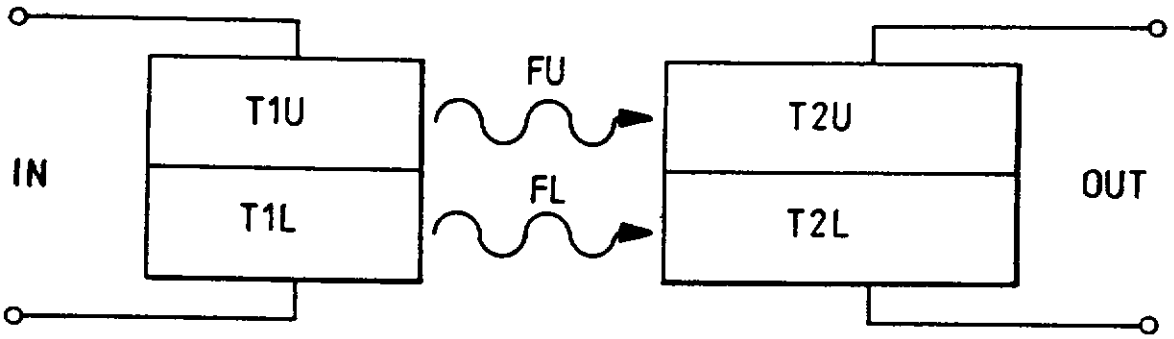


FIG.1

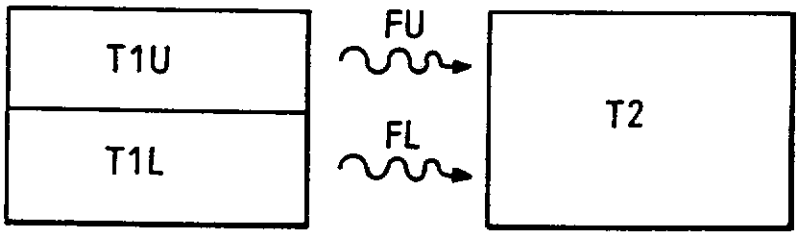


FIG.2

