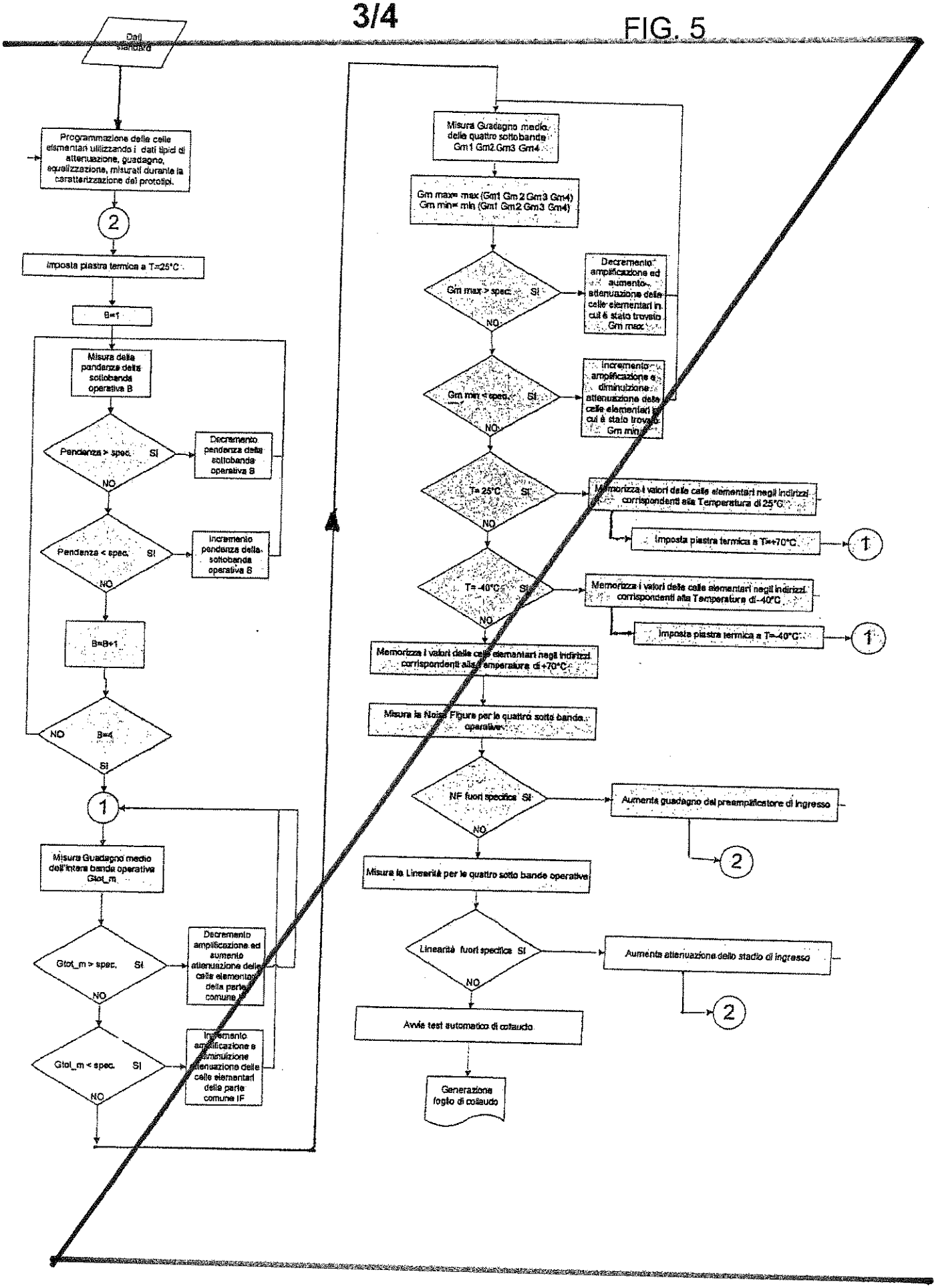
FIG. 5


Dati standard
Programmazione delle celle elementari utilizzando i dati tipici di attenuazione, guadagno, equalizzazione, misurati durante la caratterizzazione dei prototipi.
2
Imposta piastra termica a T=25°C
B=1
Misura della pendenza della sottobanda operativa B
Pendenza > spec. SI
NO
Decremento pendenza della sottobanda operativa B
Pendenza < spec. SI
NO
Incremento pendenza della sottobanda operativa B
B=B+1
NO B=4
SI
1
Misura Guadagno medio dell'intera banda operativa Gtot_m
Gtot_m > spec. SI
NO
Decremento amplificazione ed aumento attenuazione delle celle elementari della parte comune IF
Gtot_m < spec. SI
NO
Incremento amplificazione e diminuzione attenuazione delle celle elementari della parte comune IF
Misura Guadagno medio delle quattro sottobande Gm1 Gm2 Gm3 Gm4
Gm max= max (Gm1 Gm2 Gm3 Gm4)
Gm min= min (Gm1 Gm2 Gm3 Gm4)
Gm max > spec. SI
NO
Decremento amplificazione ed aumento attenuazione delle celle elementari in cui è stato trovato Gm max
Gm min < spec. SI
NO
Incremento amplificazione e diminuzione attenuazione delle celle elementari in cui è stato trovato Gm min
T= 25°C SI
NO
Memorizza i valori delle celle elementari negli indirizzi corrispondenti alla Temperatura di 25°C
Imposta piastra termica a T=+70°C
1
T= -40°C SI
NO
Memorizza i valori delle celle elementari negli indirizzi corrispondenti alla Temperatura di -40°C
Imposta piastra termica a T=-40°C
1
Memorizza i valori delle celle elementari negli indirizzi corrispondenti alla Temperatura di +70°C
Misura la Noise Figure per le quattro sotto bande operative
NF fuori specifica SI
NO
Aumenta guadagno del preamplificatore di ingresso
2
Misura la Linearità per le quattro sotto bande operative
Linearità fuori specifica SI
NO
Aumenta attenuazione dello stadio di ingresso
2
Avvio test automatico di collaudo
Generazione foglio di collaudo

