

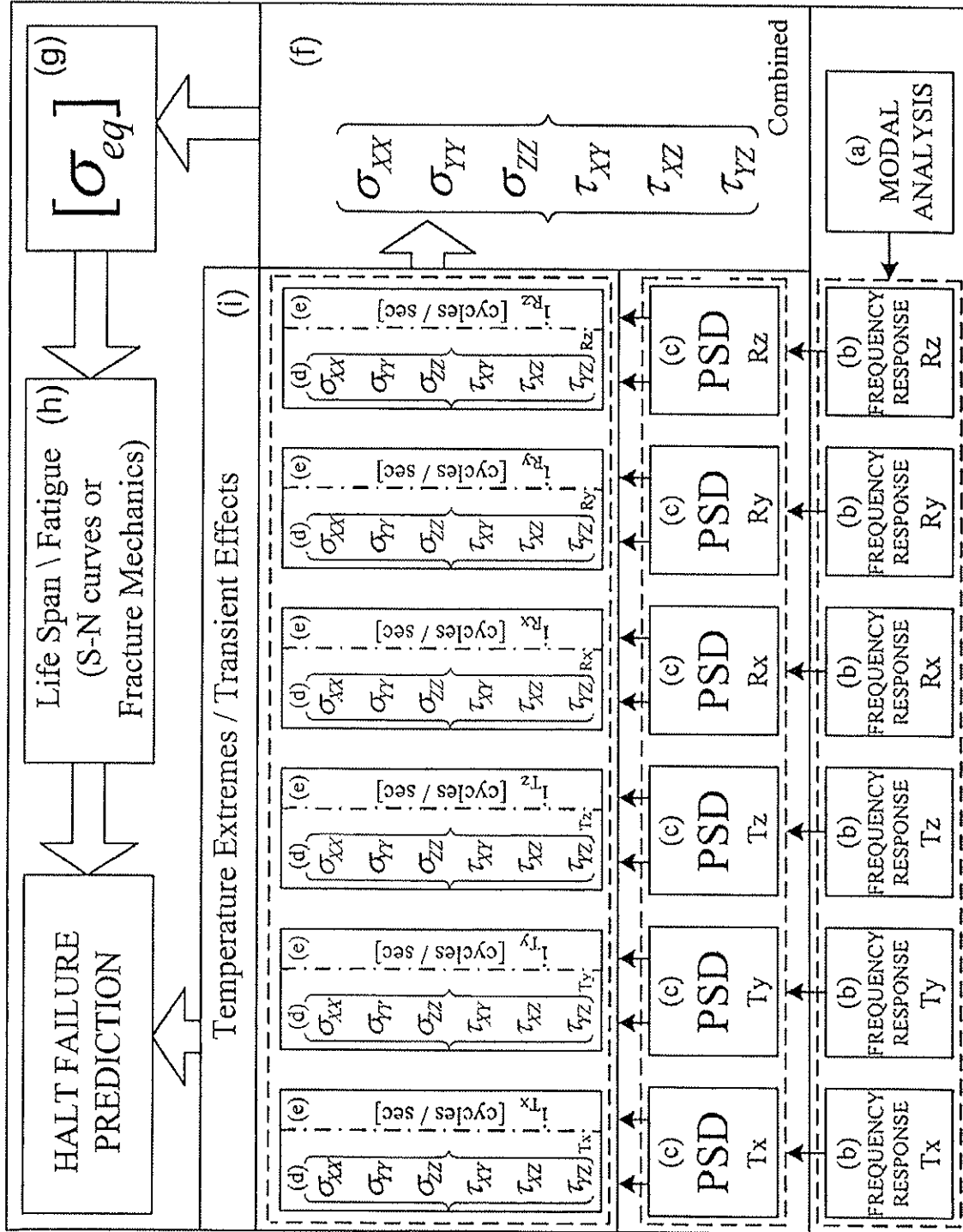


Fig. 1 PRIOR ART (HYPOTHETICAL)