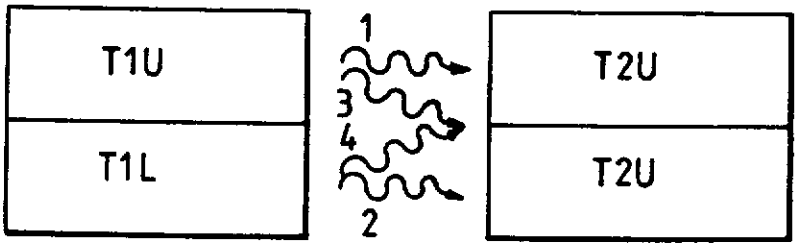


FIG.3

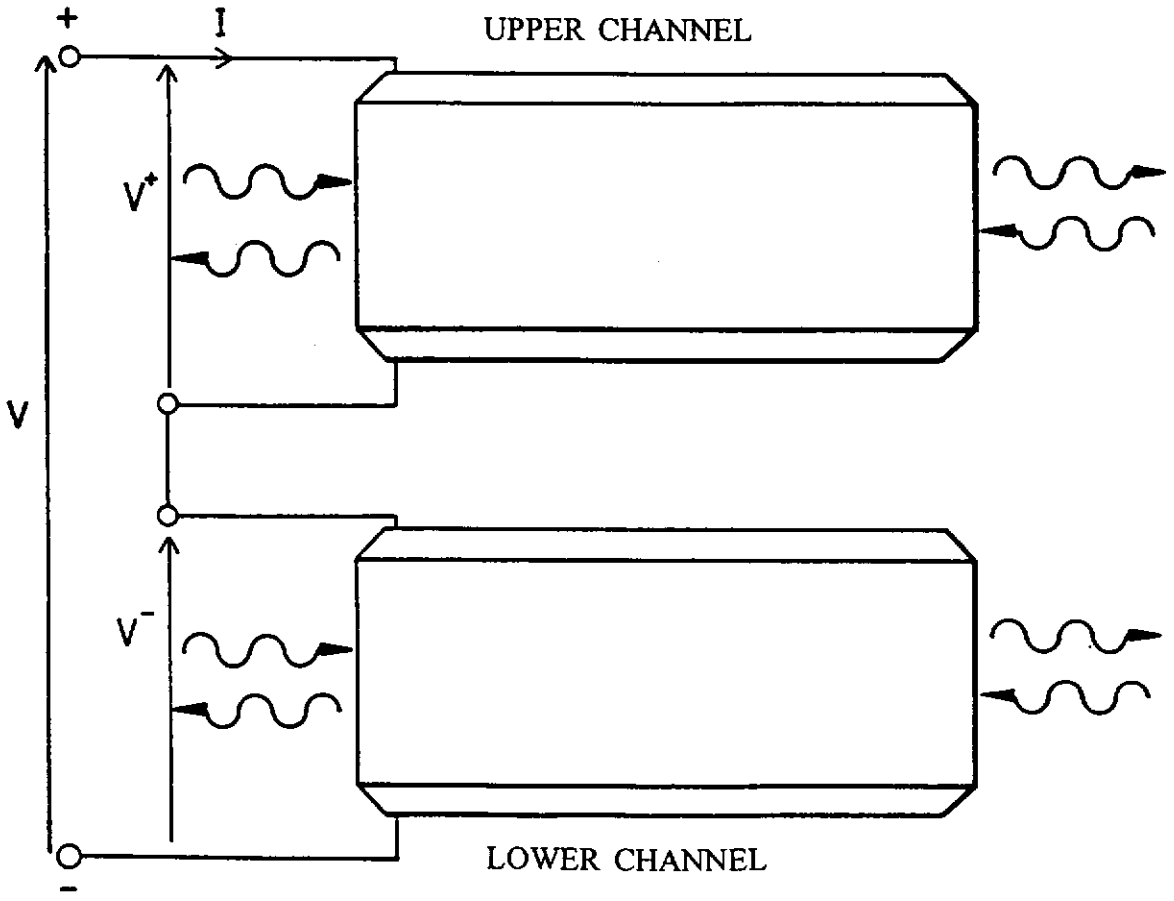