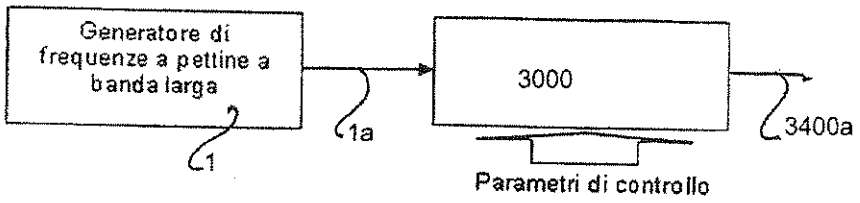


Fig.6

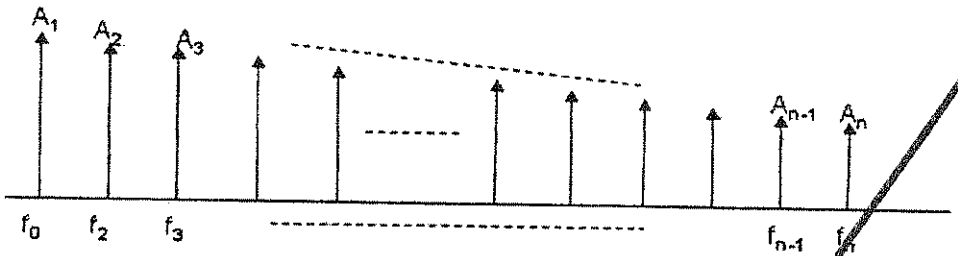


Fig.7

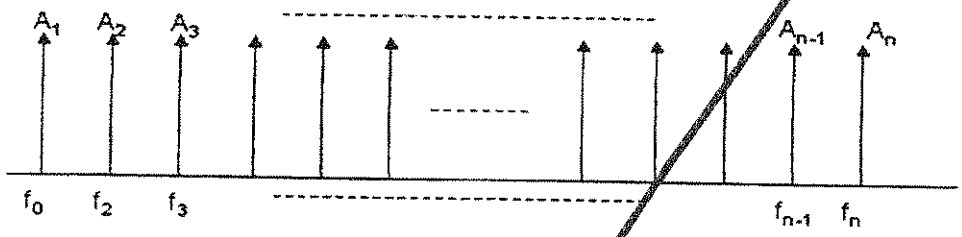


Fig.8