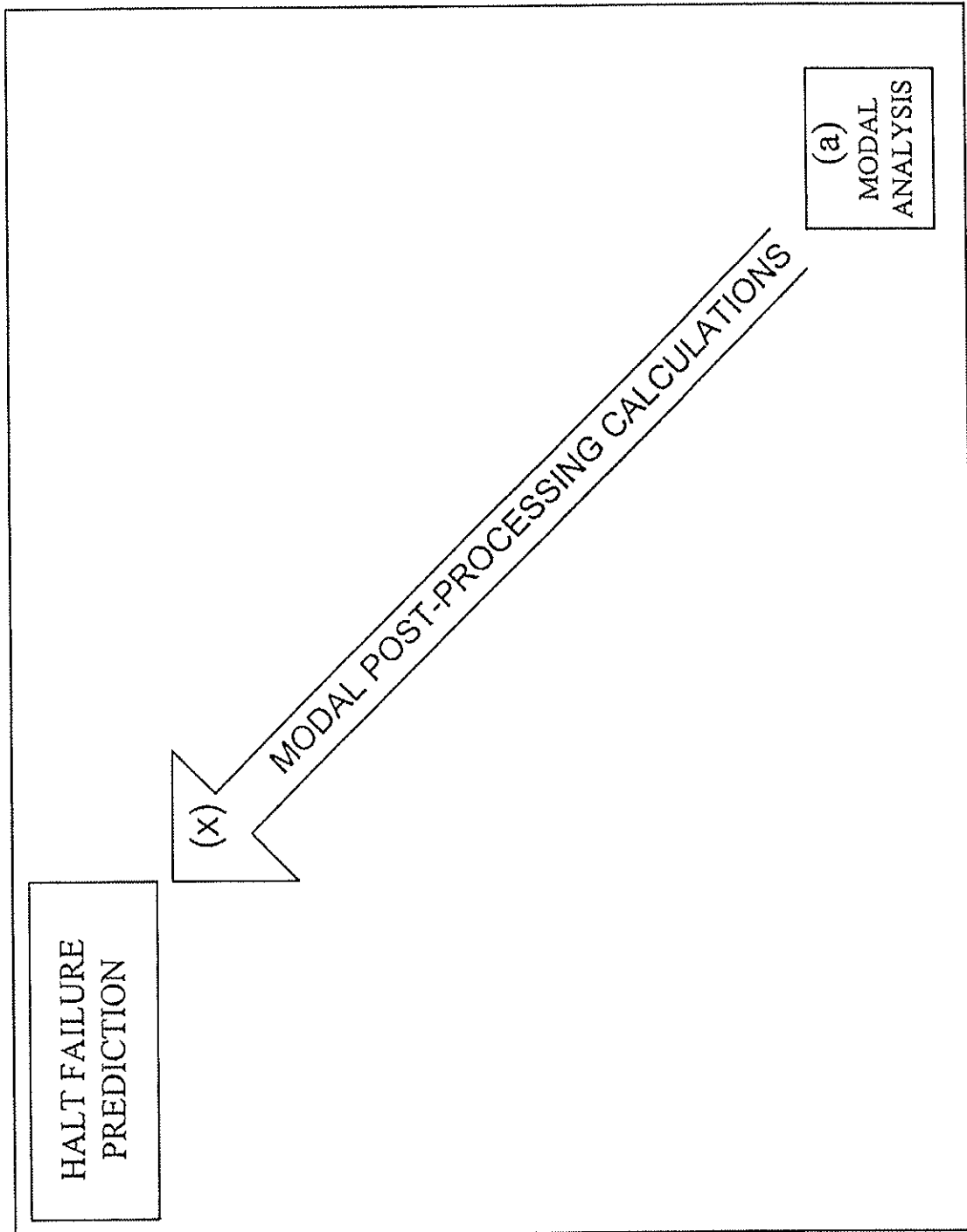


Fig. 2

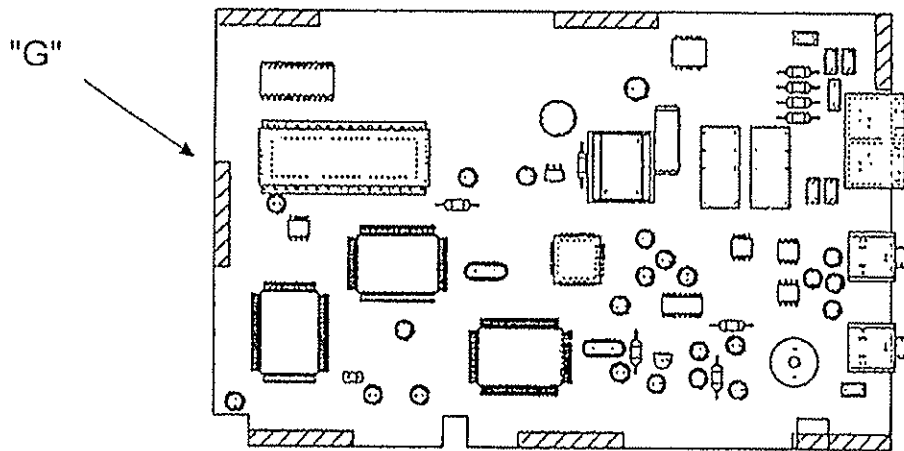


Fig. 3a

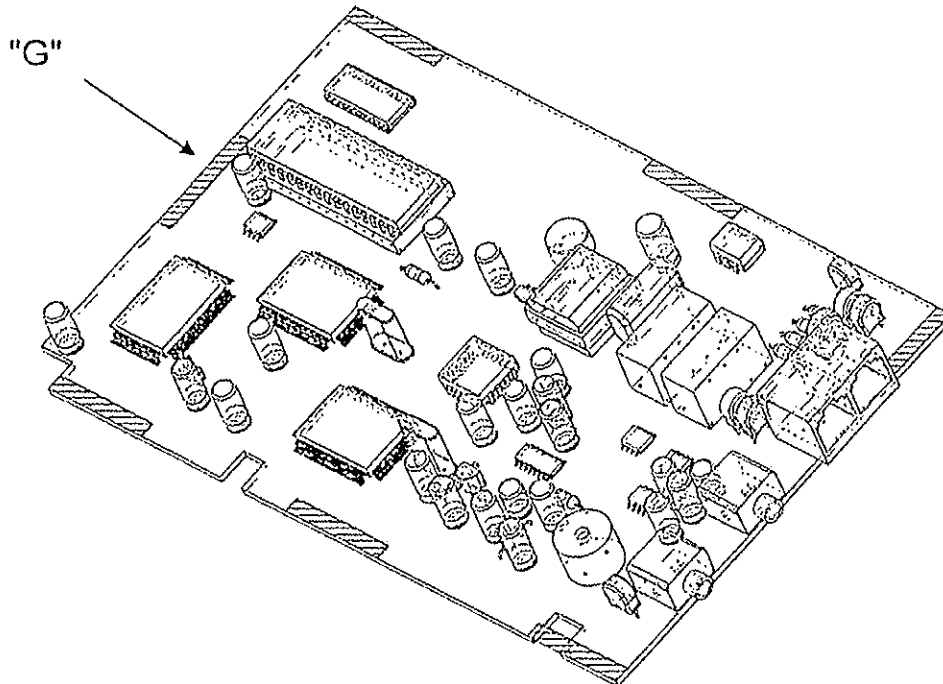


Fig. 3b

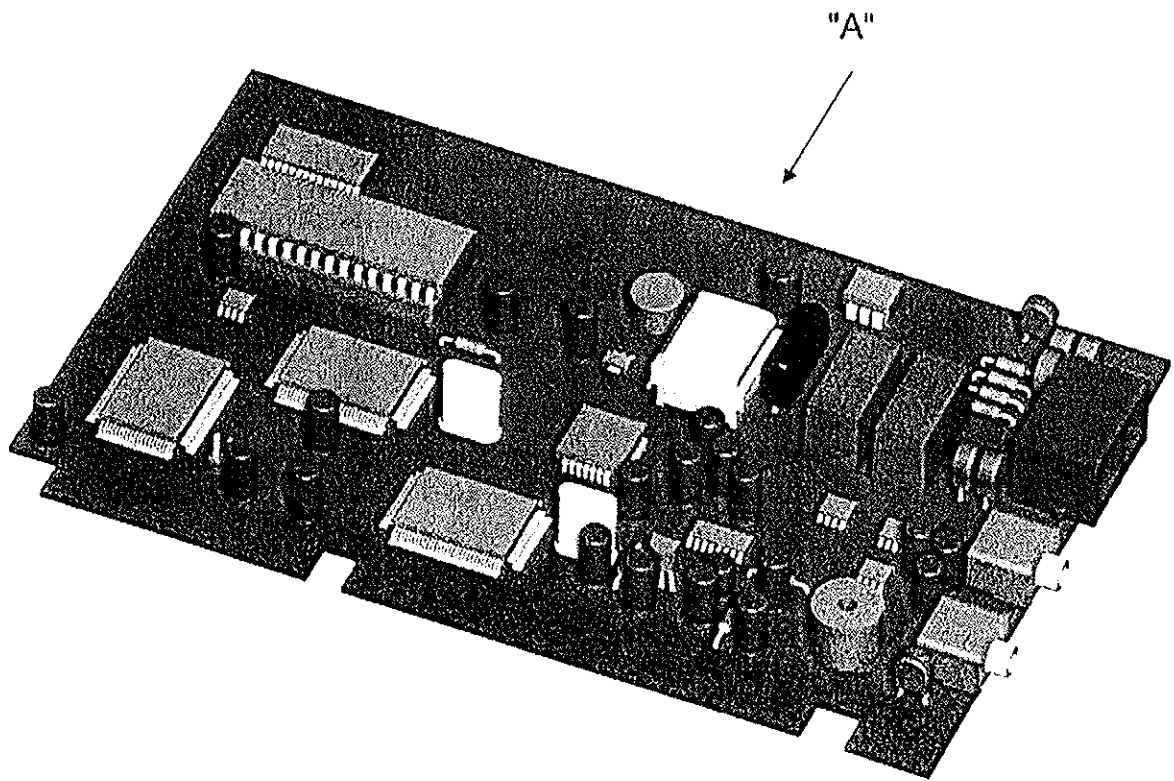


Fig. 3c

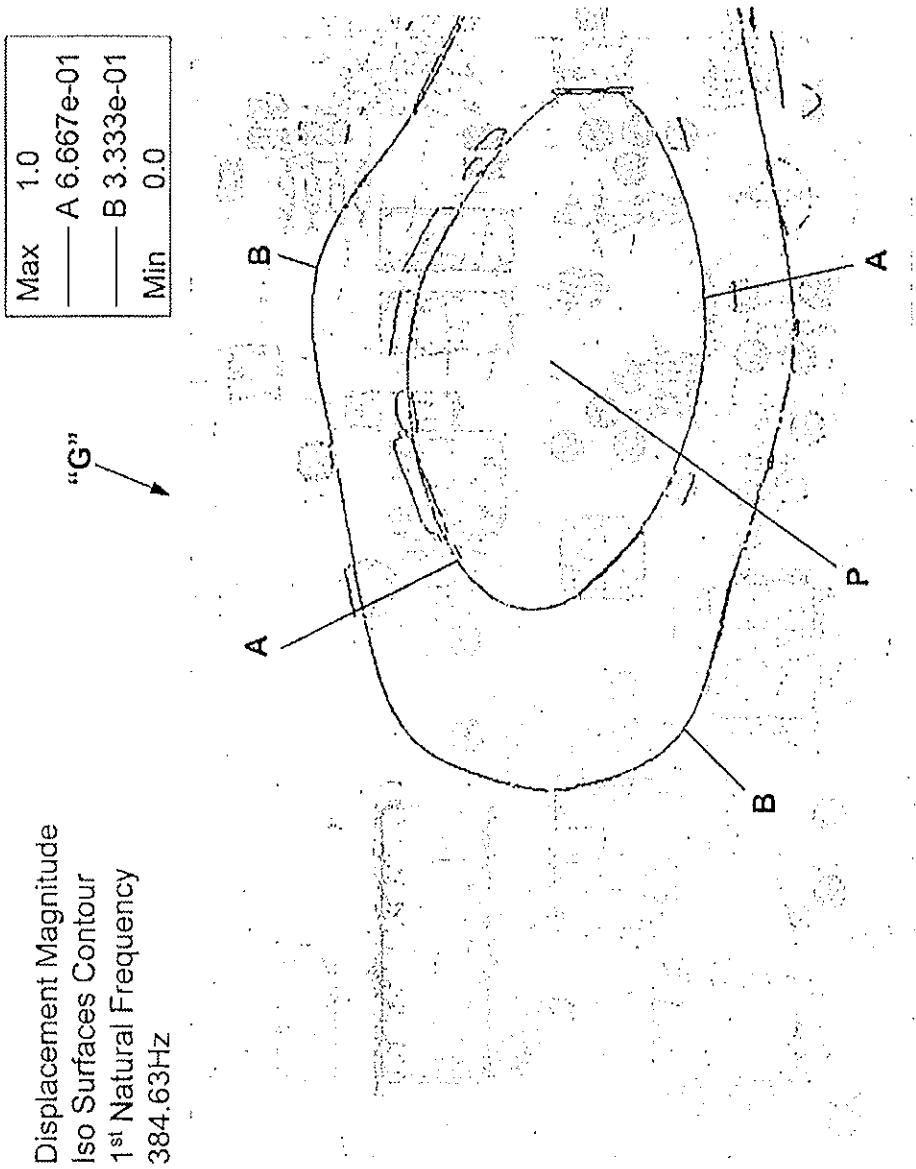


Fig. 4a

Displacement Magnitude
Deformed Shape
