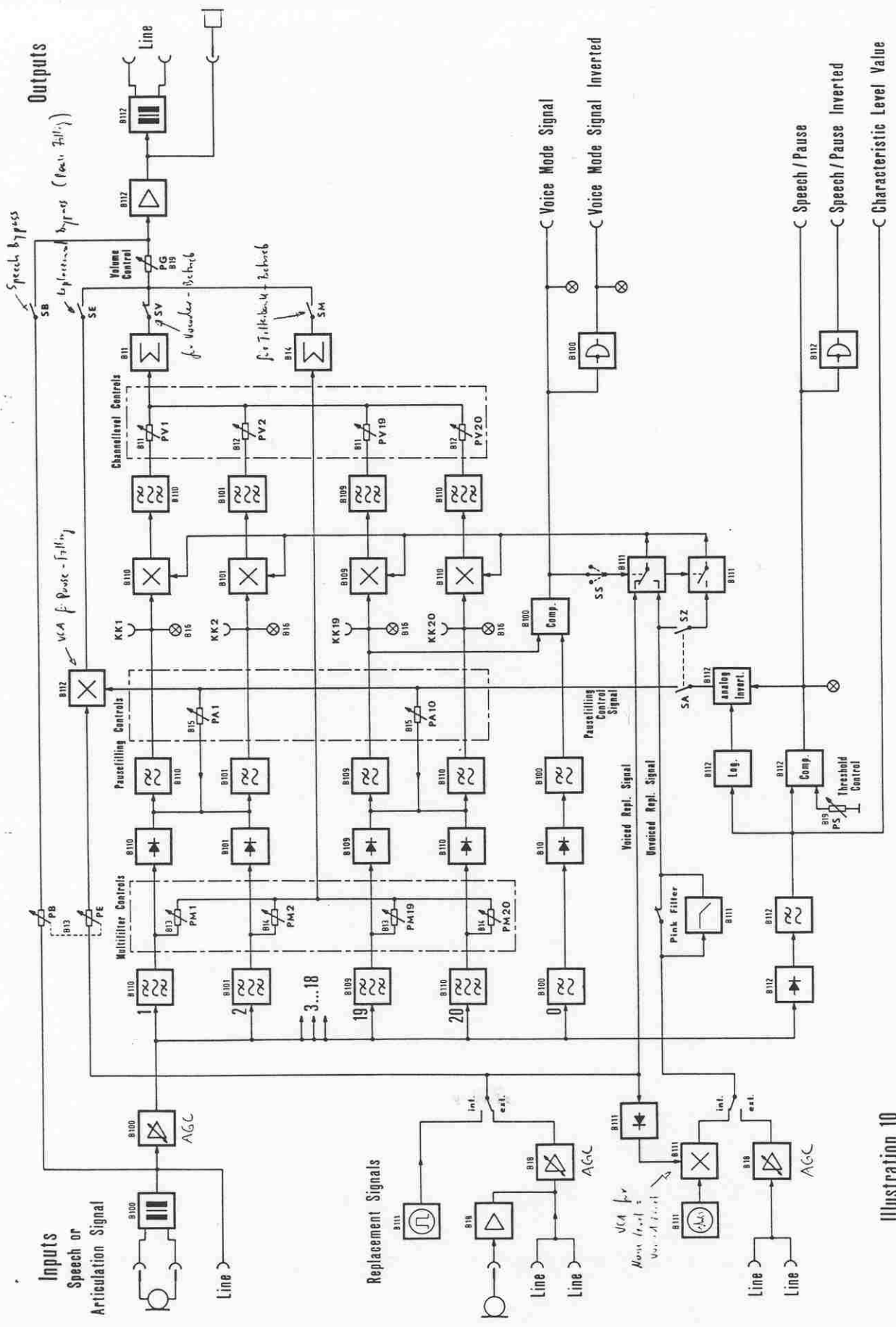


Illustration 10

Male Voice

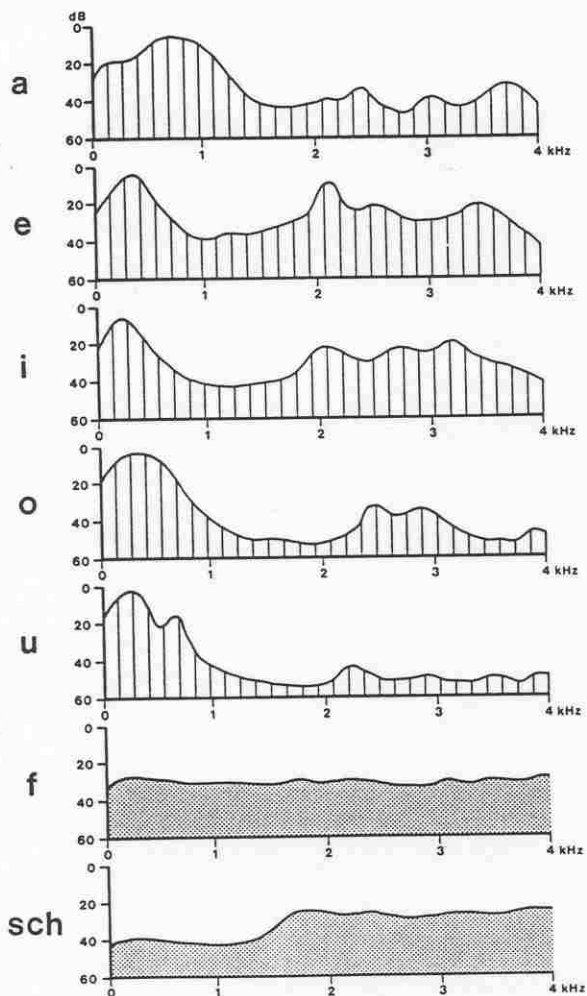