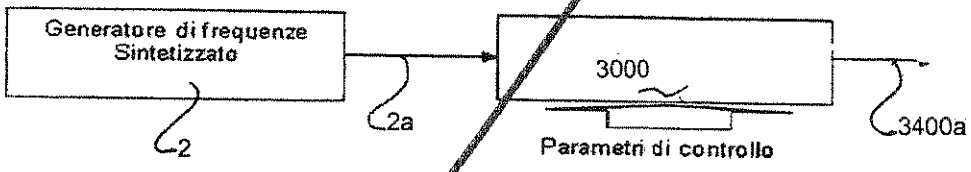


Fig.9

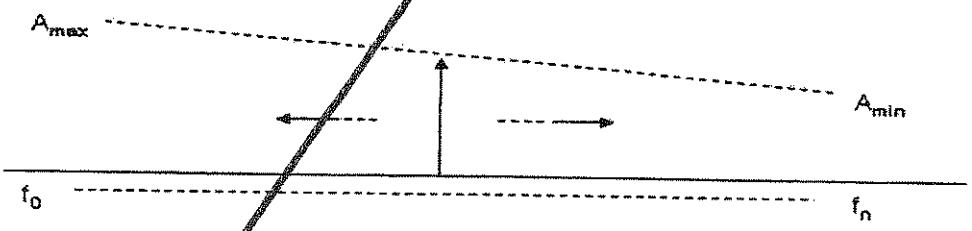


Fig.10

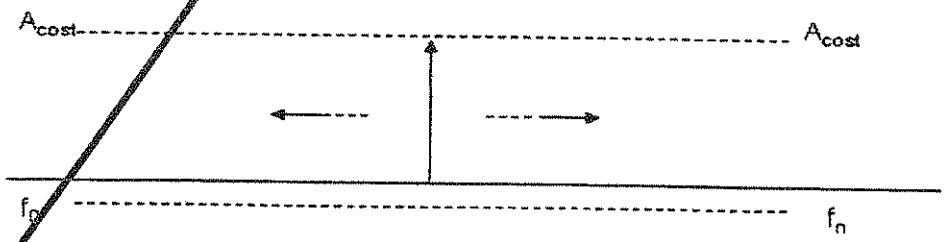
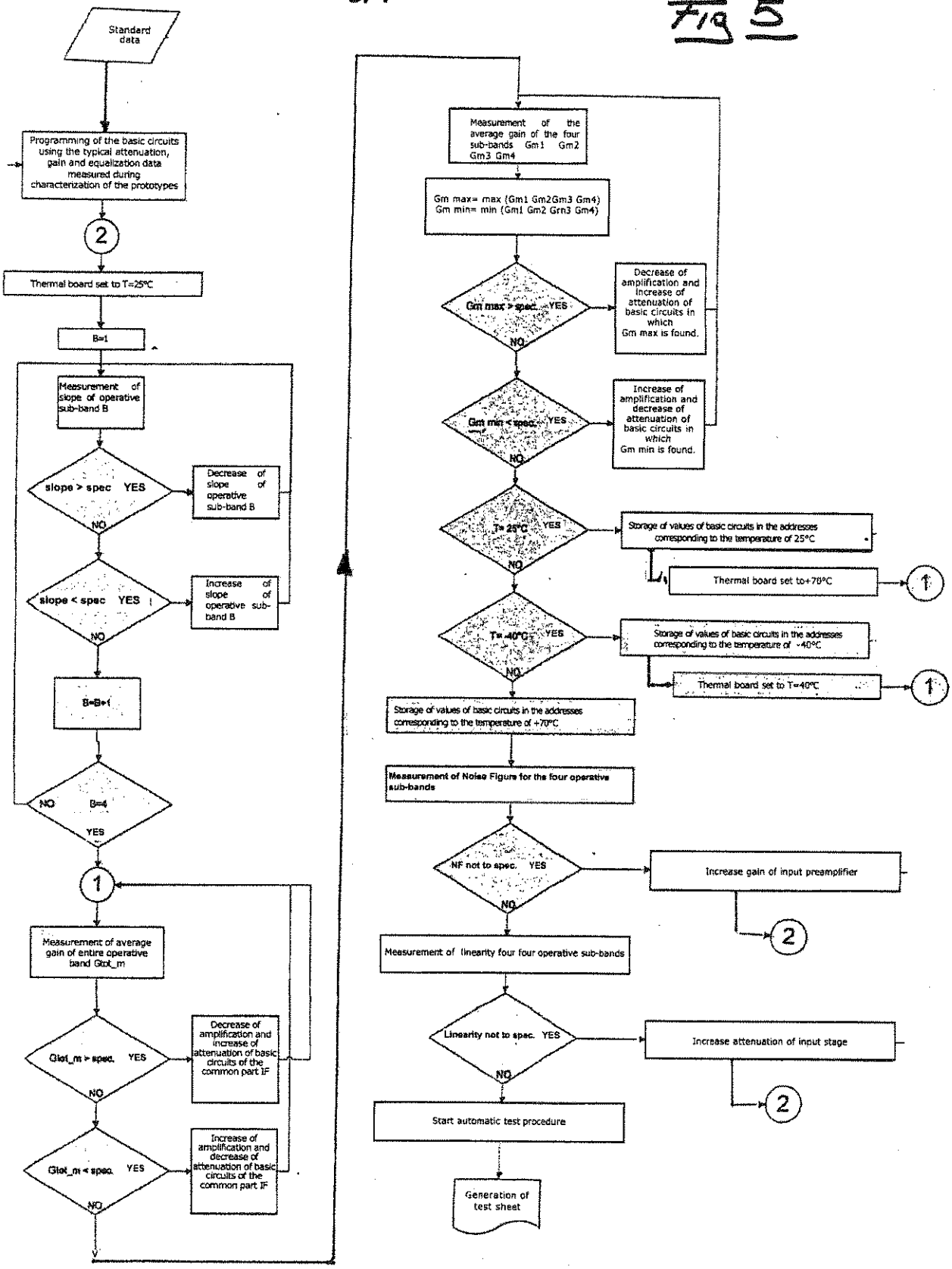