1st Natural Frequency
384.63Hz

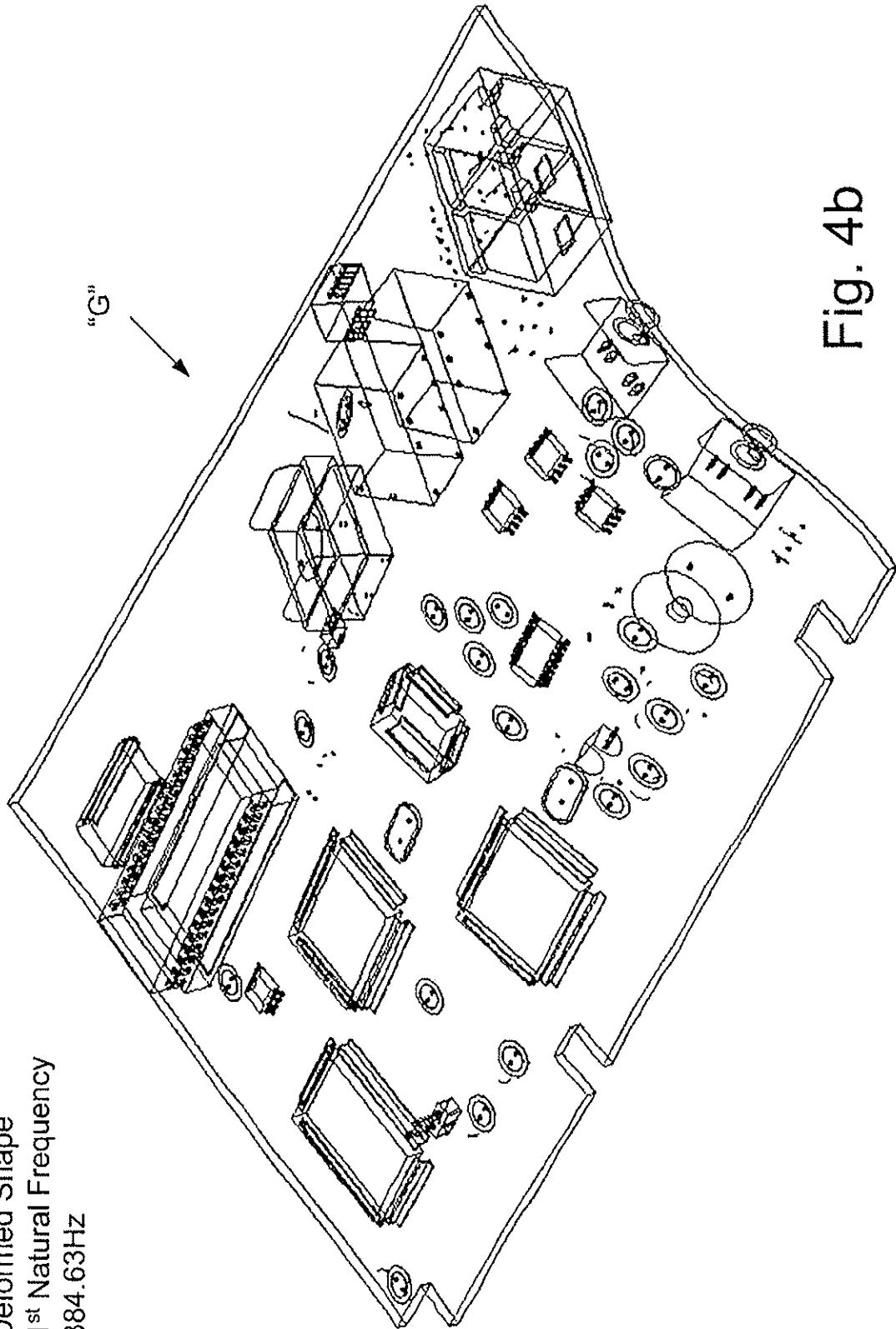


Fig. 4b

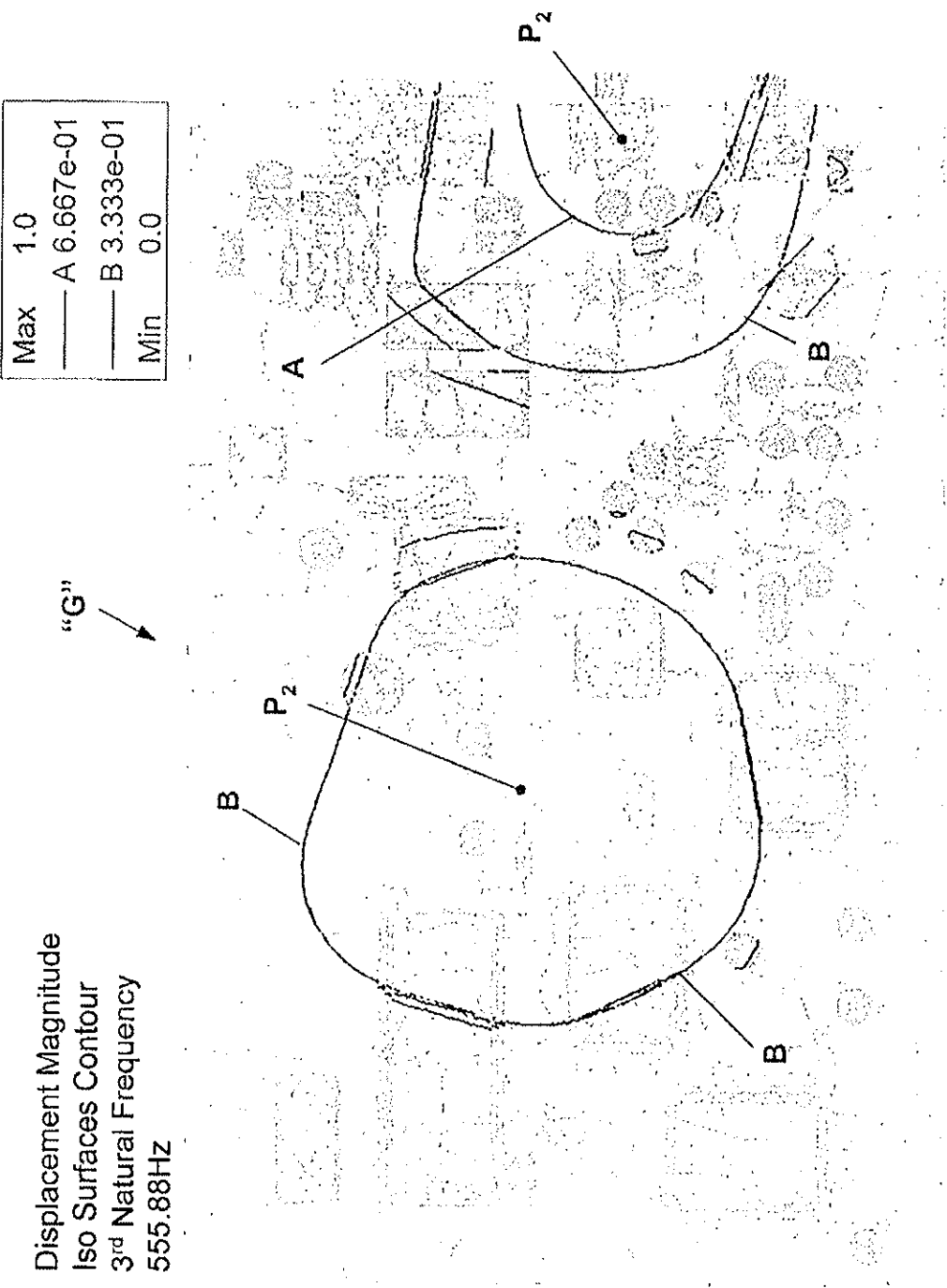


Fig. 5a

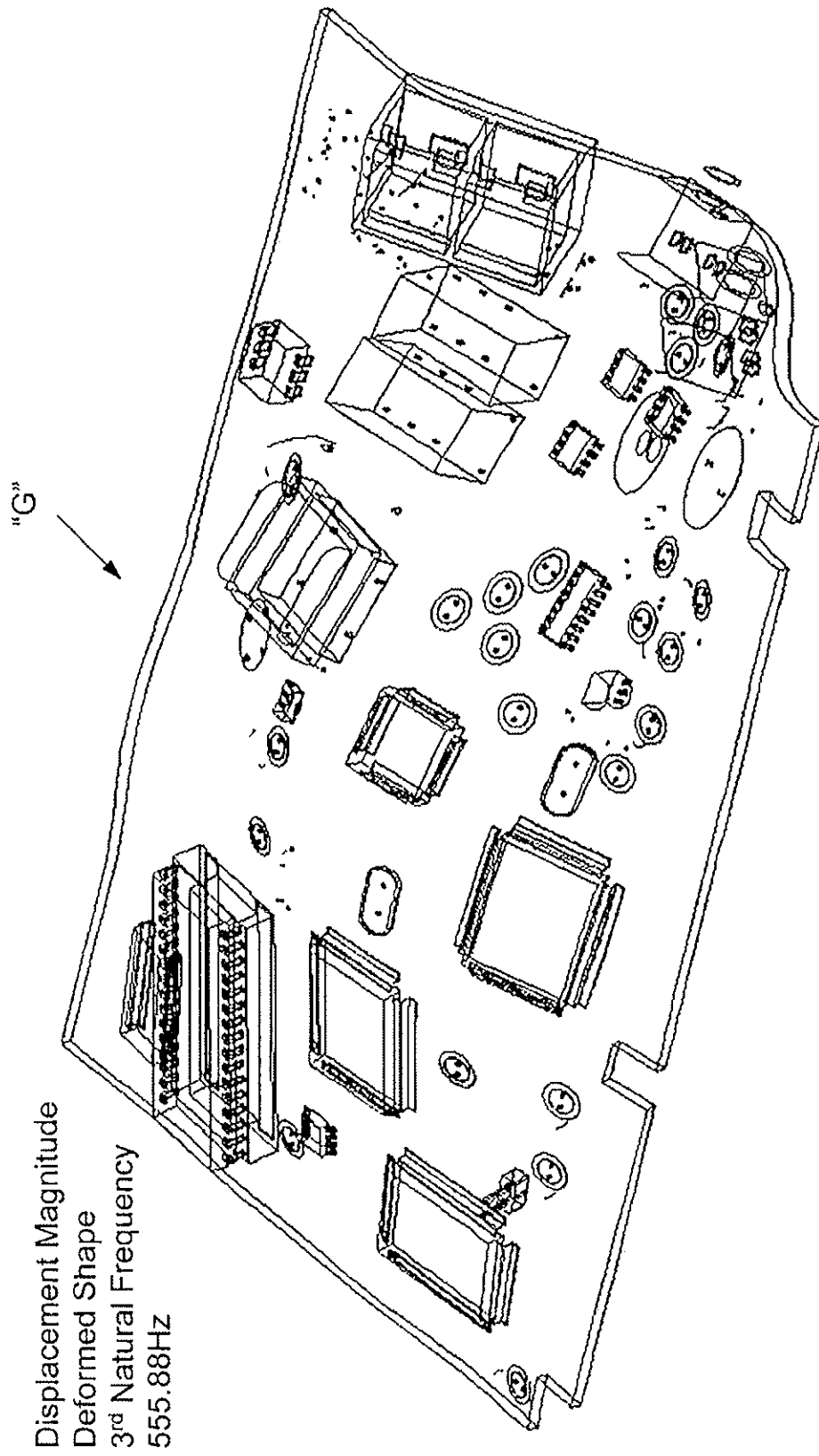


Fig. 5b

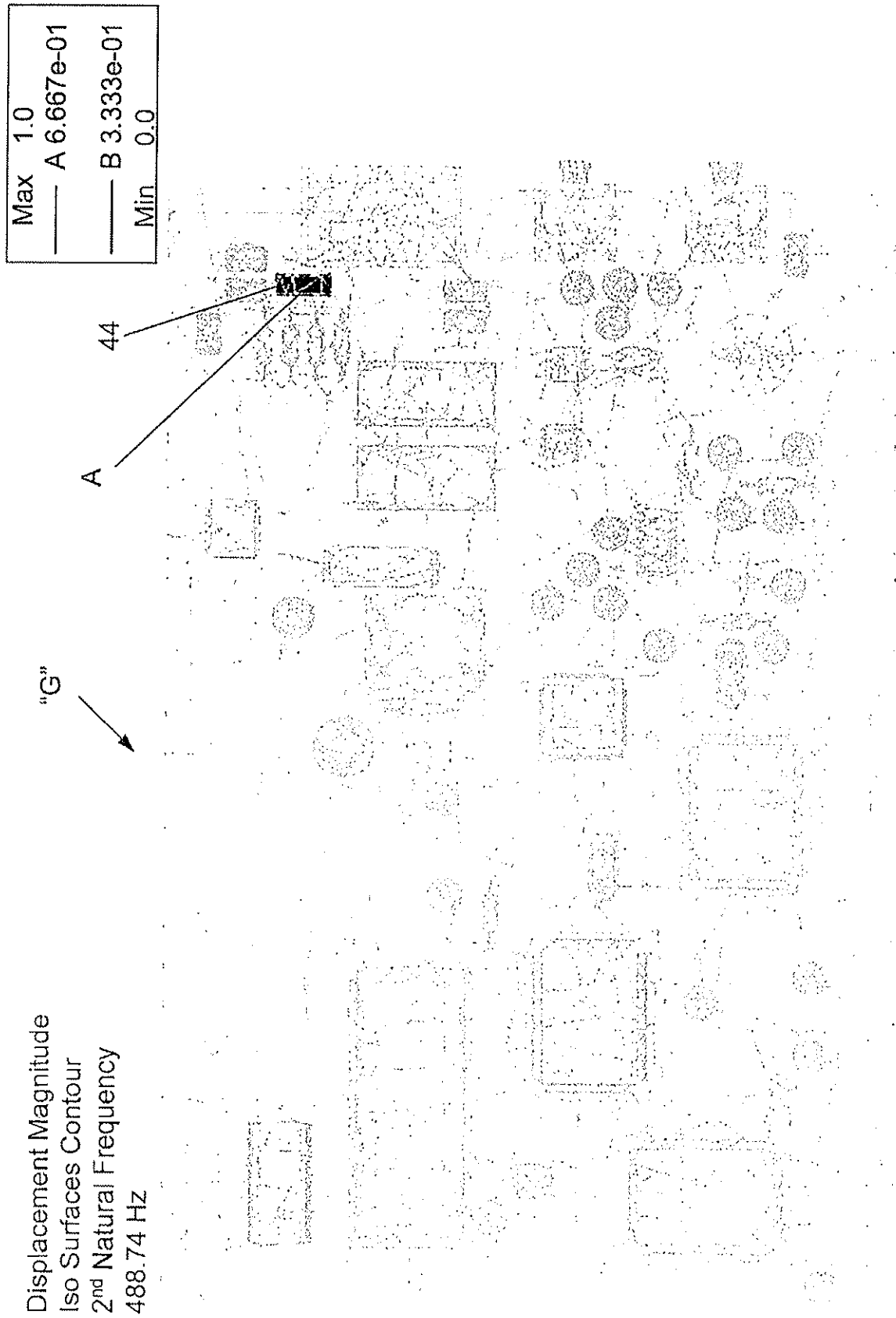


Fig. 6a

Displacement Magnitude
Deformed Shape
2nd Natural Frequency
488.74 Hz

"G"