FIG.4

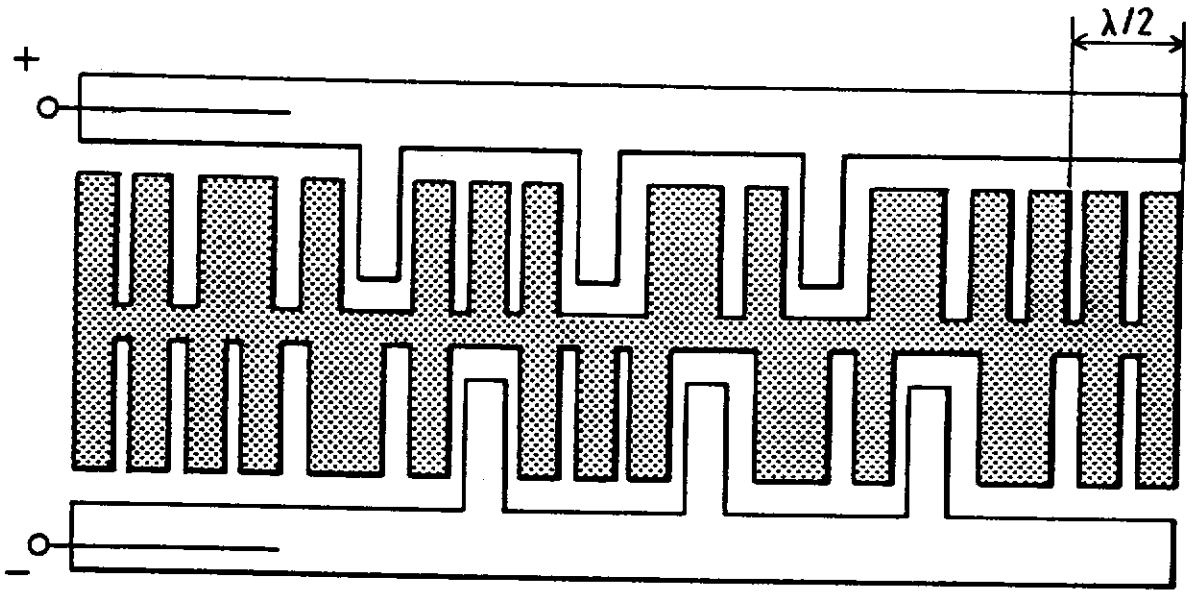


FIG.5

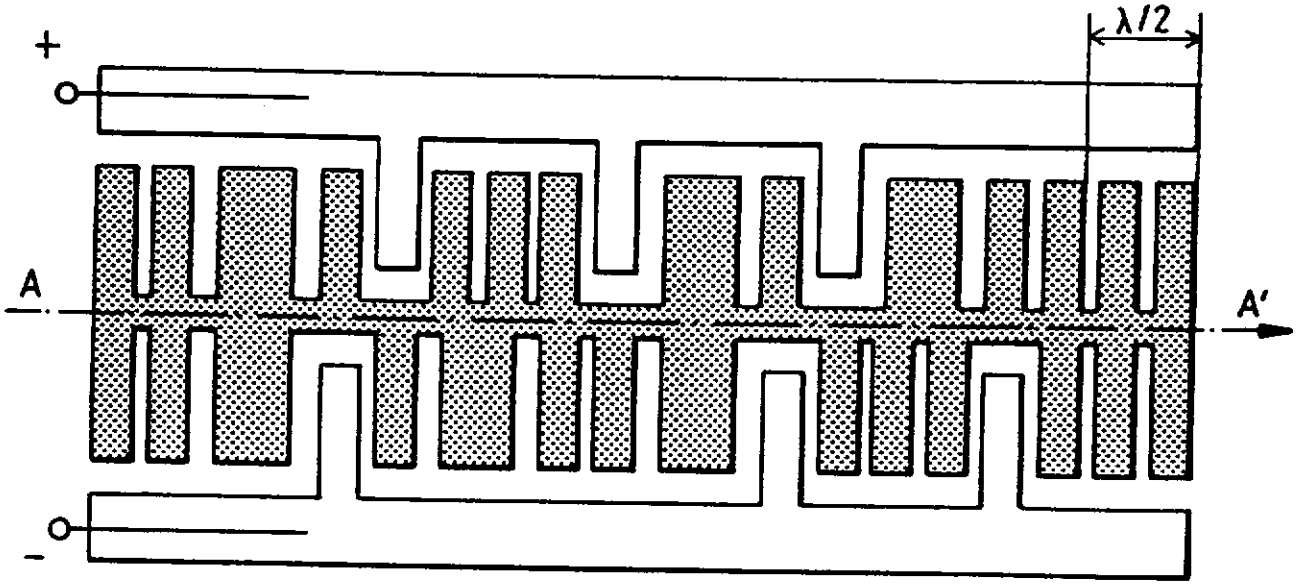