Fig.11

Fig 5


Standard data
Programming of the basic circuits using the typical attenuation, gain and equalization data measured during characterization of the prototypes
2
Thermal board set to T=25°C
B=1
Measurement of slope of operative sub-band B
slope > spec YES
NO
Decrease of slope of operative sub-band B
slope < spec YES
NO
Increase of slope of operative sub-band B
B=B+1
NO B=4
YES
1
Measurement of average gain of entire operative band Gtot_m
Gtot_m > spec. YES
NO
Decrease of amplification and increase of attenuation of basic circuits of the common part IF
Gtot_m < spec. YES
NO
Increase of amplification and decrease of attenuation of basic circuits of the common part IF
Measurement of the average gain of the four sub-bands Gm1 Gm2 Gm3 Gm4
Gm max= max (Gm1 Gm2Gm3 Gm4)
Gm min= min (Gm1 Gm2 Grn3 Gm4)
Gm max > spec. YES
NO
Decrease of amplification and increase of attenuation of basic circuits in which Gm max is found.
Gm min < spec. YES
NO
Increase of amplification and decrease of attenuation of basic circuits in which Gm min is found.
T= 25°C YES
NO
Storage of values of basic circuits in the addresses corresponding to the temperature of 25°C
Thermal board set to+70°C
1
T= -40°C YES
NO
Storage of values of basic circuits in the addresses corresponding to the temperature of -40°C
Thermal board set to T=-40°C
1
Storage of values of basic circuits in the addresses corresponding to the temperature of +70°C
Measurement of Noise Figure for the four operative sub-bands
NF not to spec. YES
NO
Increase gain of input preamplifier
2
Measurement of linearity four four operative sub-bands
Linearity not to spec. YES
NO
Increase attenuation of input stage
2
Start automatic test procedure
Generation of test sheet