44

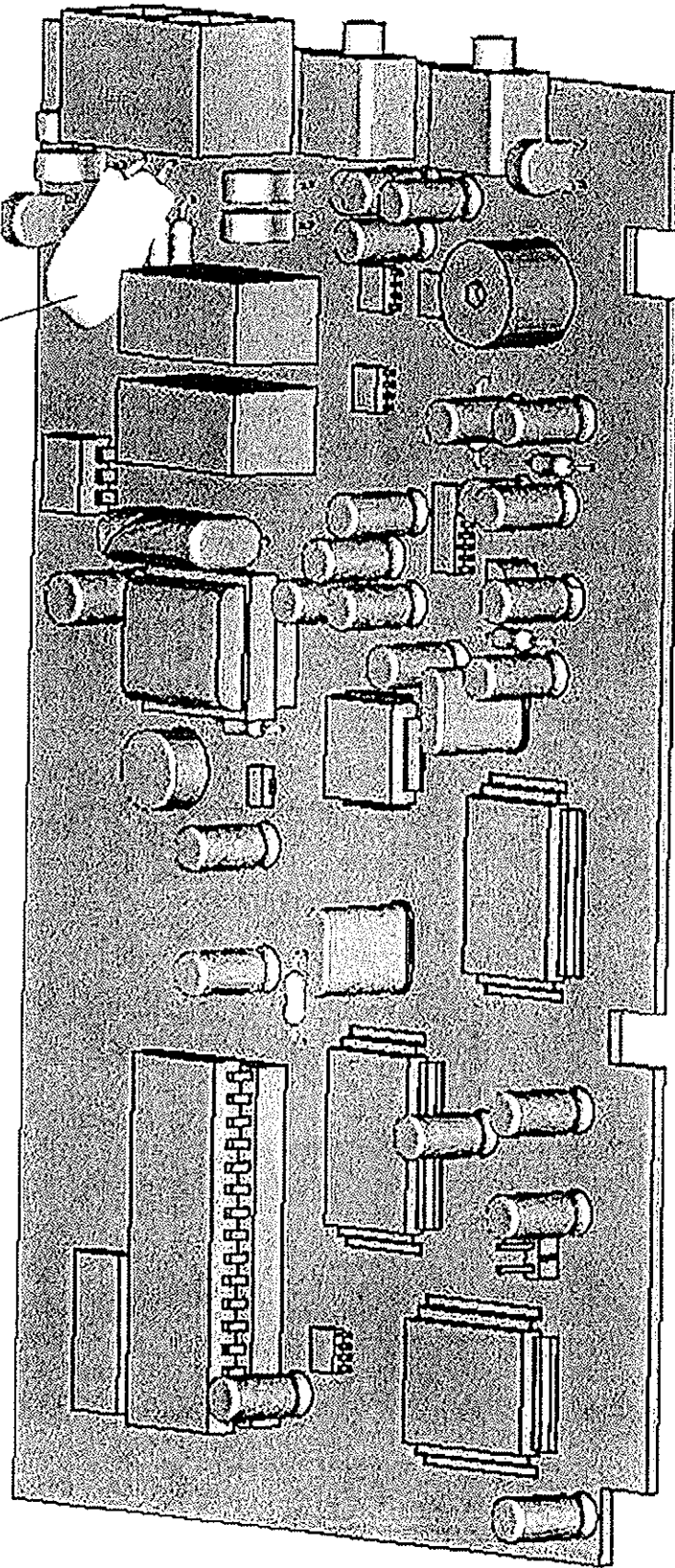


Fig. 6b

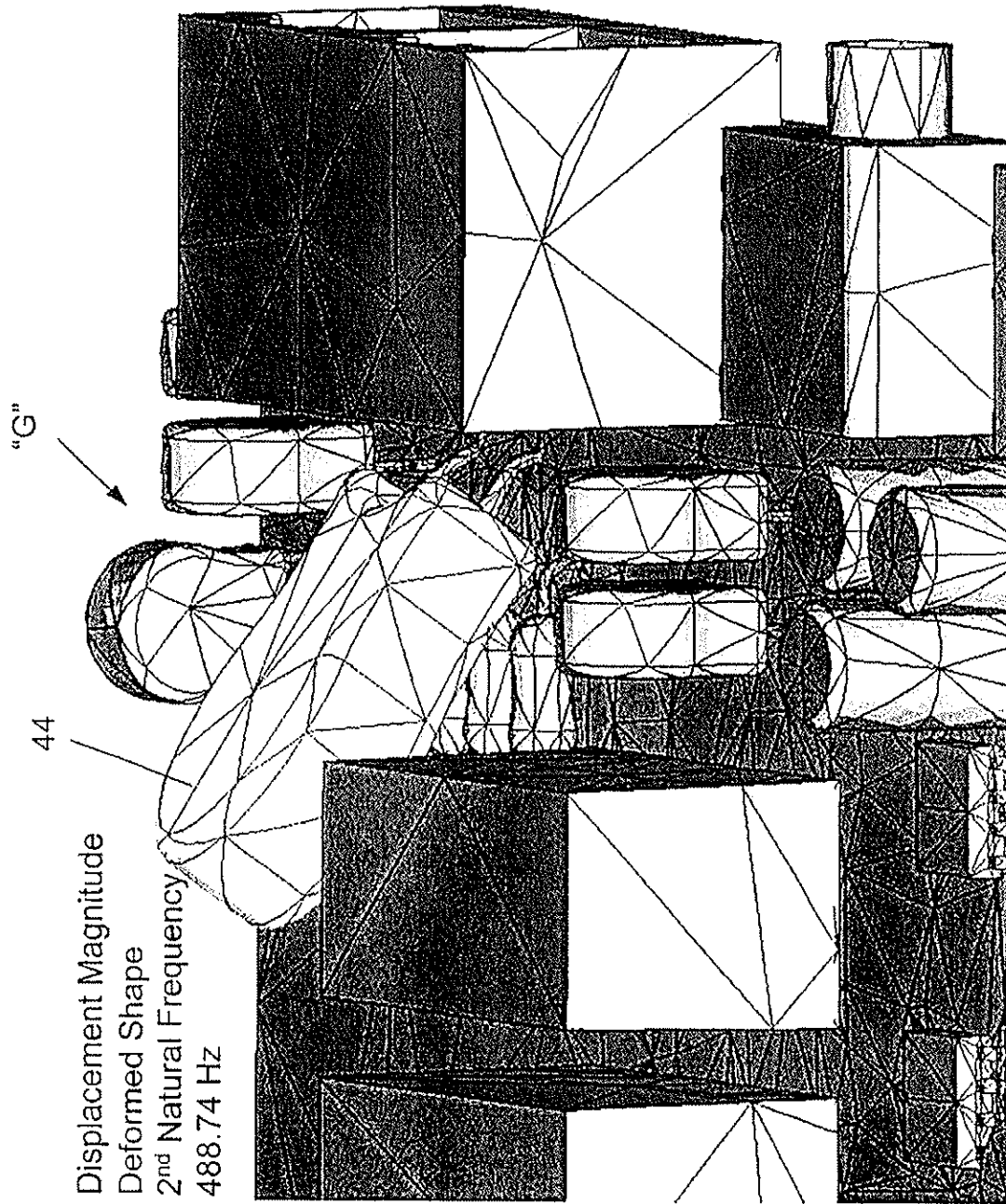


Fig. 6c

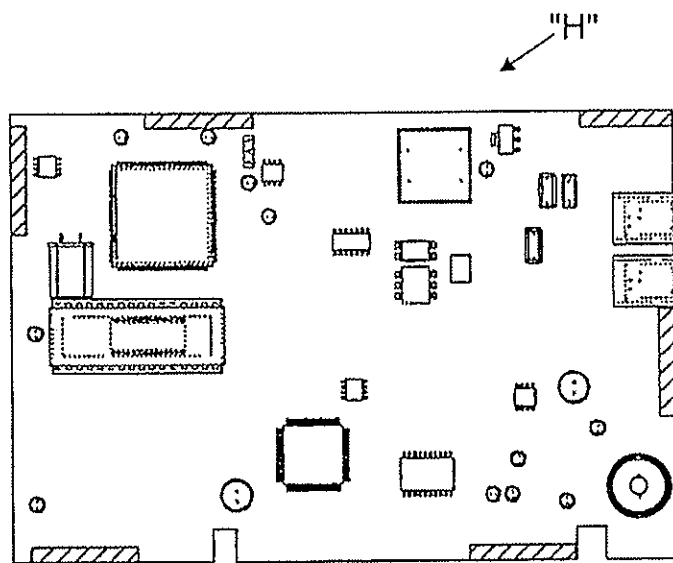


Fig. 7a

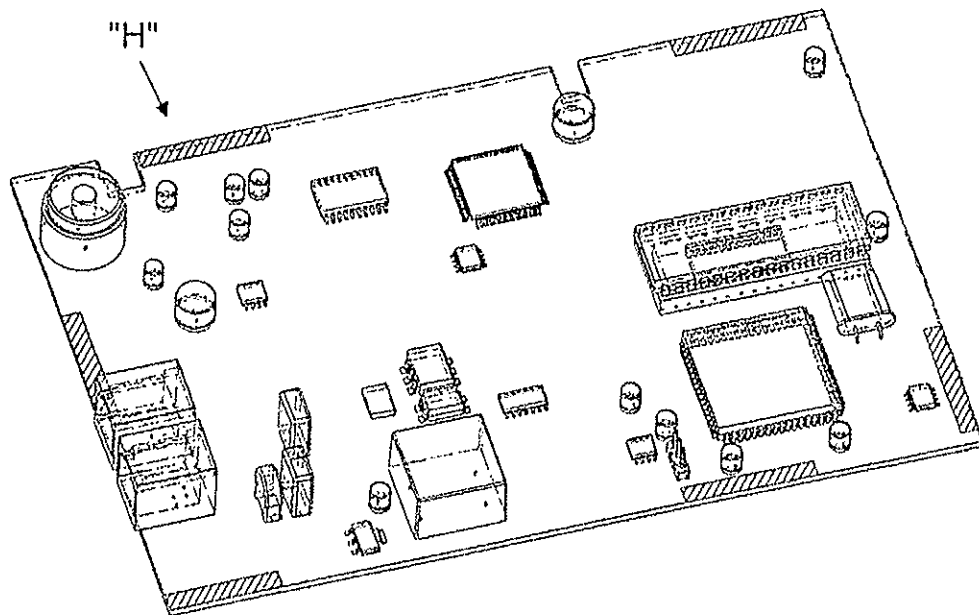


Fig. 7b

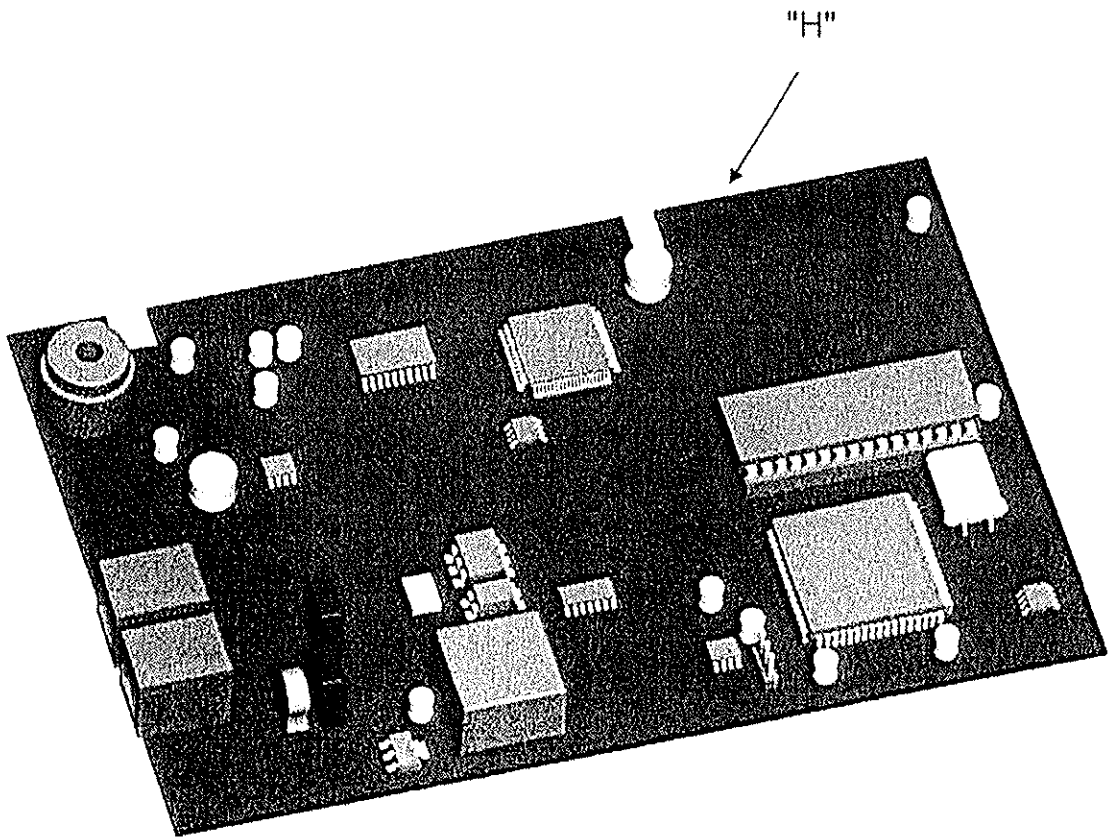
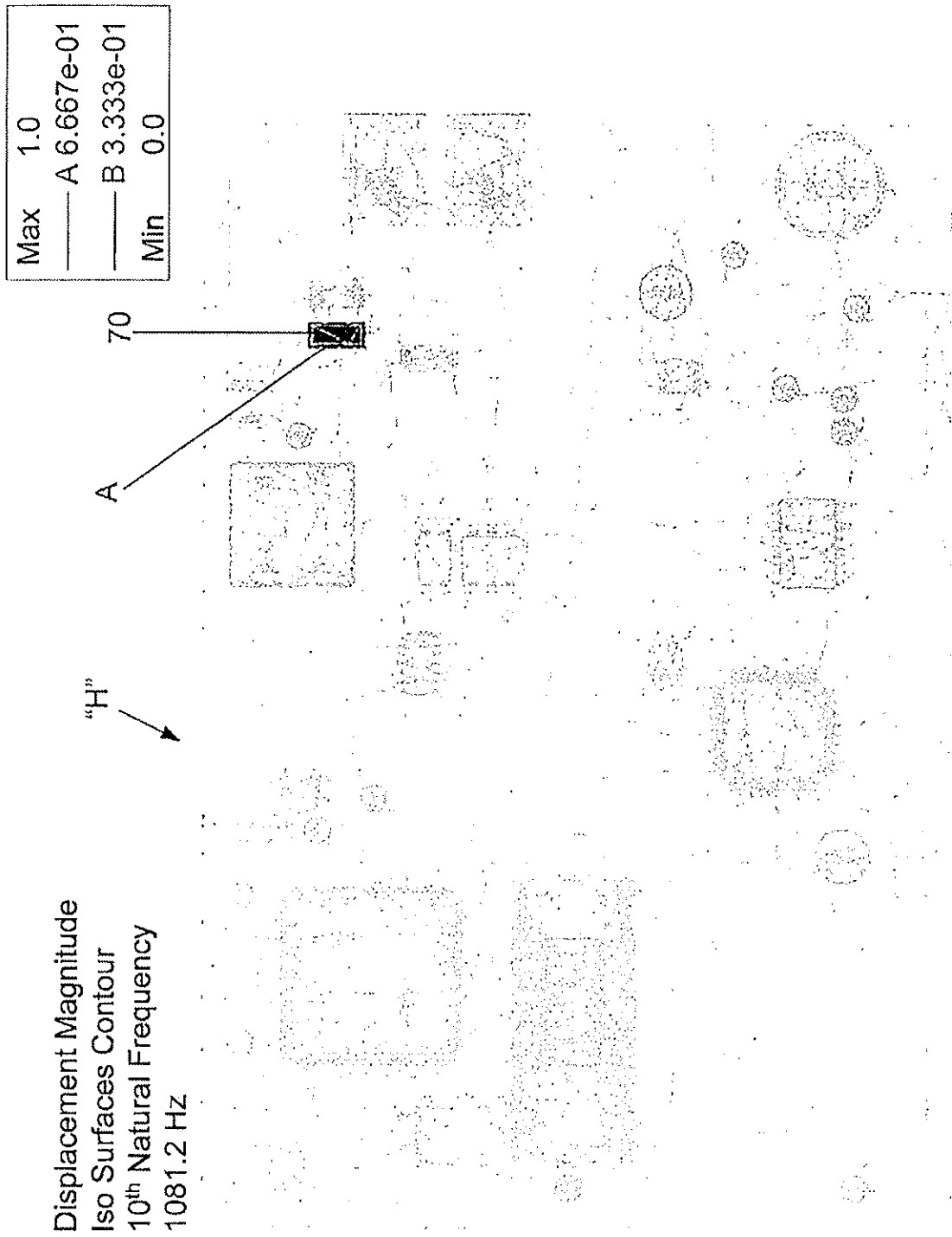