FIG.6

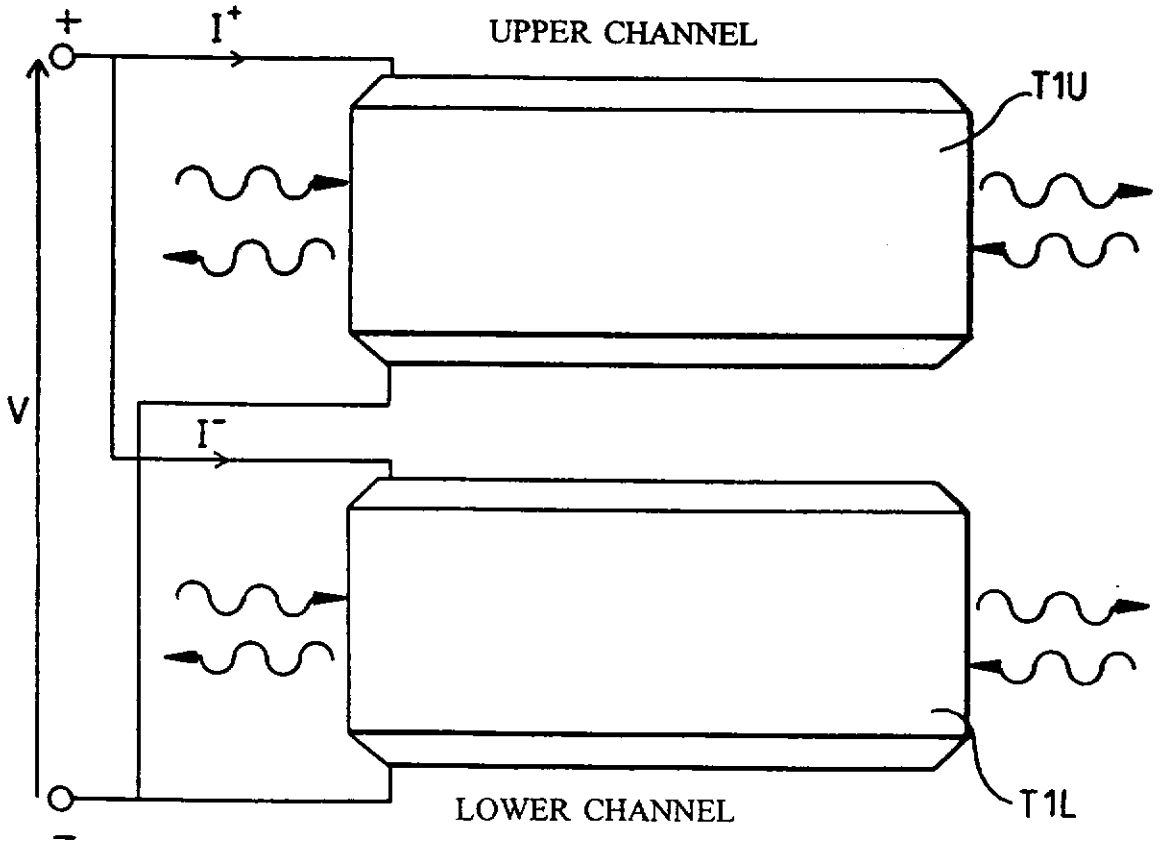


FIG.7

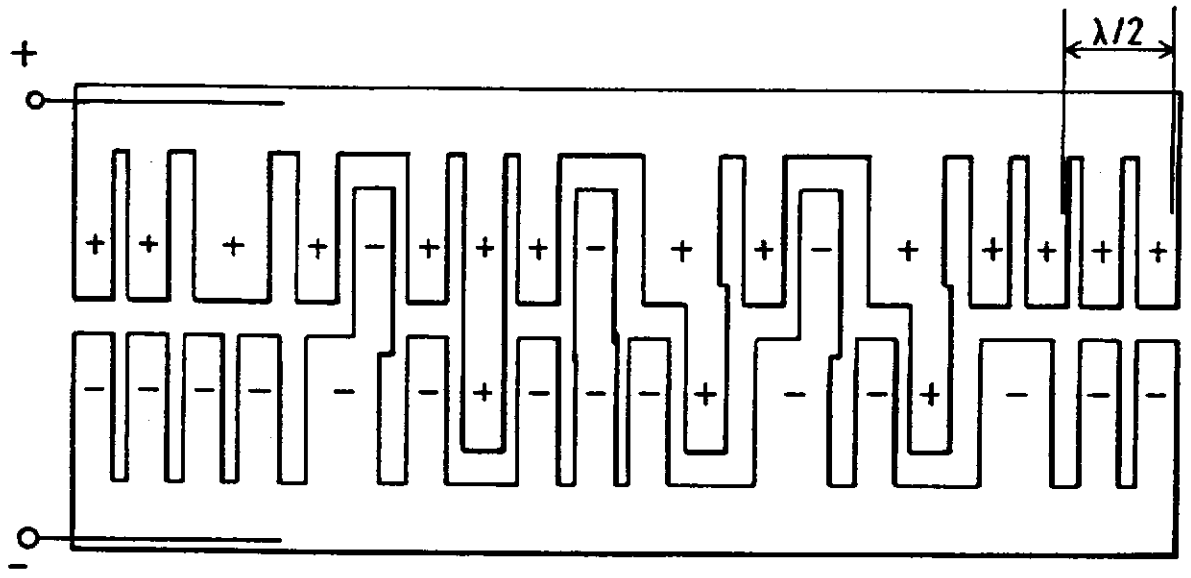