Illustration 4

Female Voice

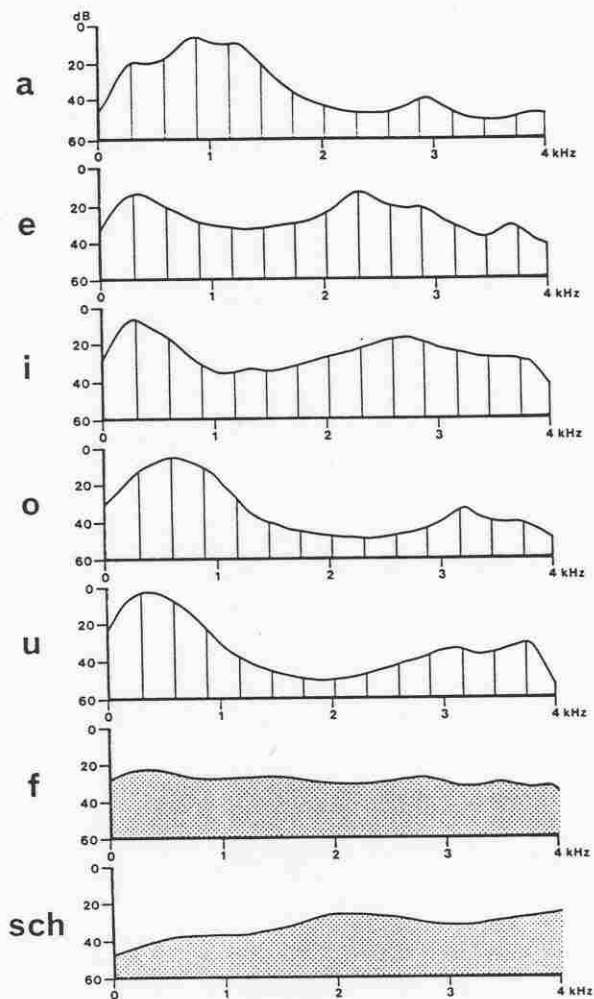


Illustration 5