Fig. 7c



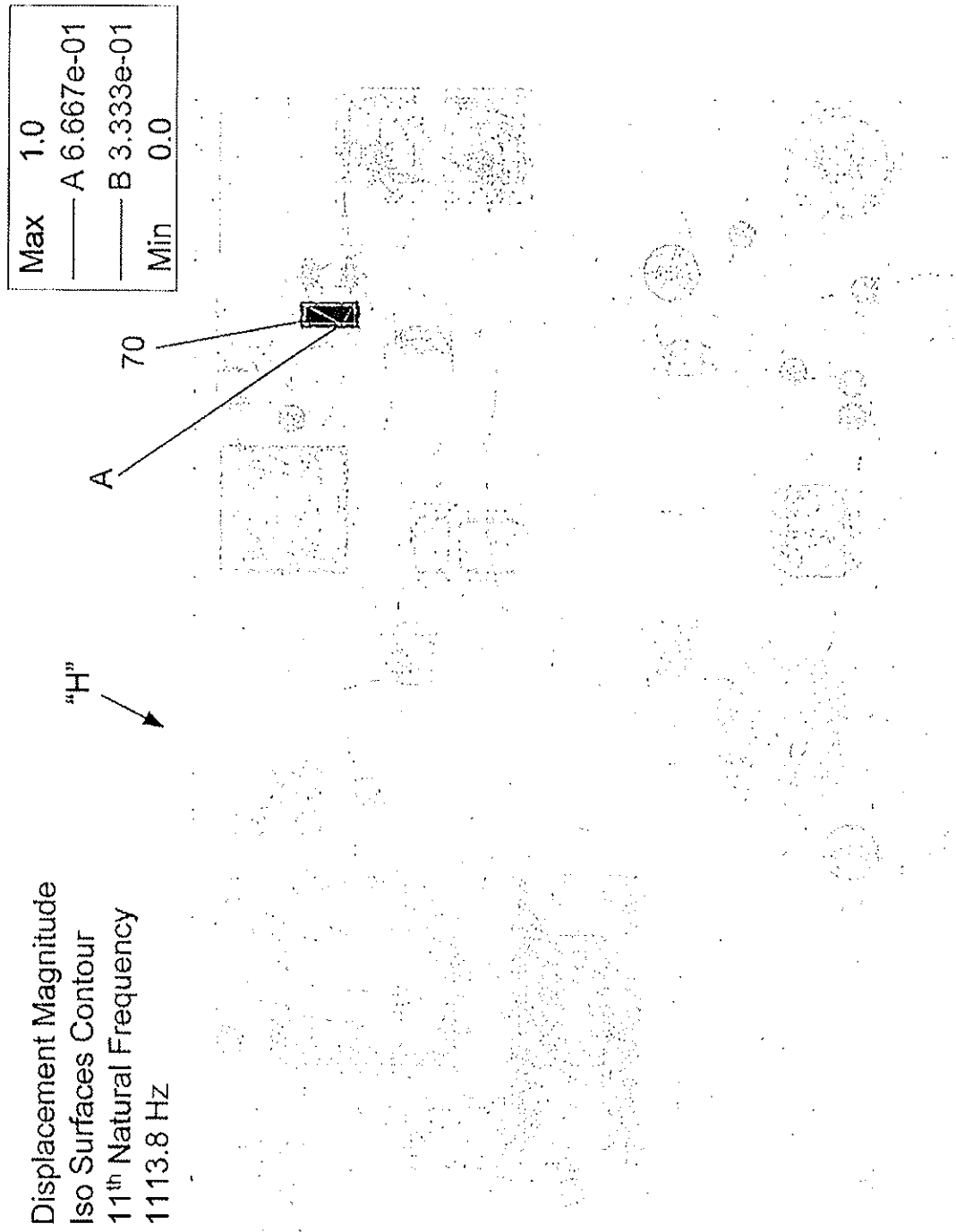


Fig. 8b

"C"

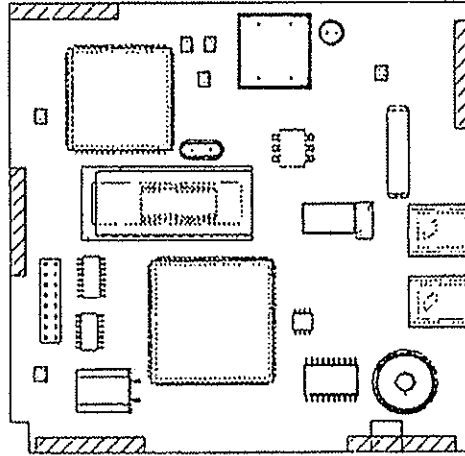


Fig. 9a

"C"

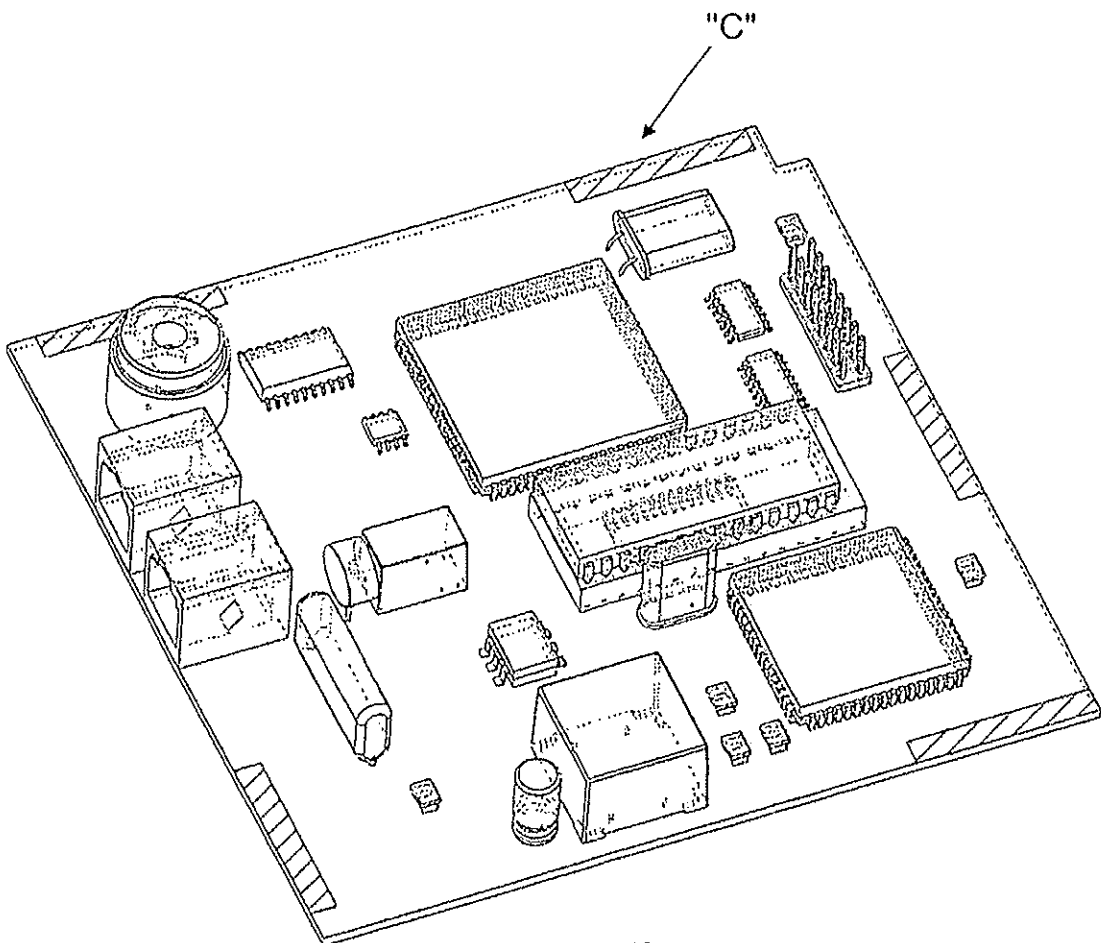


Fig. 9b

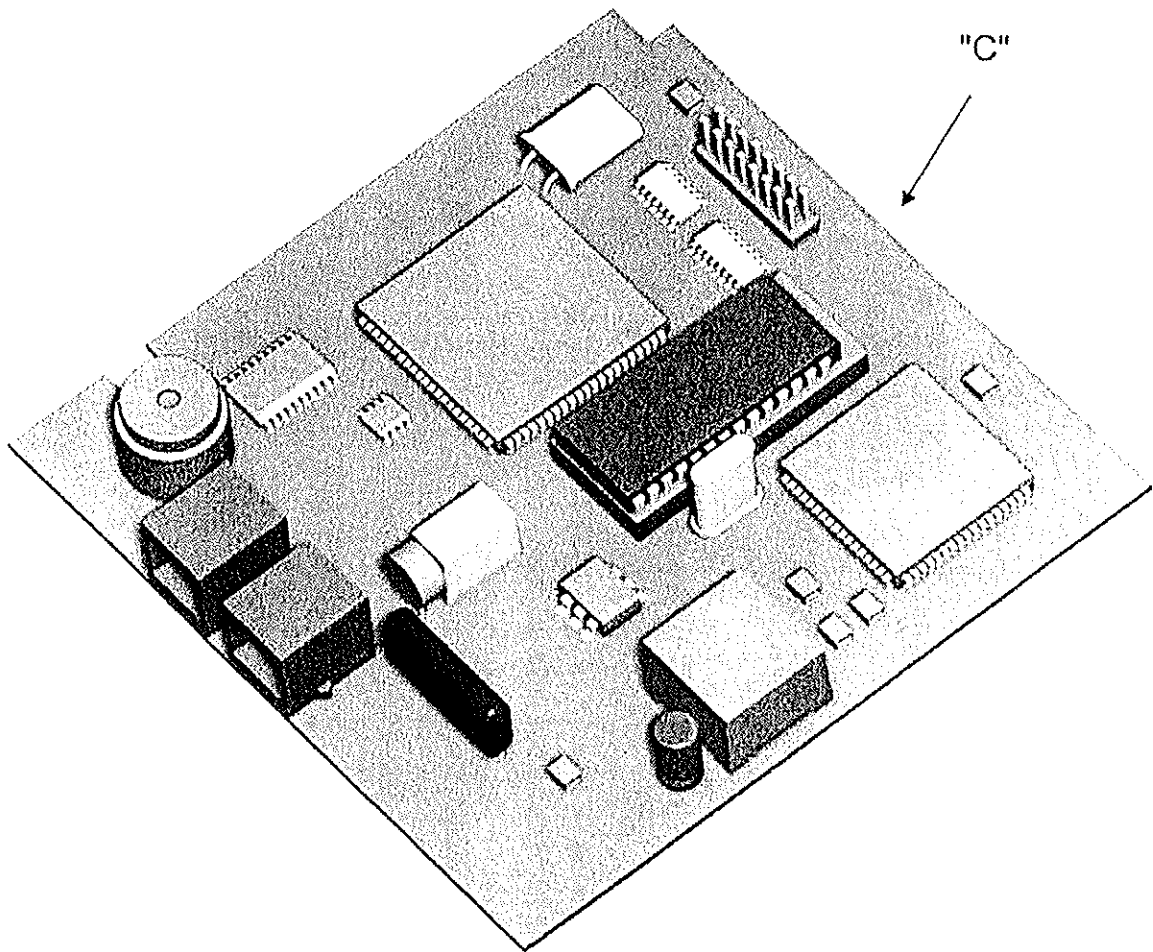
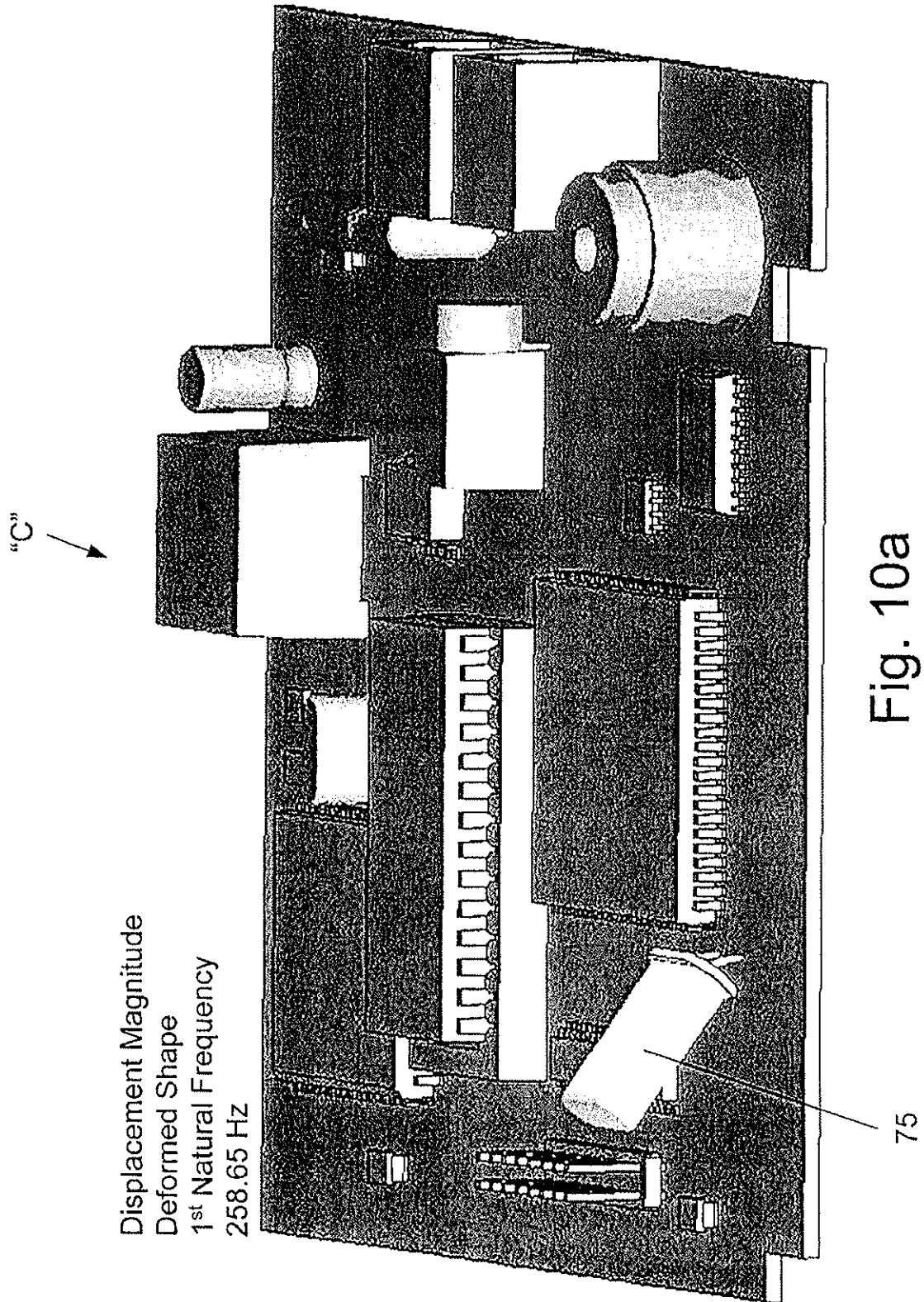