FIG.8

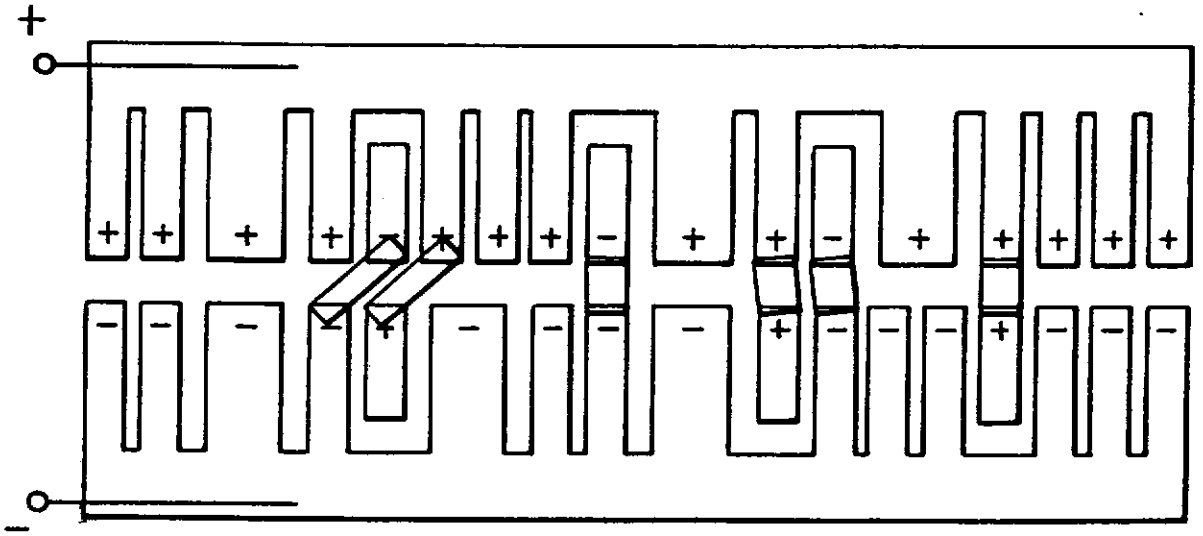
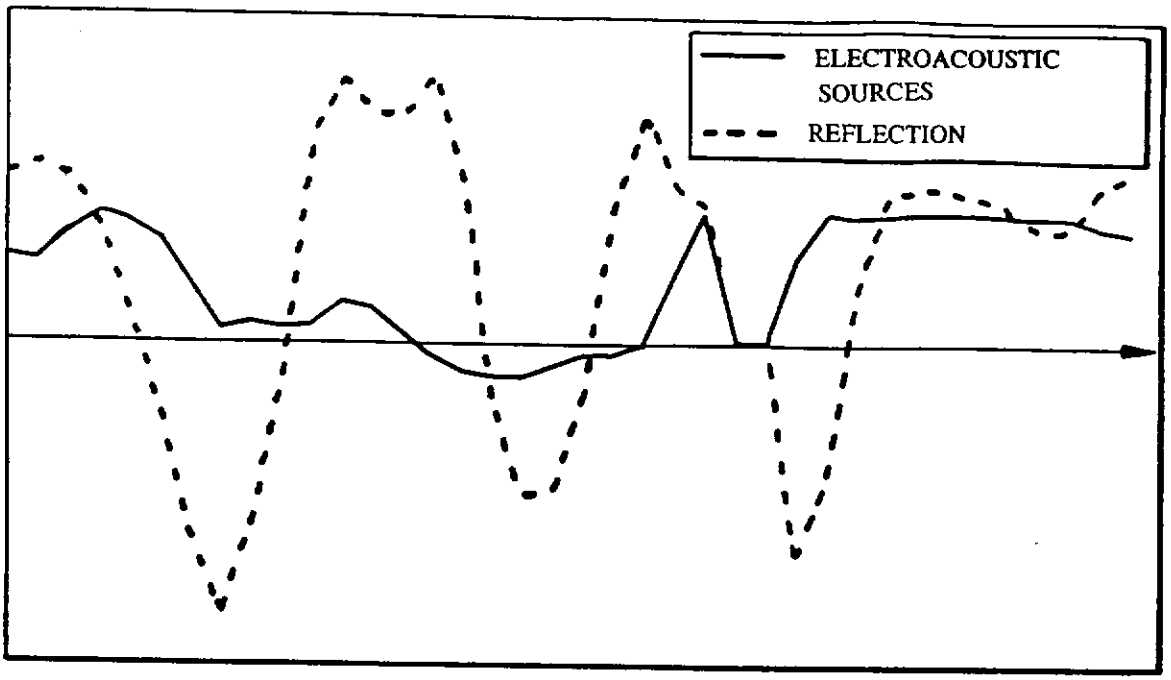