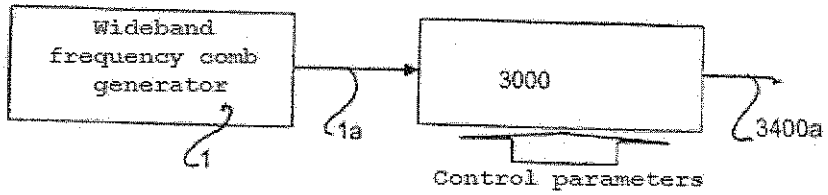


Fig.6

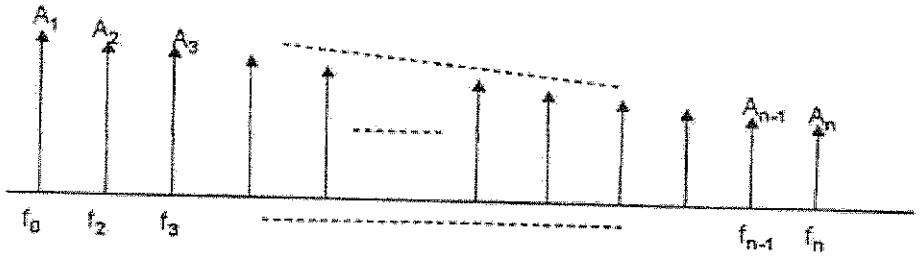


Fig.7

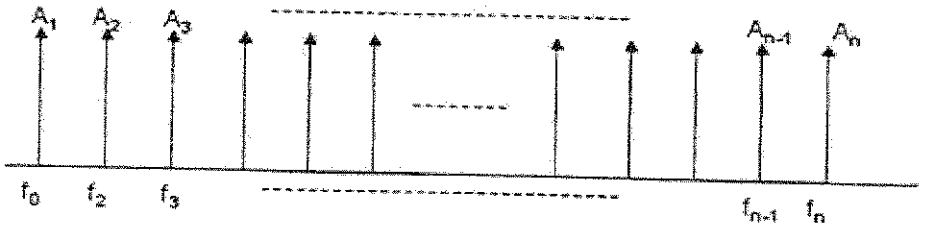


Fig.8

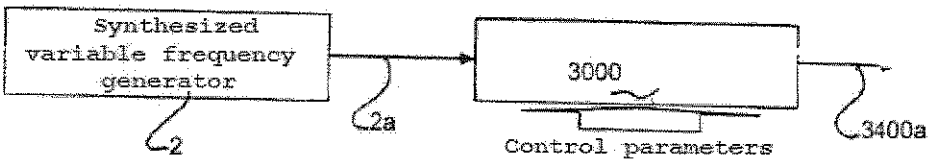


Fig.9

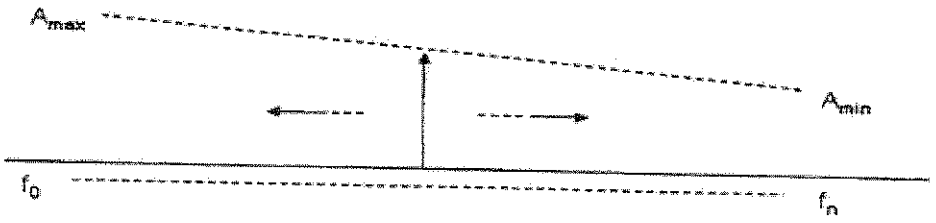


Fig.10

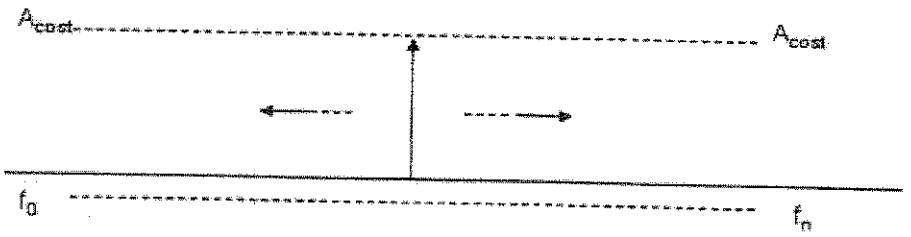


Fig.11