Fig. 9c



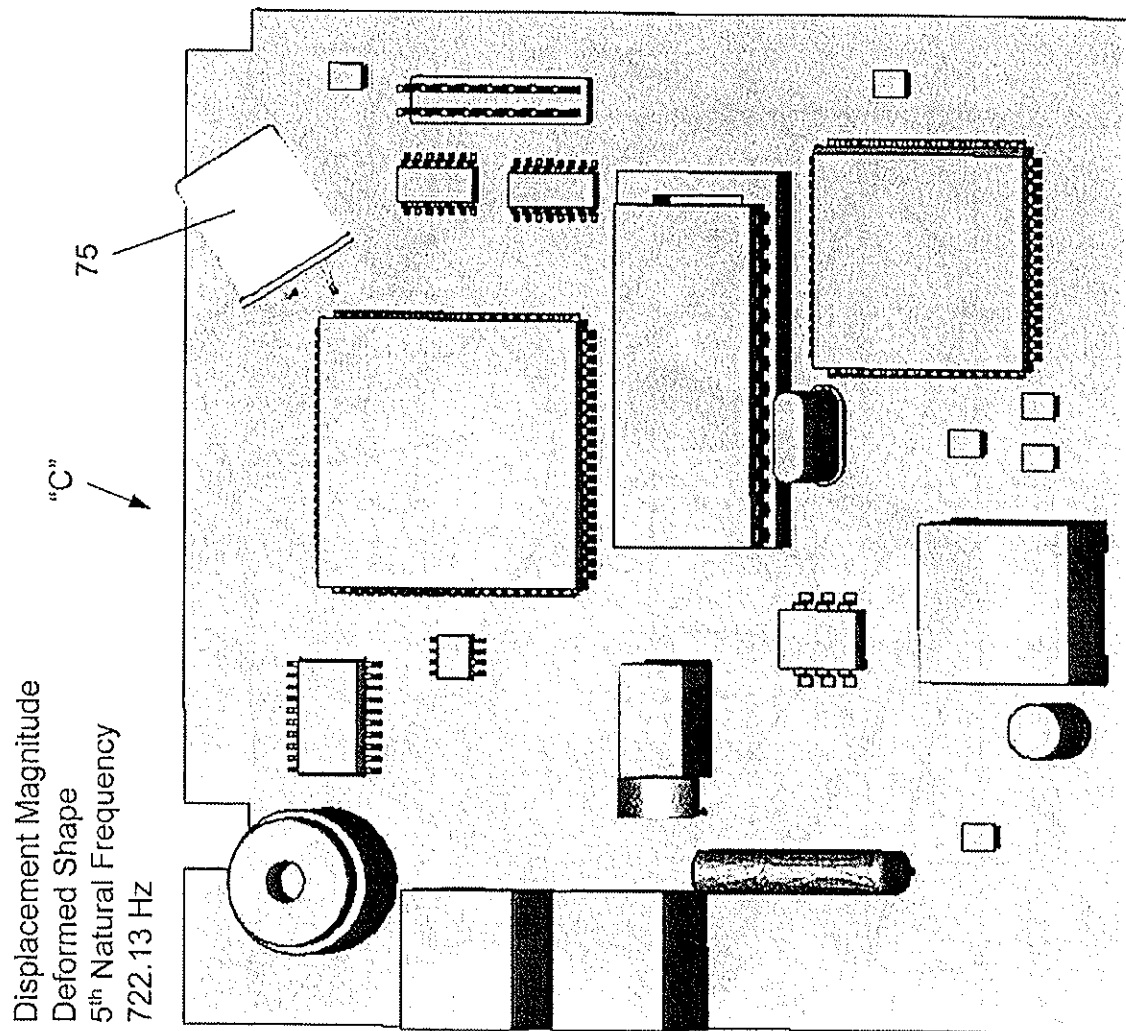


Fig. 10b

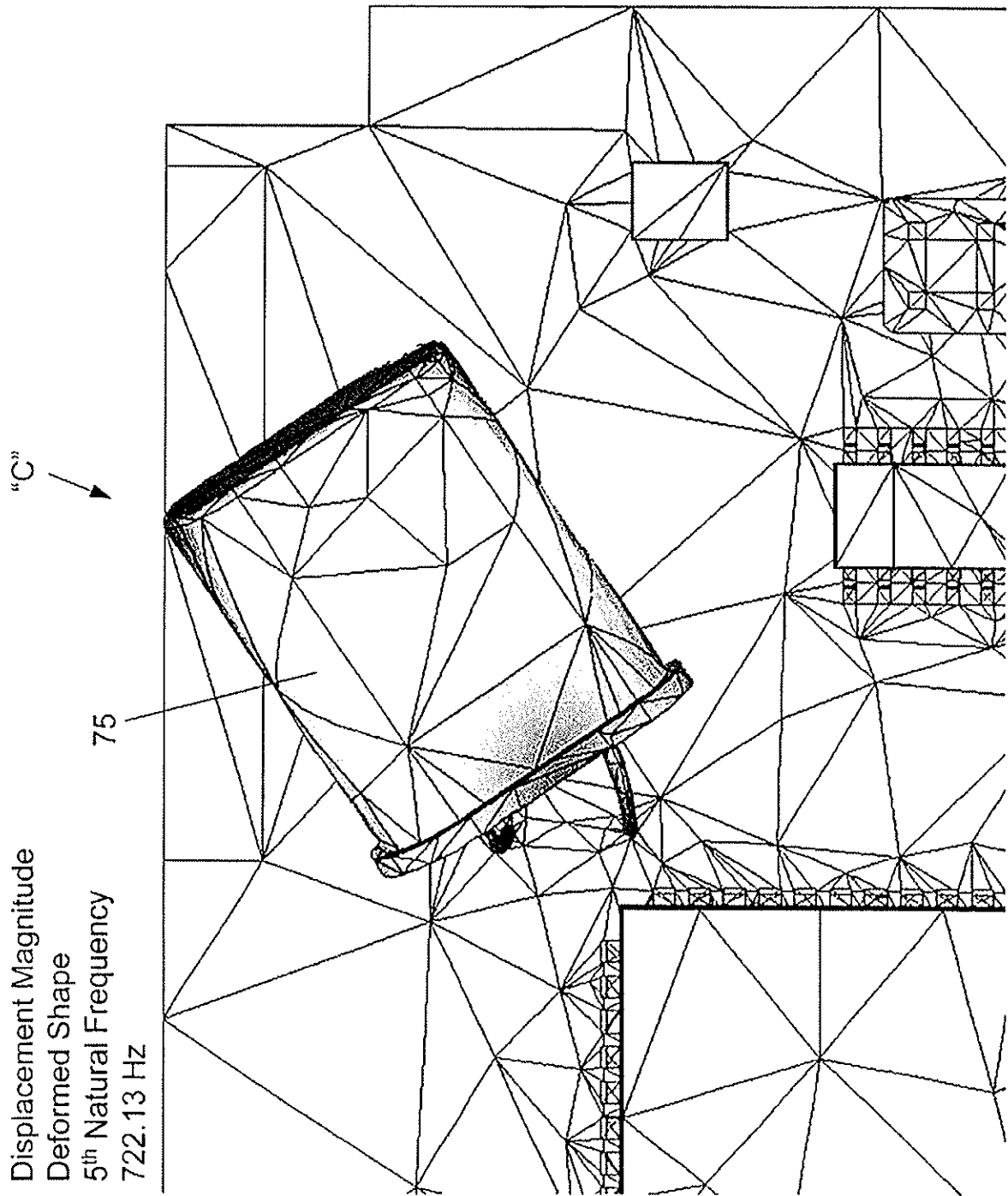
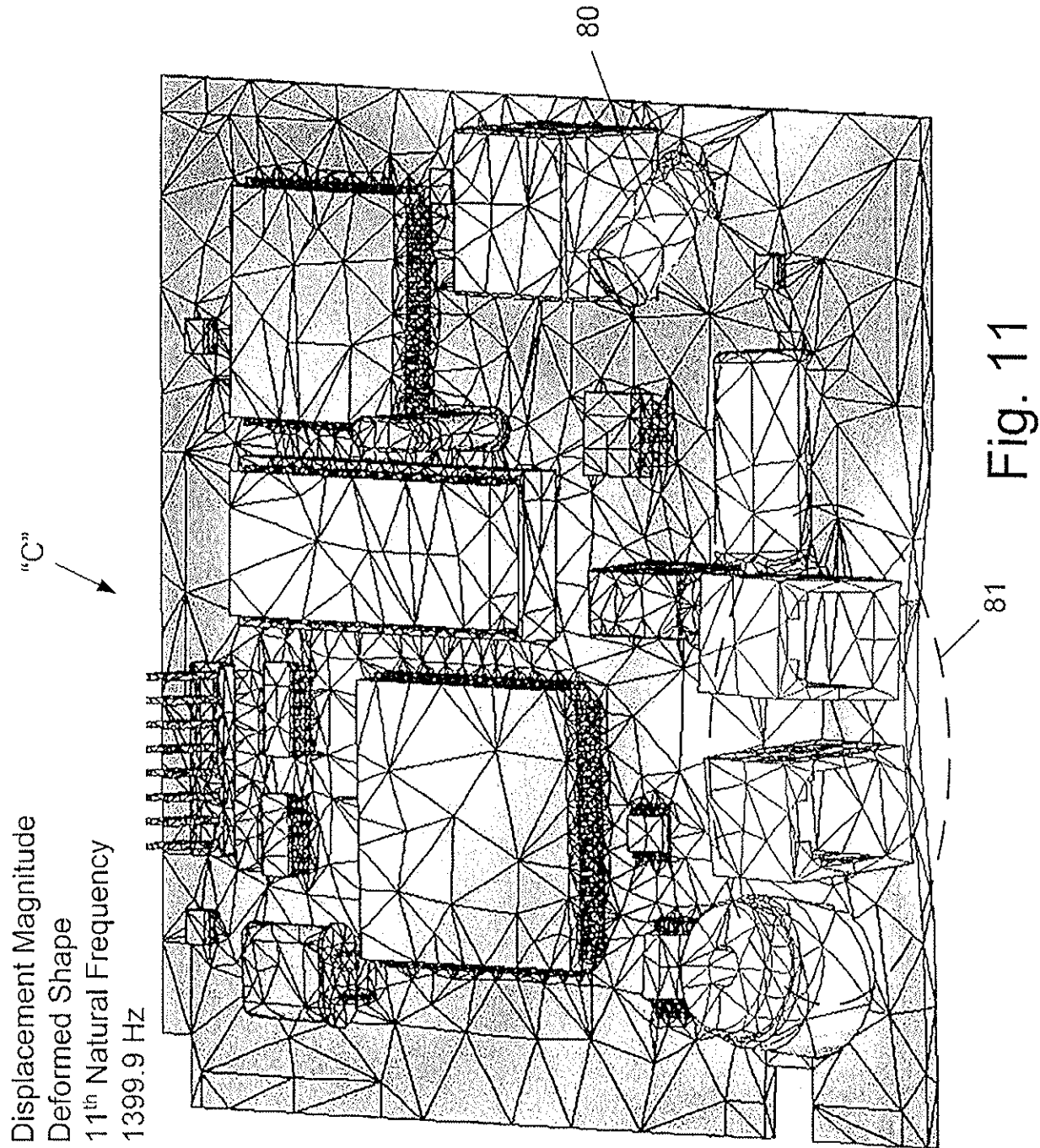


Fig. 10c



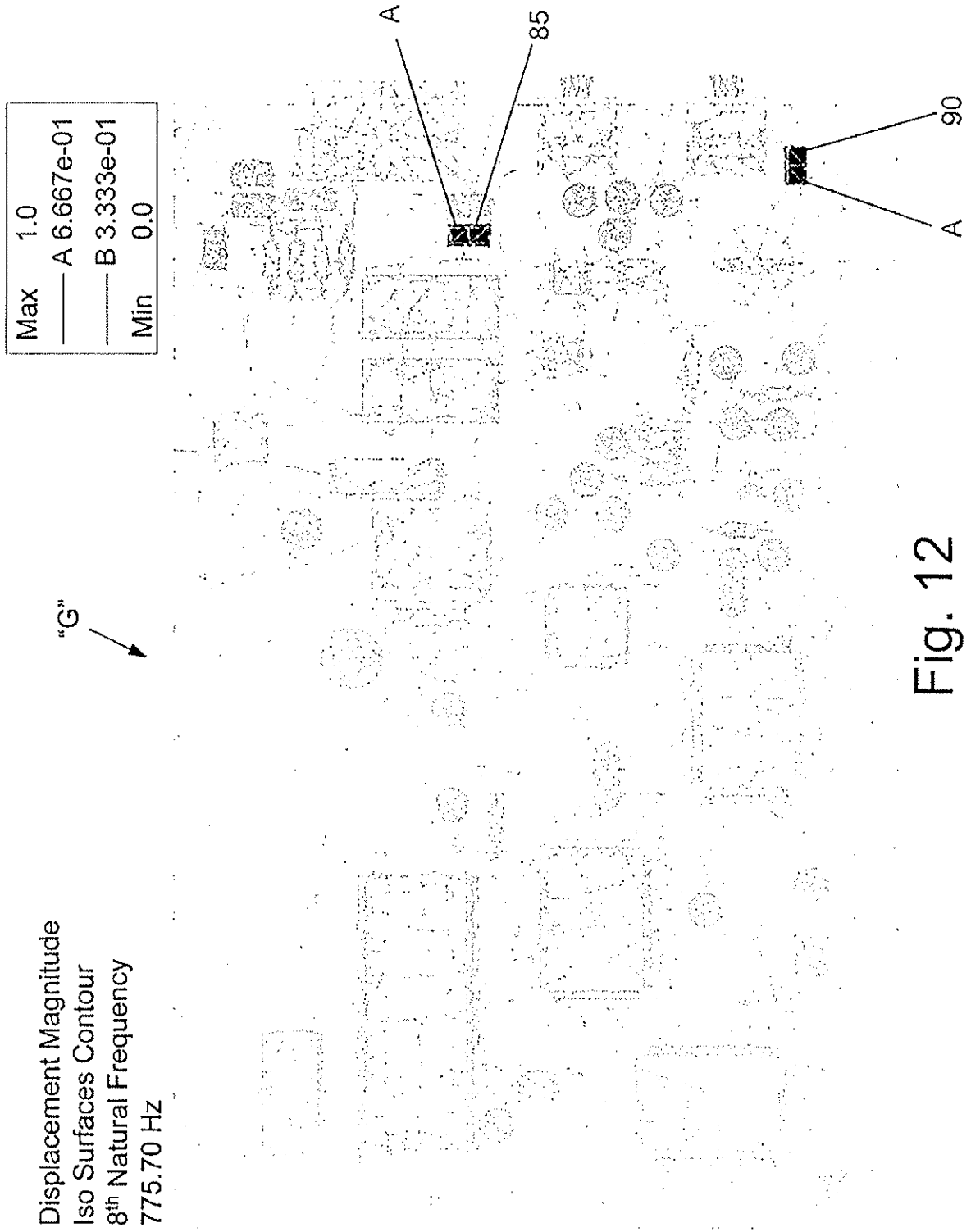


Fig. 12

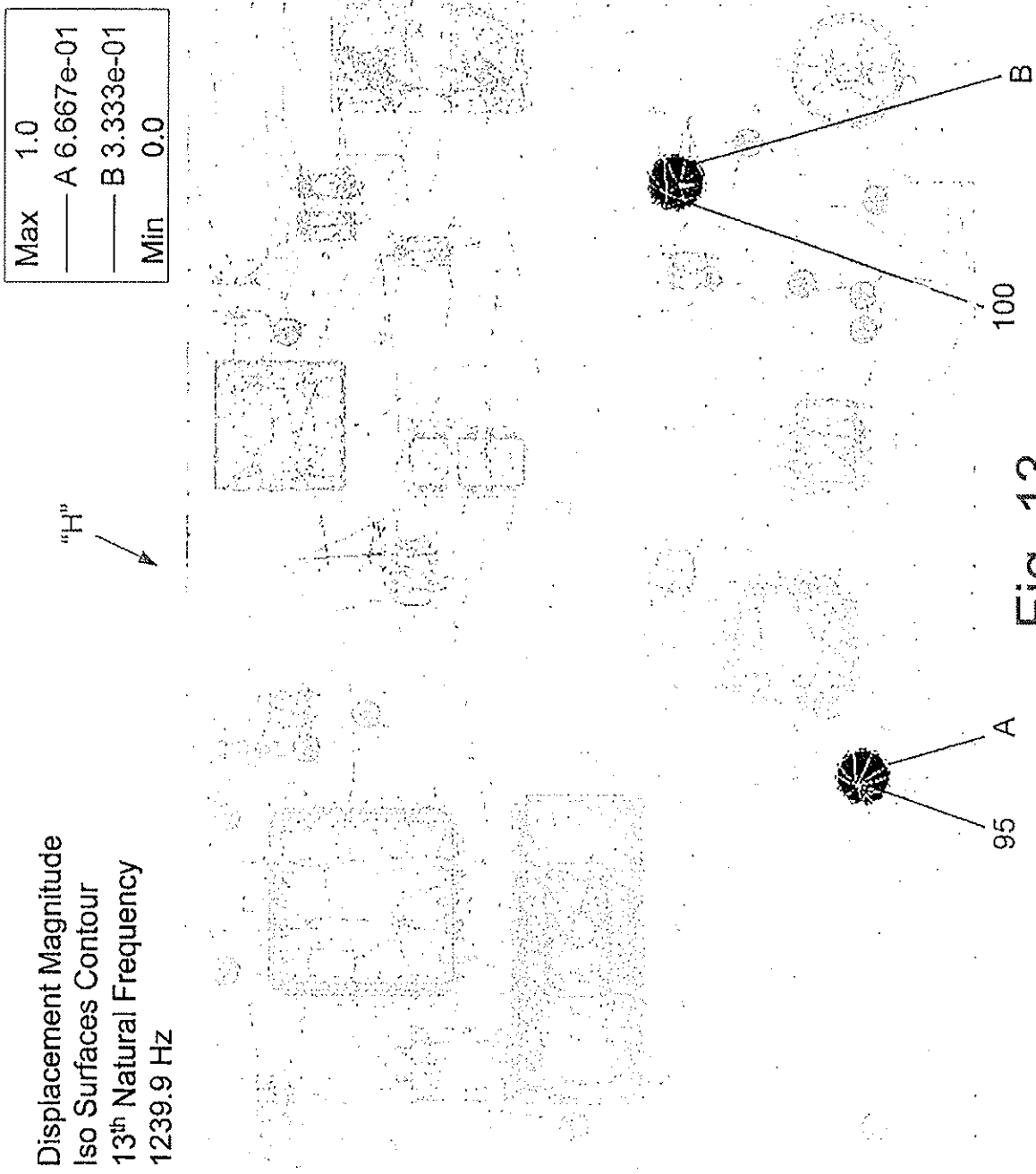
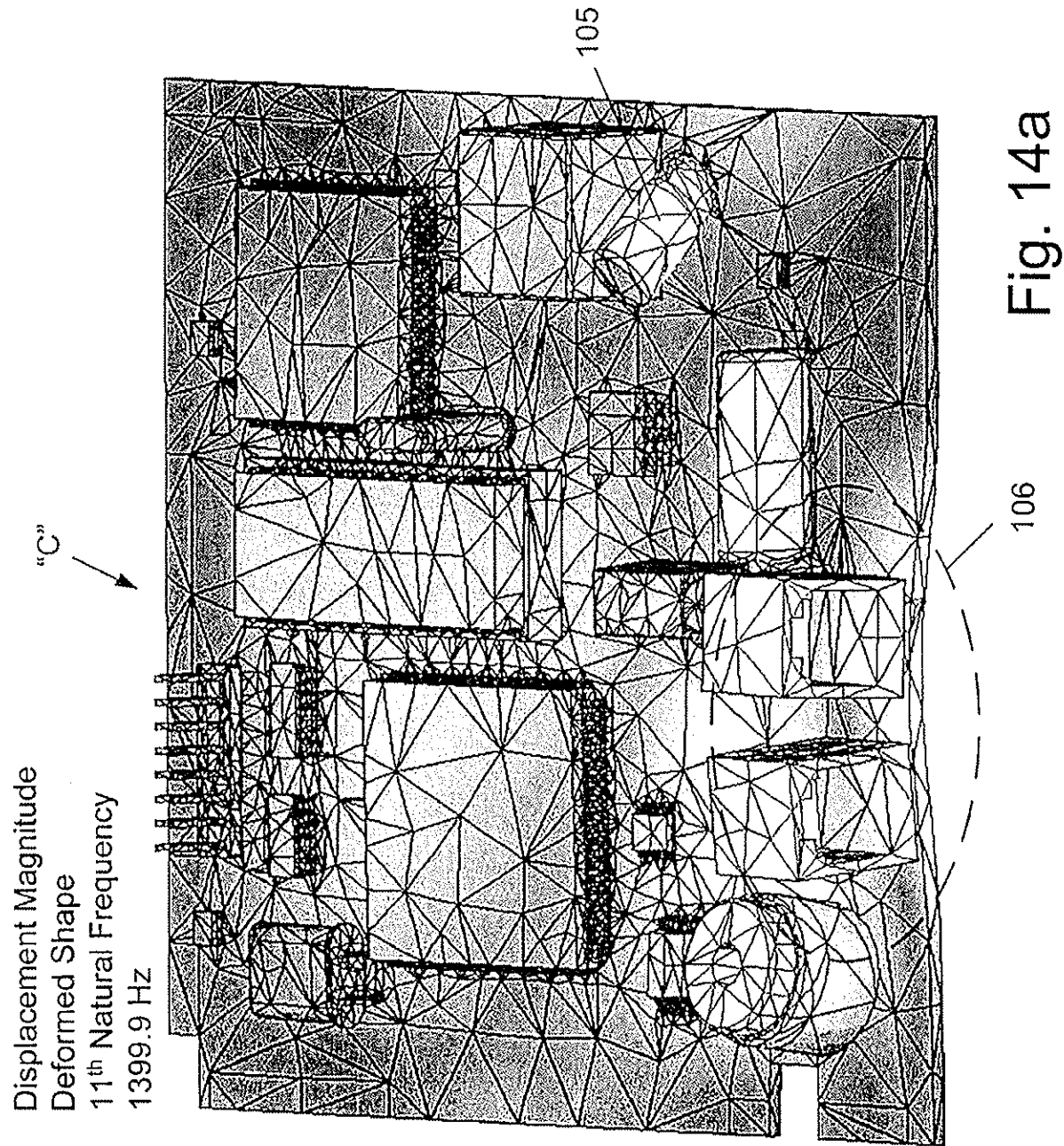