FIG.9

UPPER CHANNEL



LOWER CHANNEL

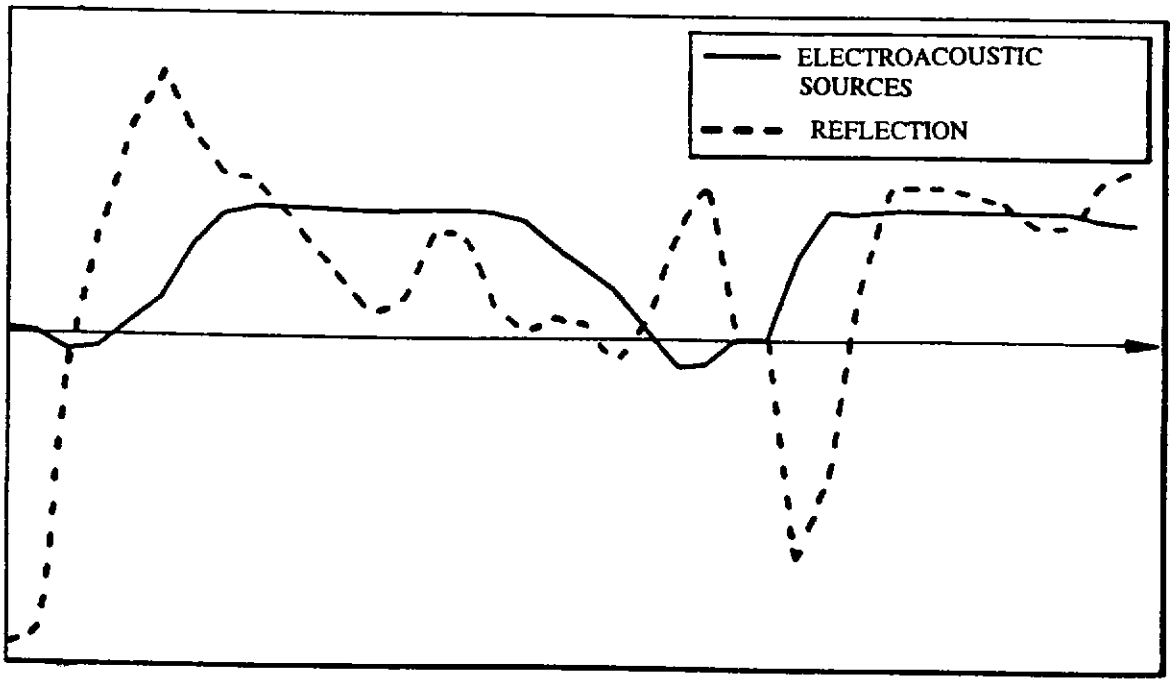


FIG.10

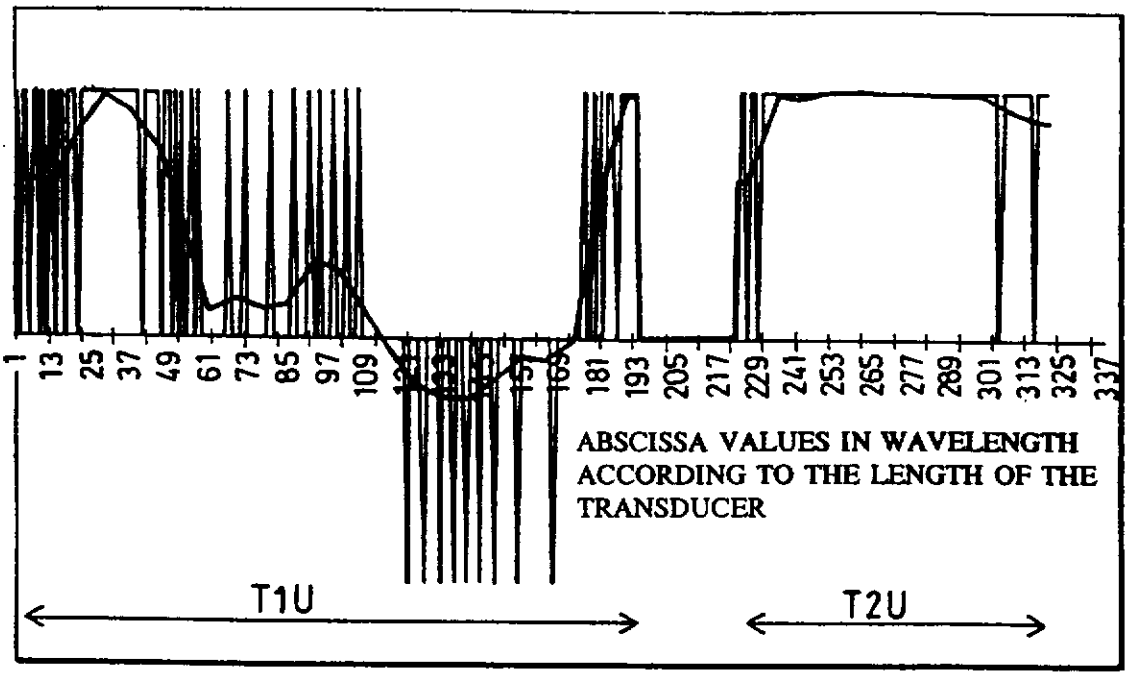

1
13
25
37
49
61
73
85
97
109
181
193
205
217
229
241
253
265
277
289
301
313
325
337
ABSCISSA VALUES IN WAVELENGTH ACCORDING TO THE LENGTH OF THE TRANSDUCER
T1U
T2U