Fig. 13



Displacement Magnitude
Iso Surfaces Contour
12th Natural Frequency
1430.0 Hz

"C"

Max	1.0
— A	6.667e-01
— B	3.333e-01
Min	0.0

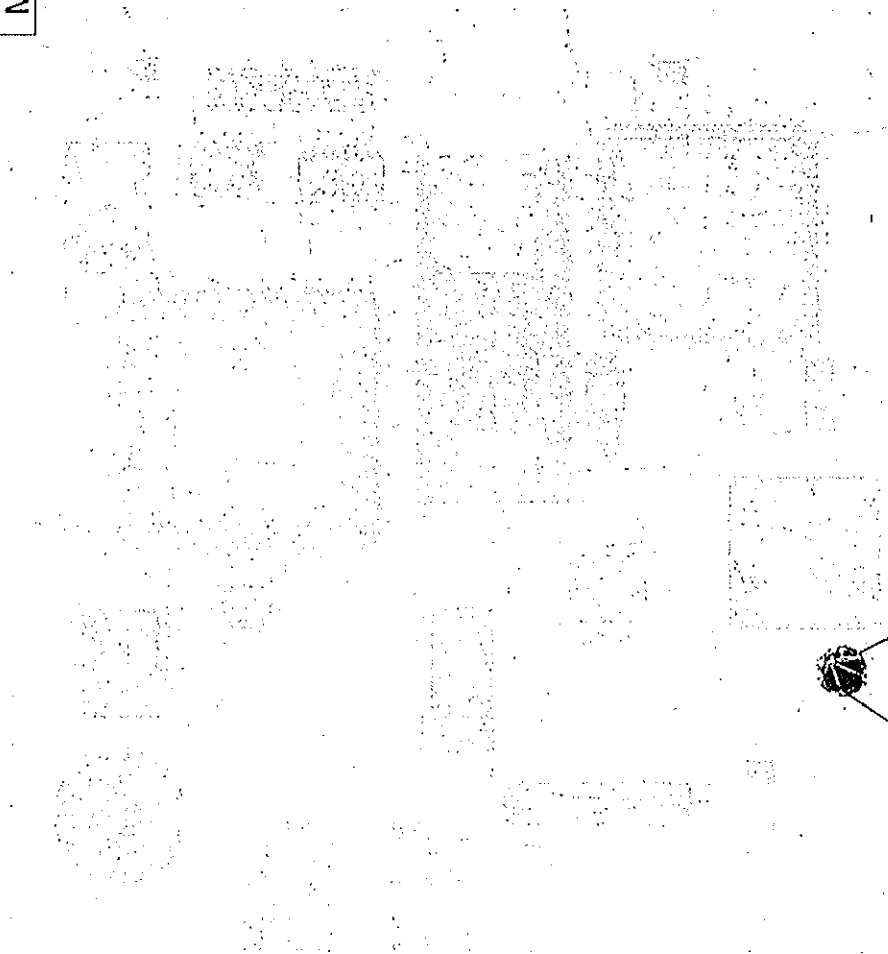


Fig. 14b

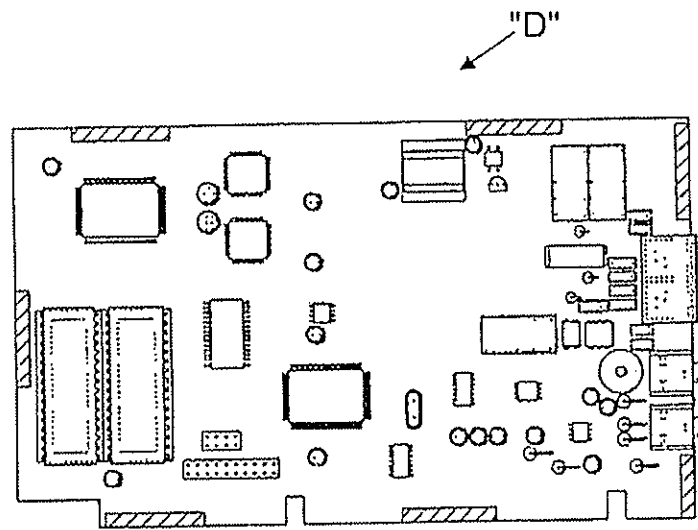


Fig. 15a

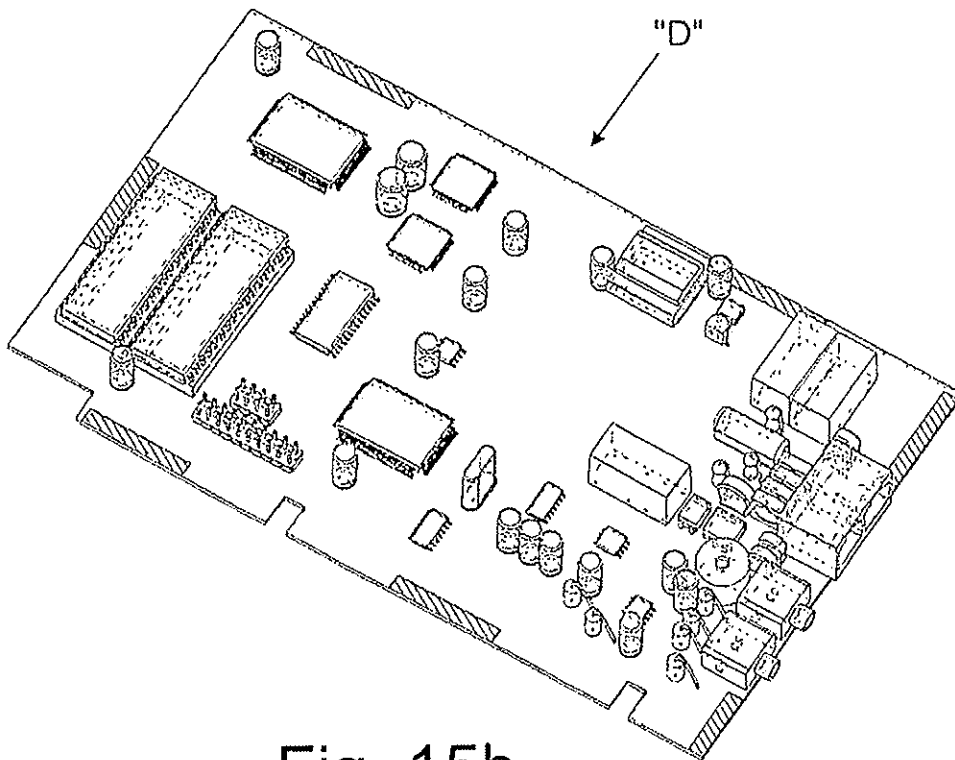


Fig. 15b

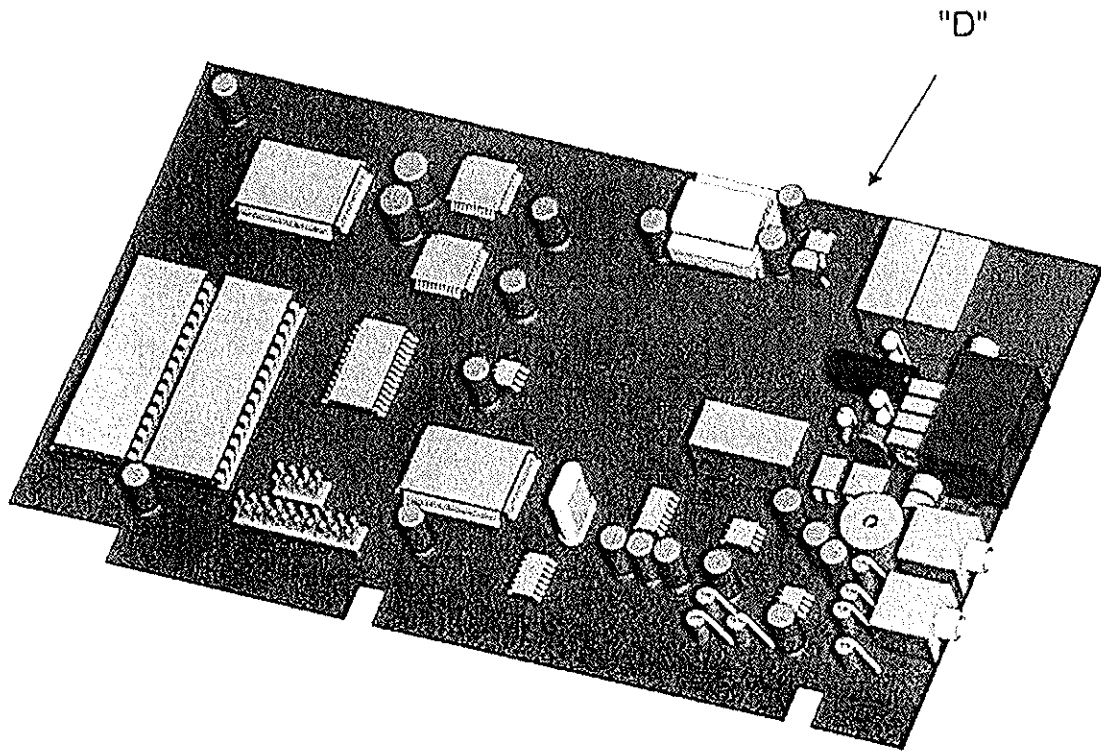


Fig. 15c

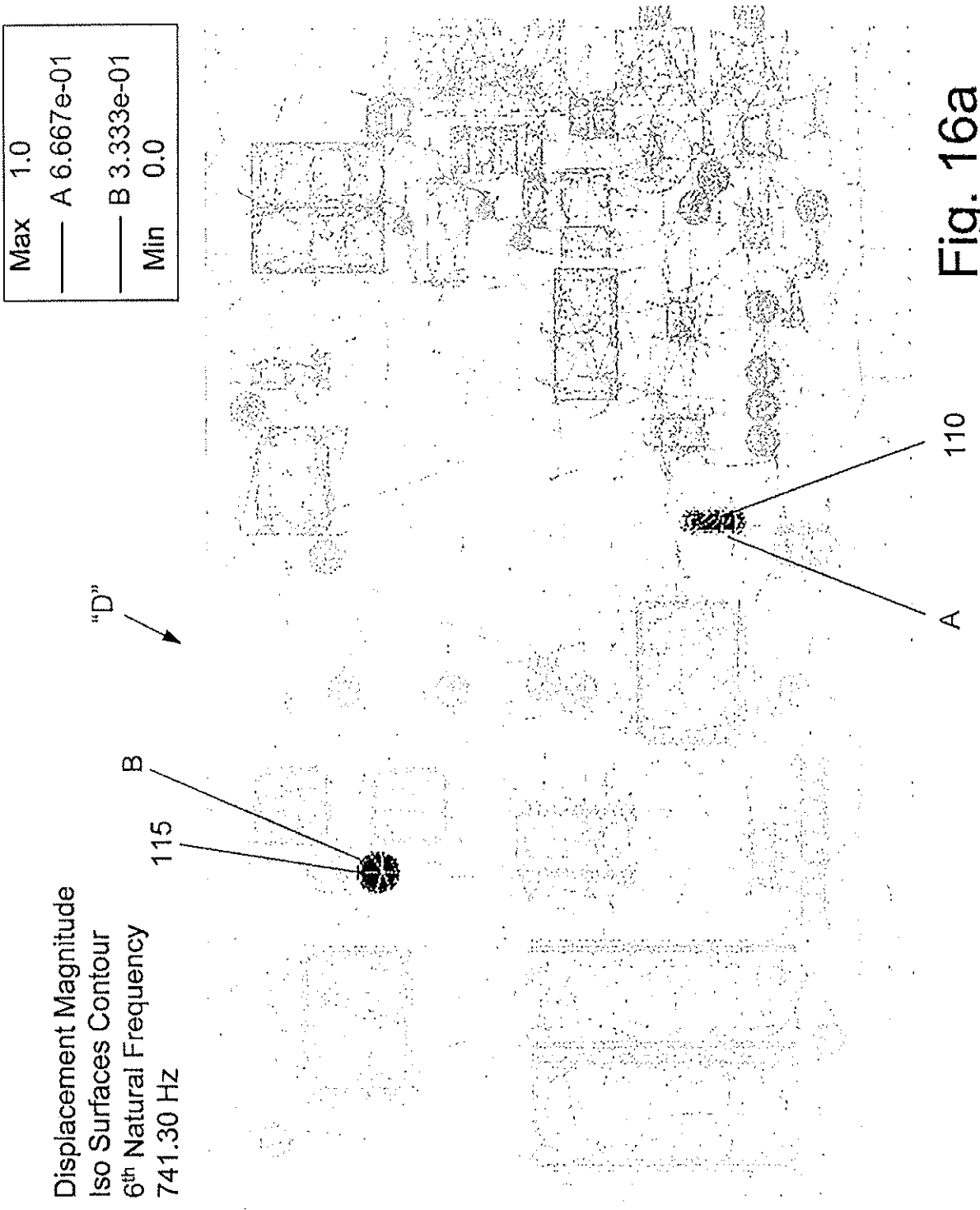


Fig. 16a

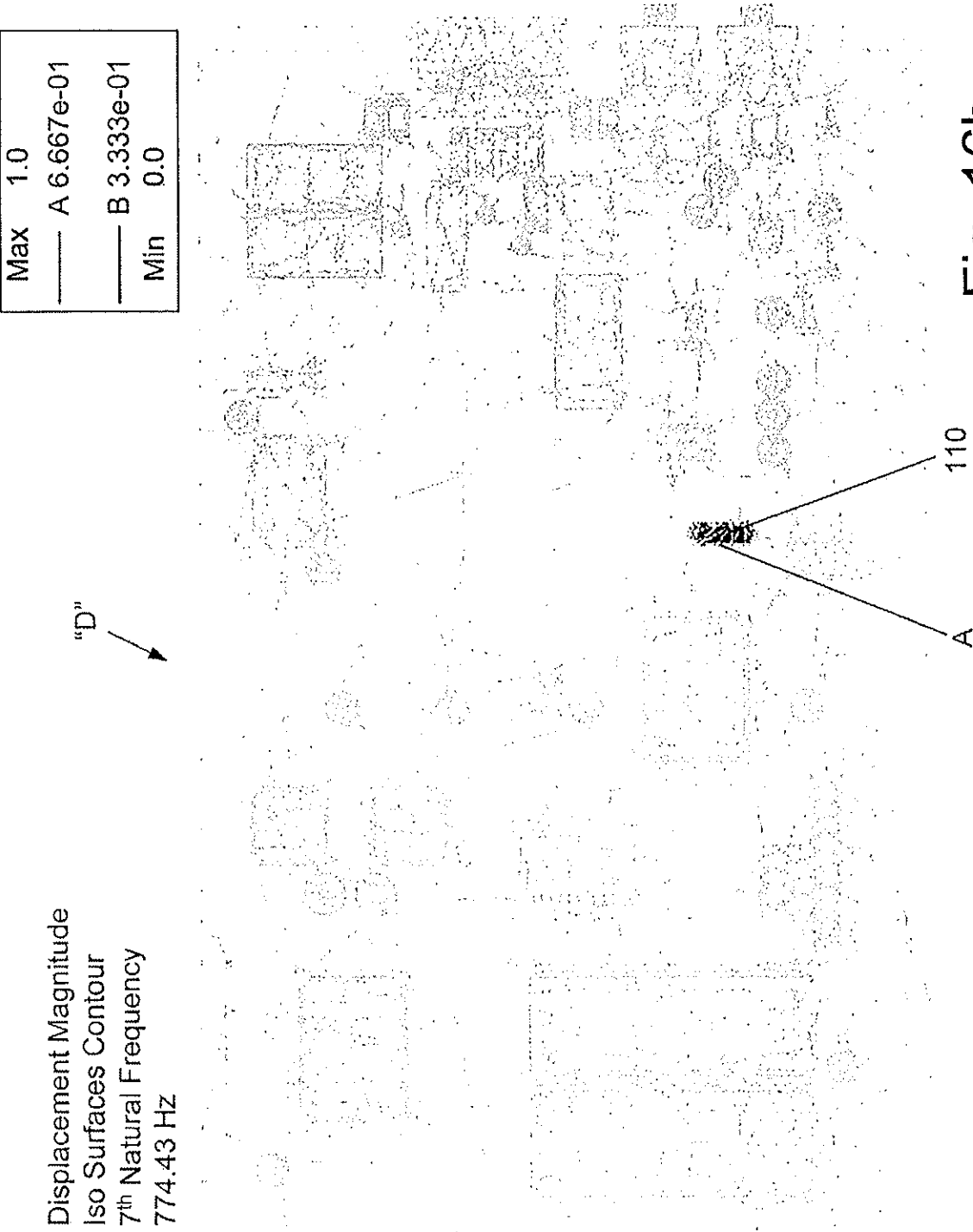


Fig. 16b

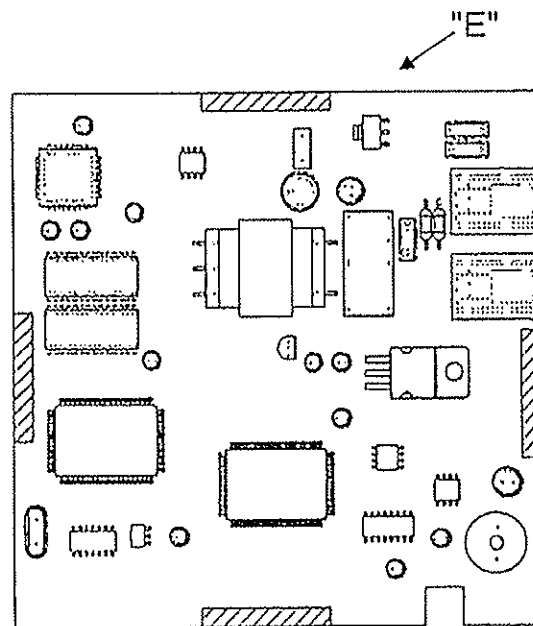


Fig. 17a

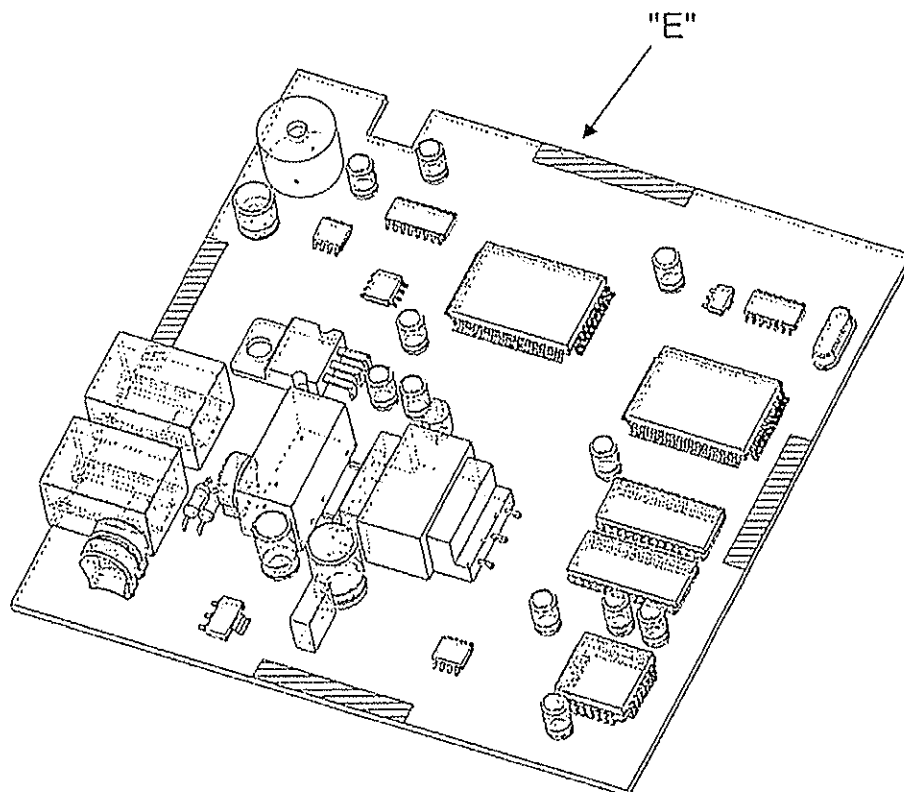


Fig. 17b

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"E"