FIG.11

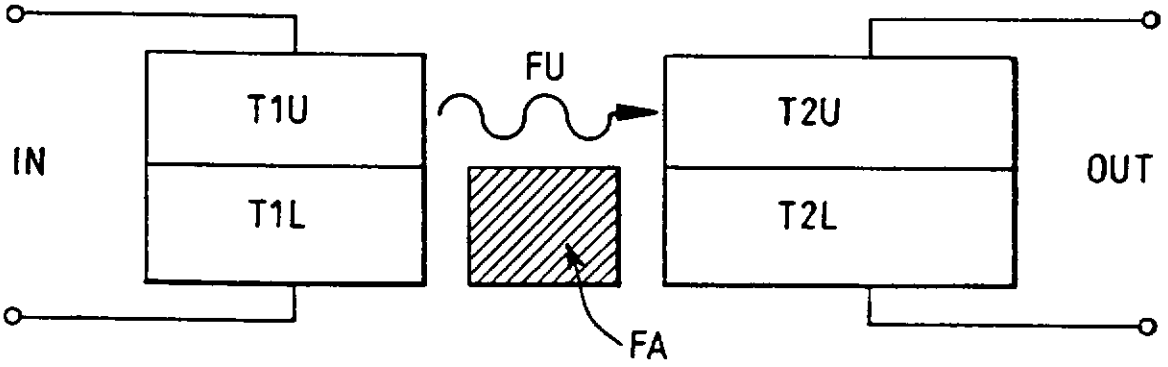

IN
T1U
T1L
FU
T2U
T2L
OUT
FA

FIG.12

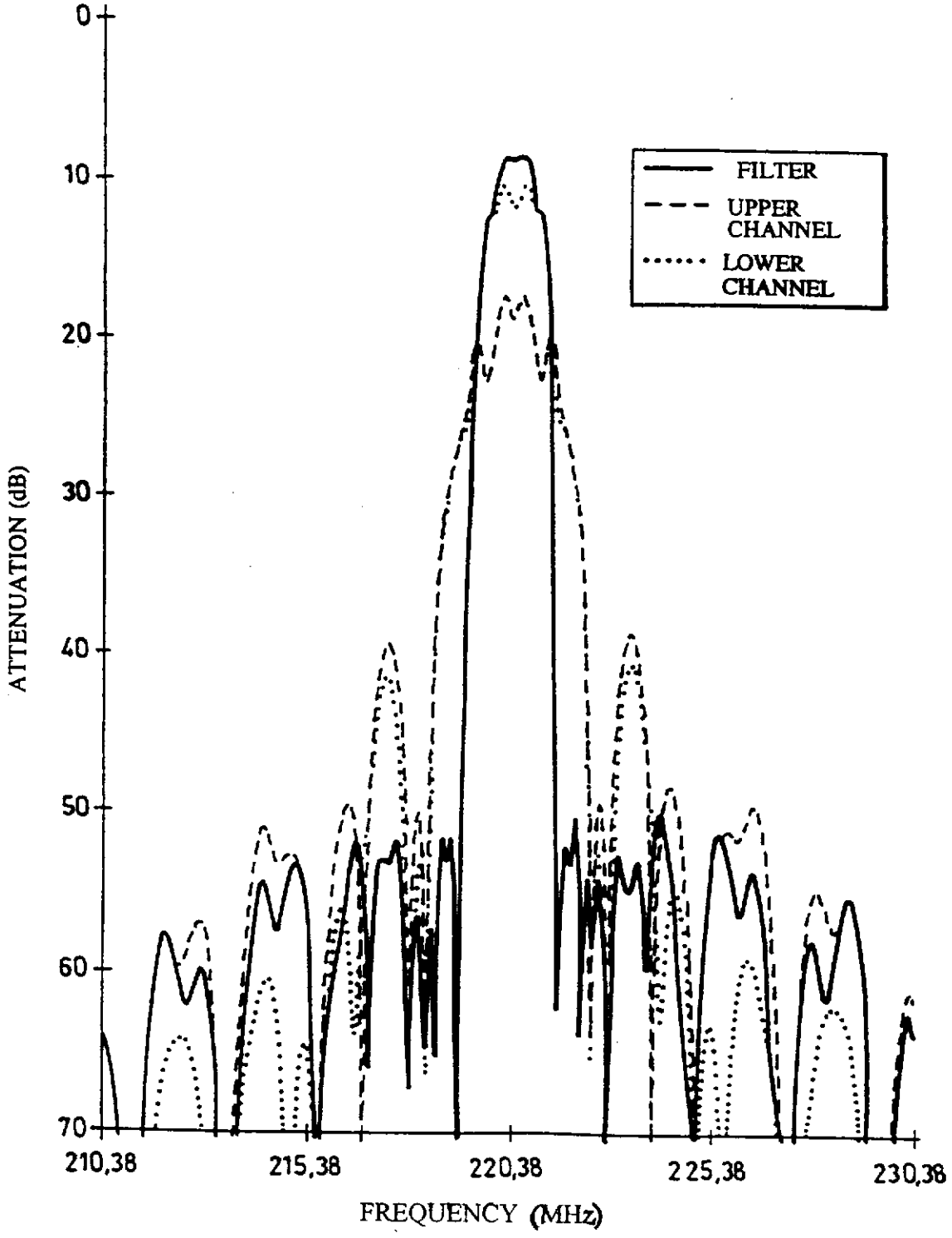

0
10
20
30
40
50
60
70
ATTENUATION (dB)
FILTER
UPPER CHANNEL
LOWER CHANNEL
210,38
215,38
220,38
225,38
230,38
FREQUENCY (MHz)

FIG.13

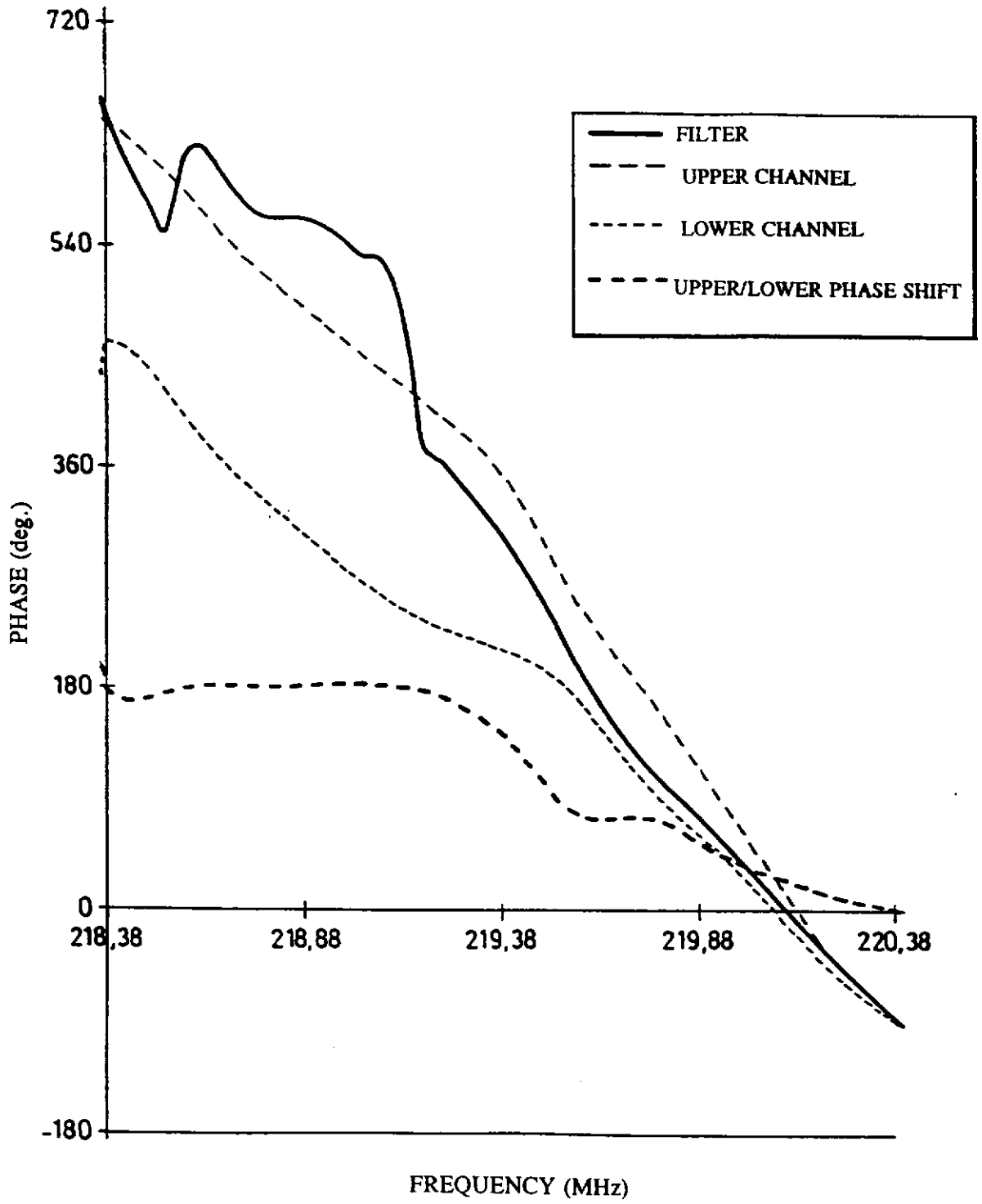

720
540
360
180
0
-180
PHASE (deg.)
218,38
218,88
219,38
219,88
220,38
FREQUENCY (MHz)
FILTER
UPPER CHANNEL
LOWER CHANNEL
UPPER/LOWER PHASE SHIFT

FIG. 14