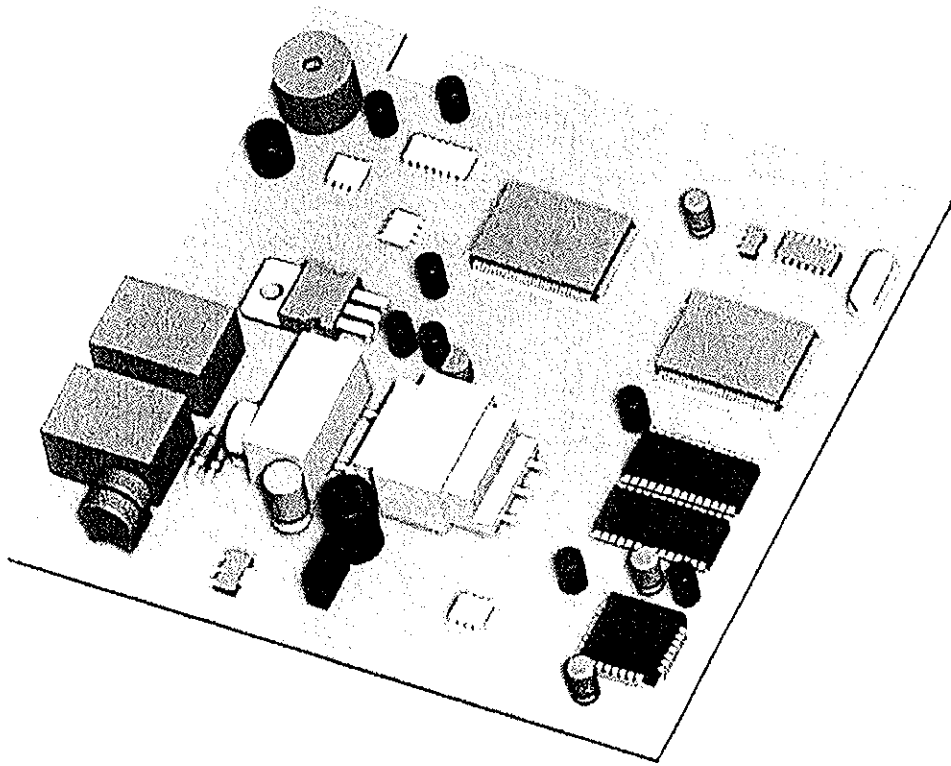


Fig. 17c

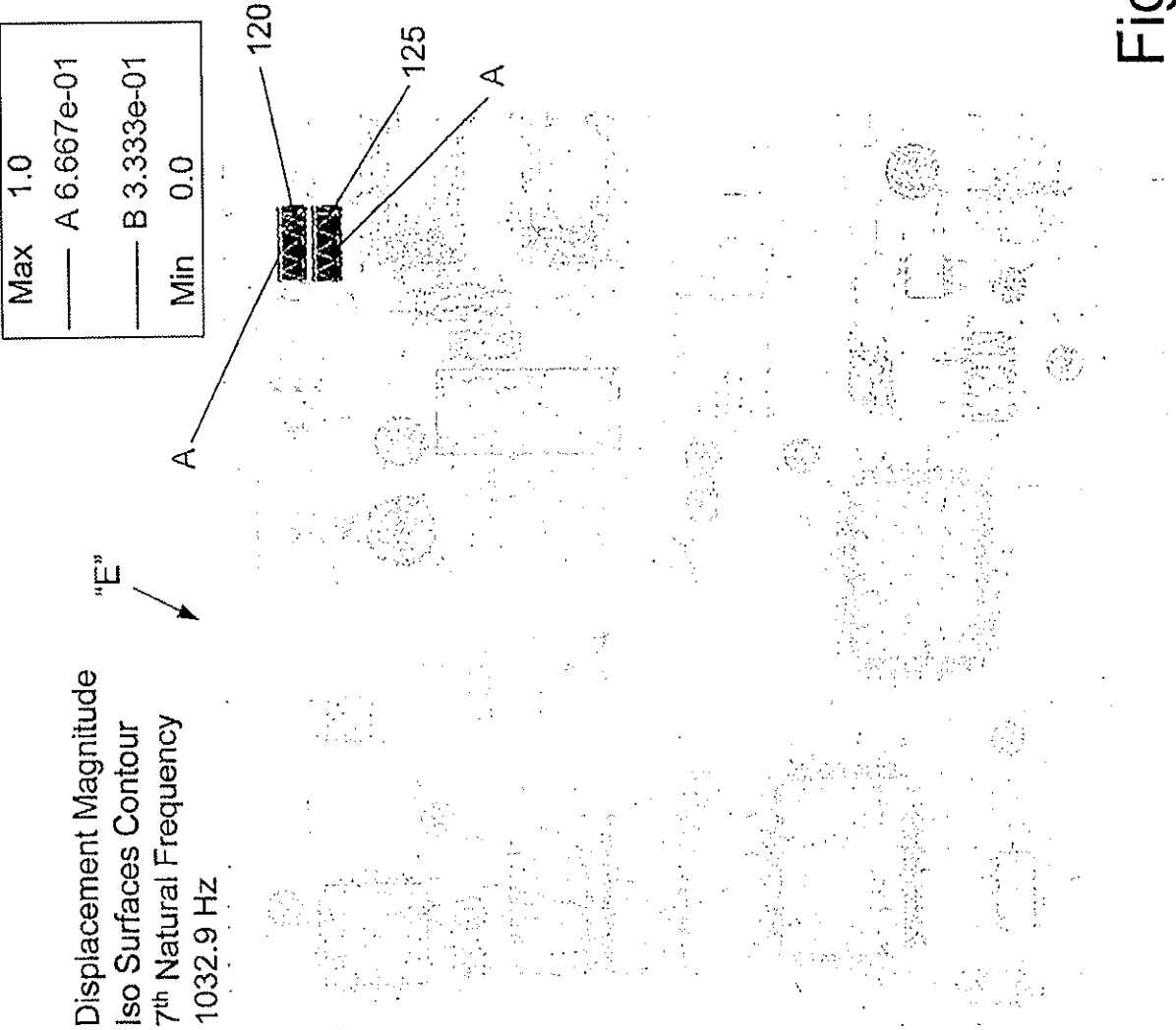


Fig. 18a

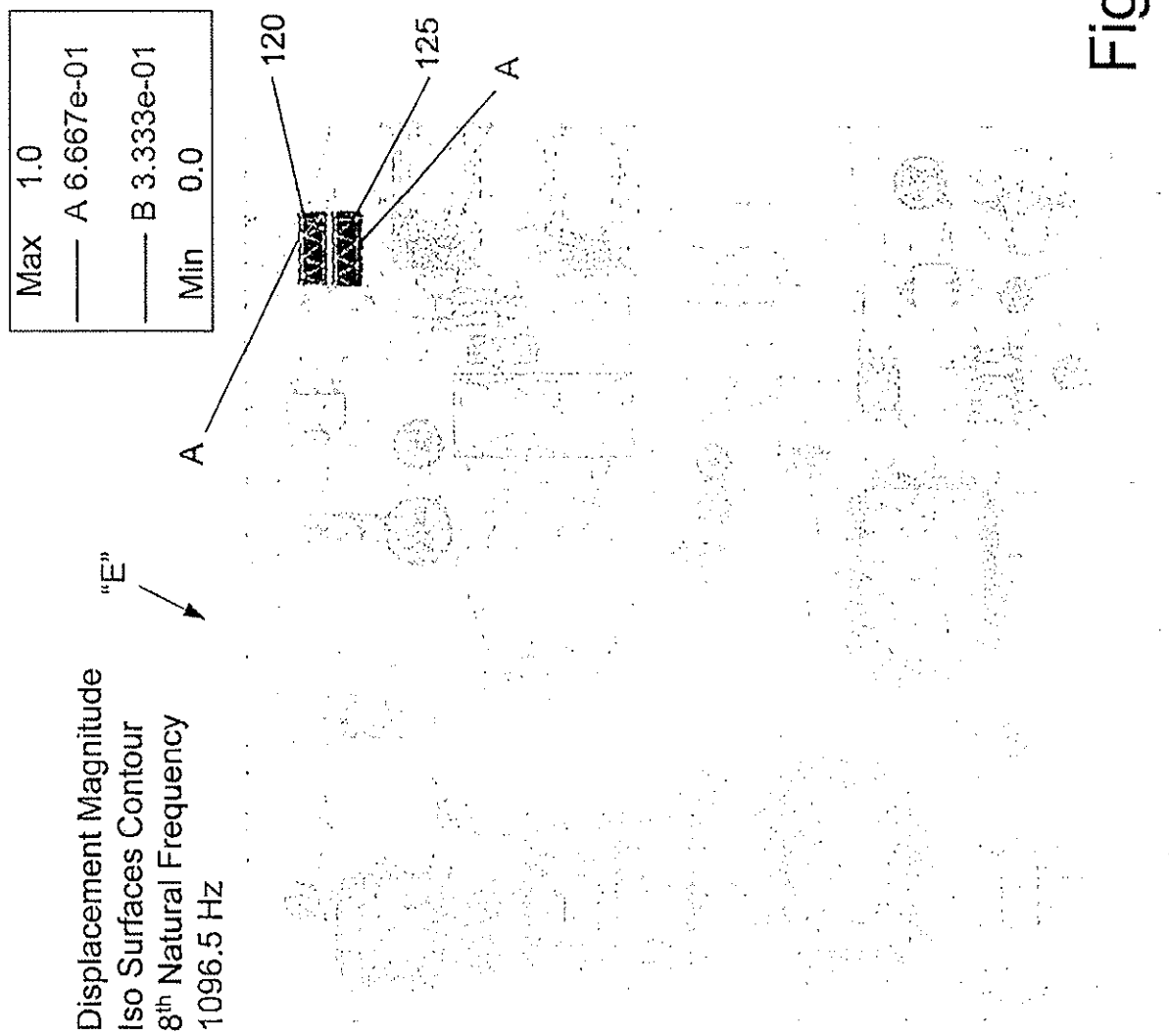


Fig. 18b

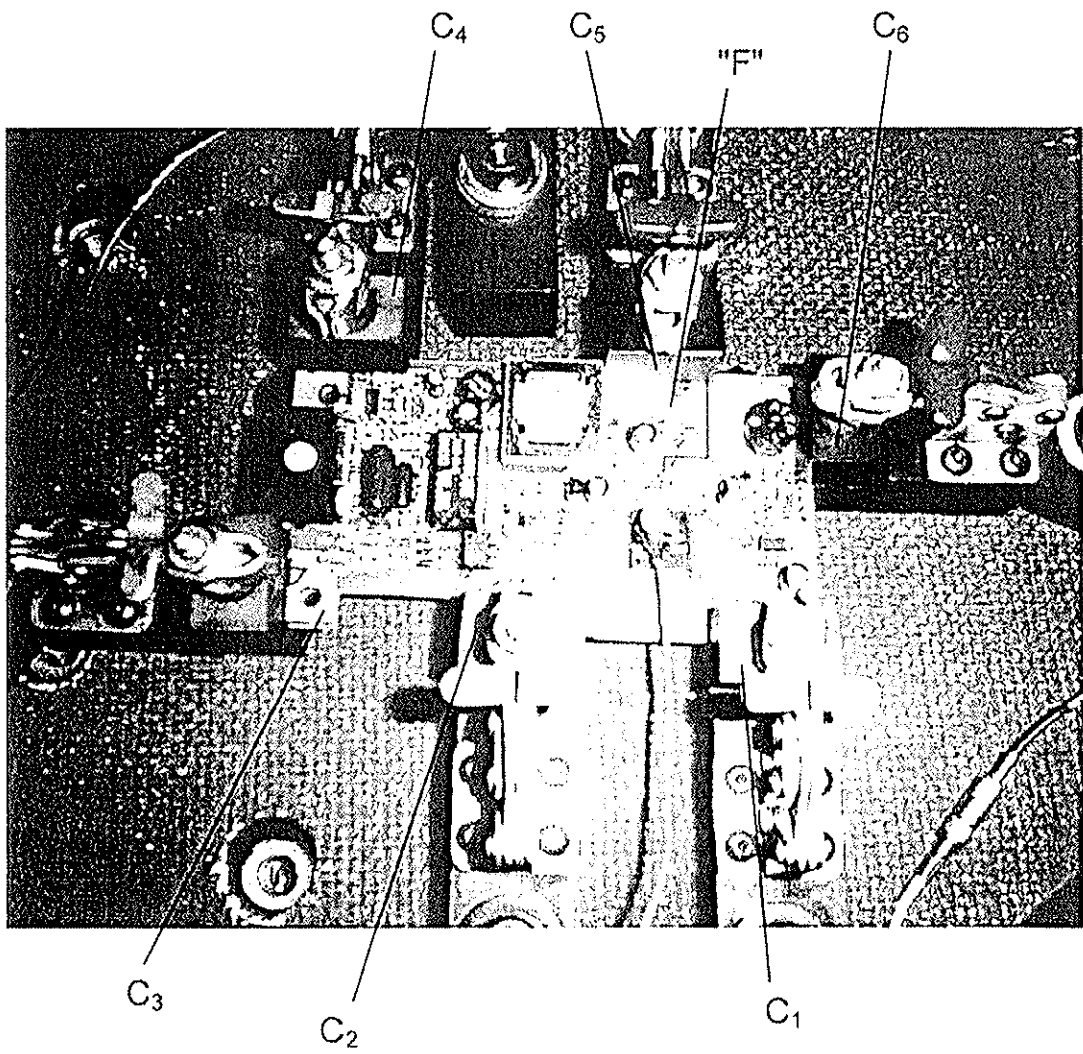


Fig. 19

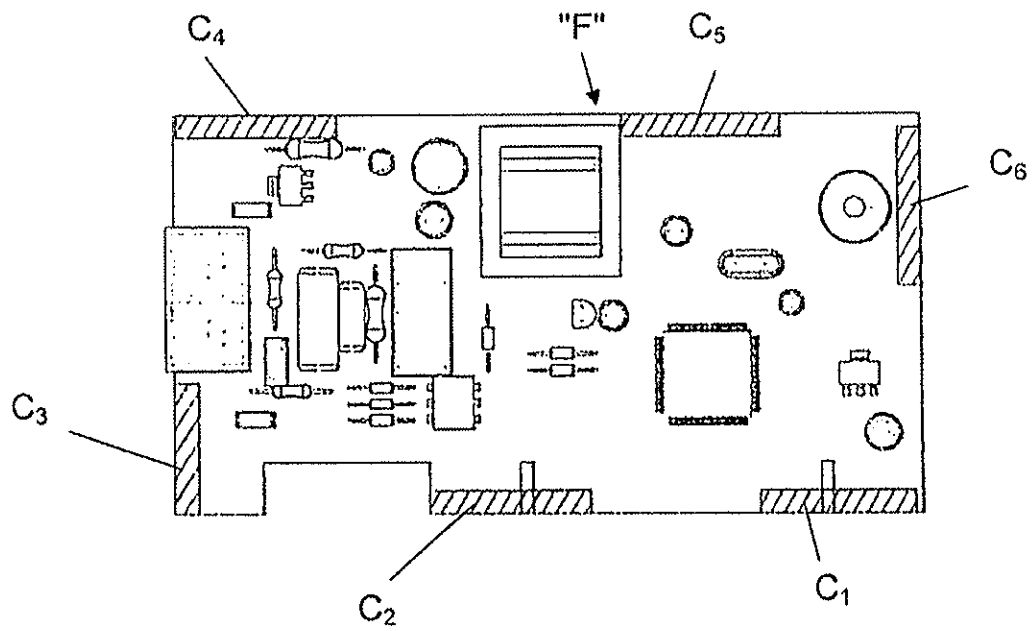


Fig. 20a

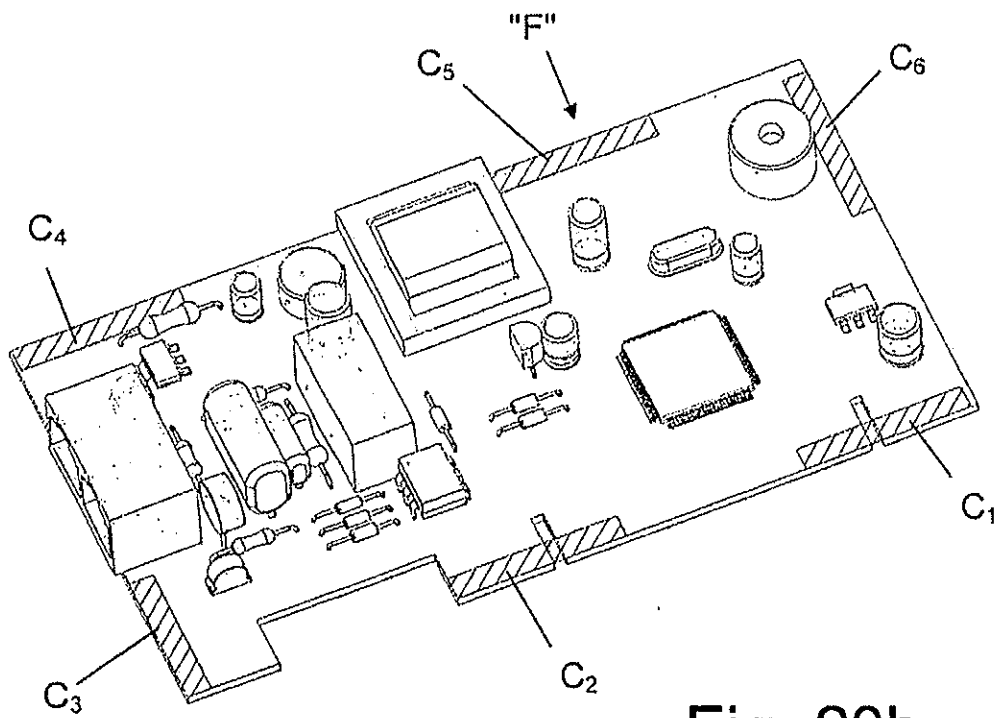


Fig. 20b

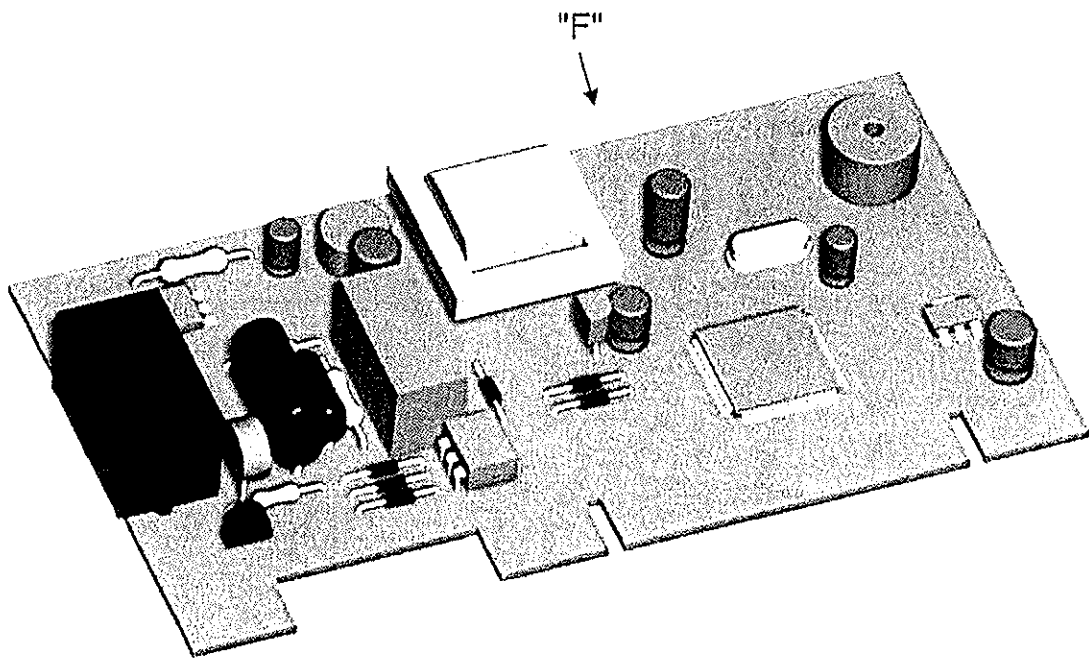


Fig. 21

"F"

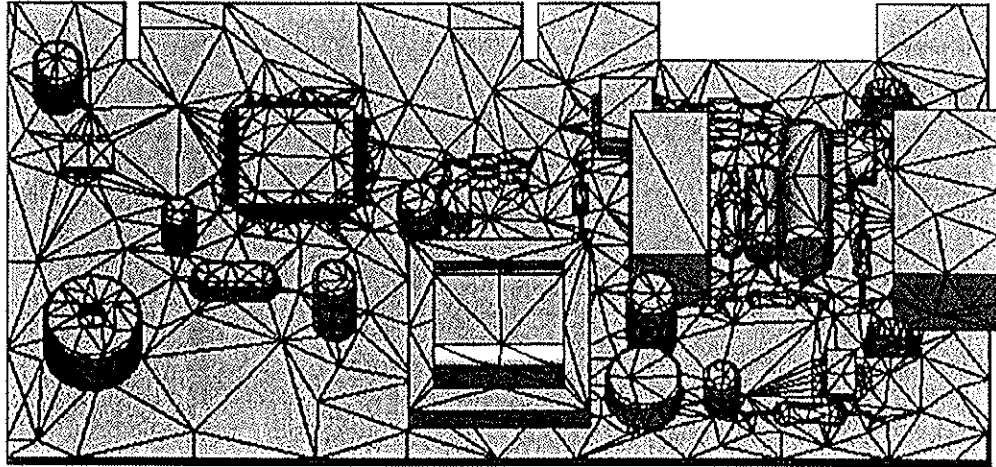


Fig. 22a

"F"

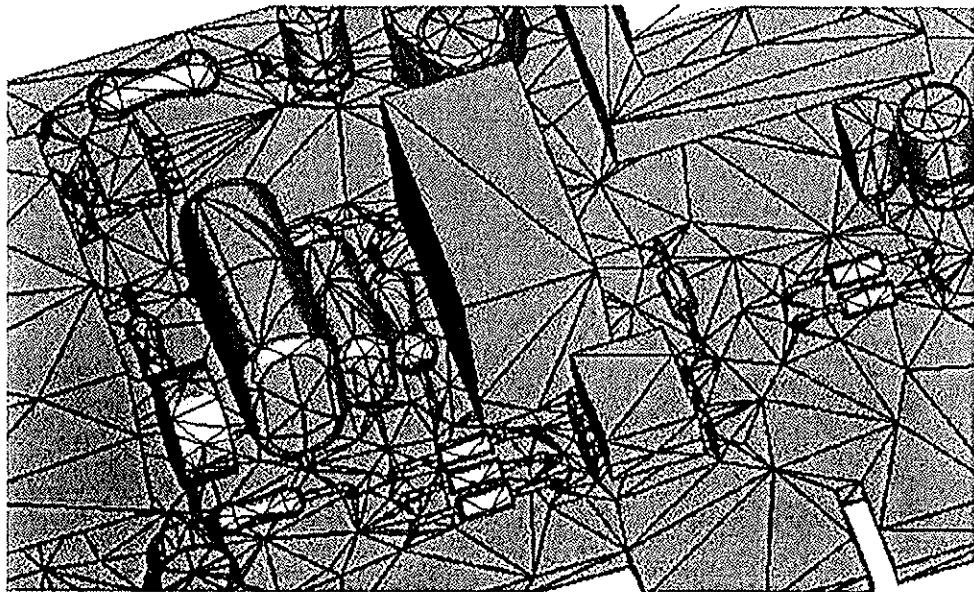


Fig. 22b

Max	1.0
— A	6.667e-01
— B	3.333e-01
Min	0.0

Displacement Magnitude
Iso Surfaces Contour
1st Natural Frequency
561.86 Hz

"F"

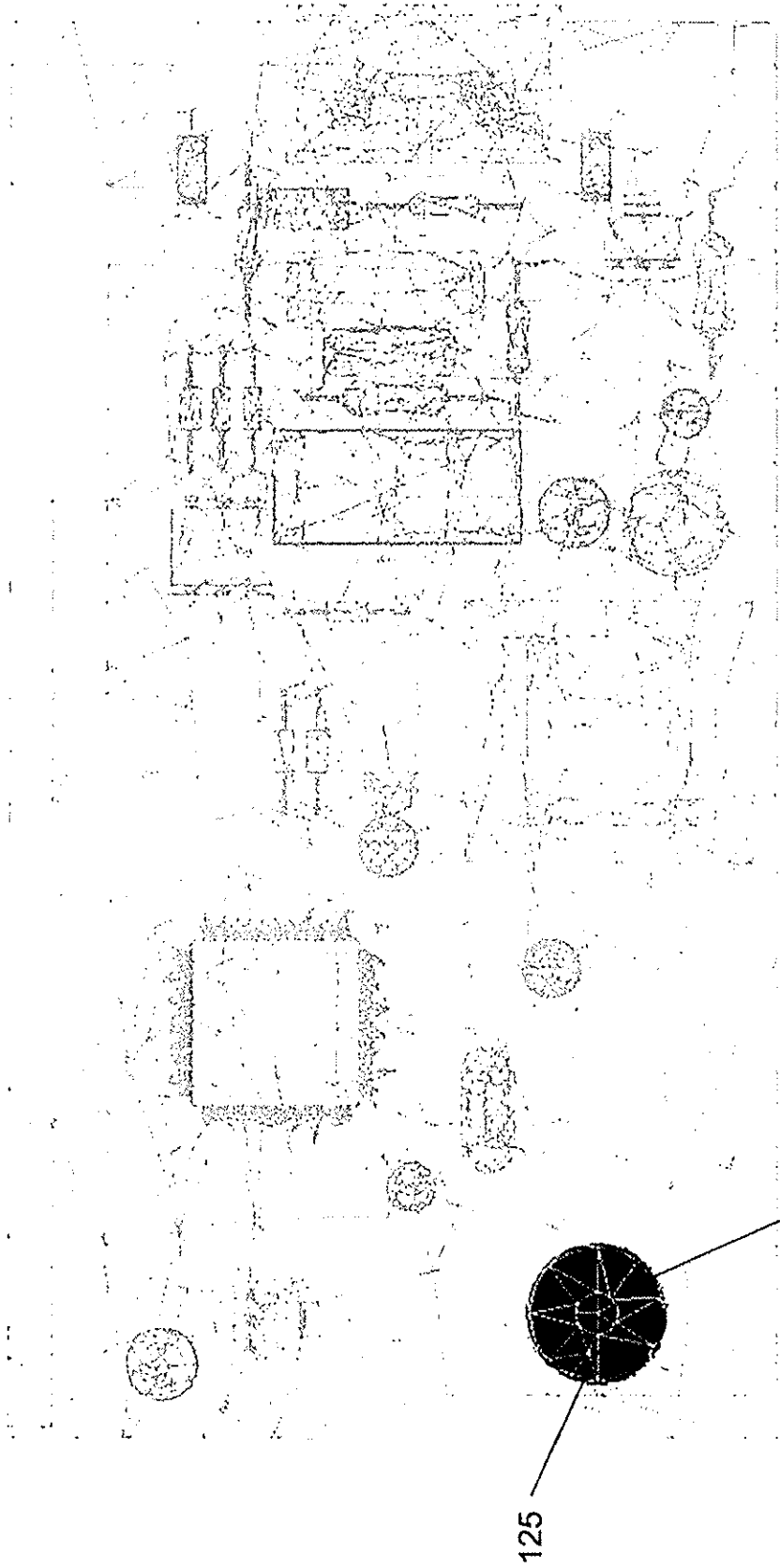


Fig. 23a

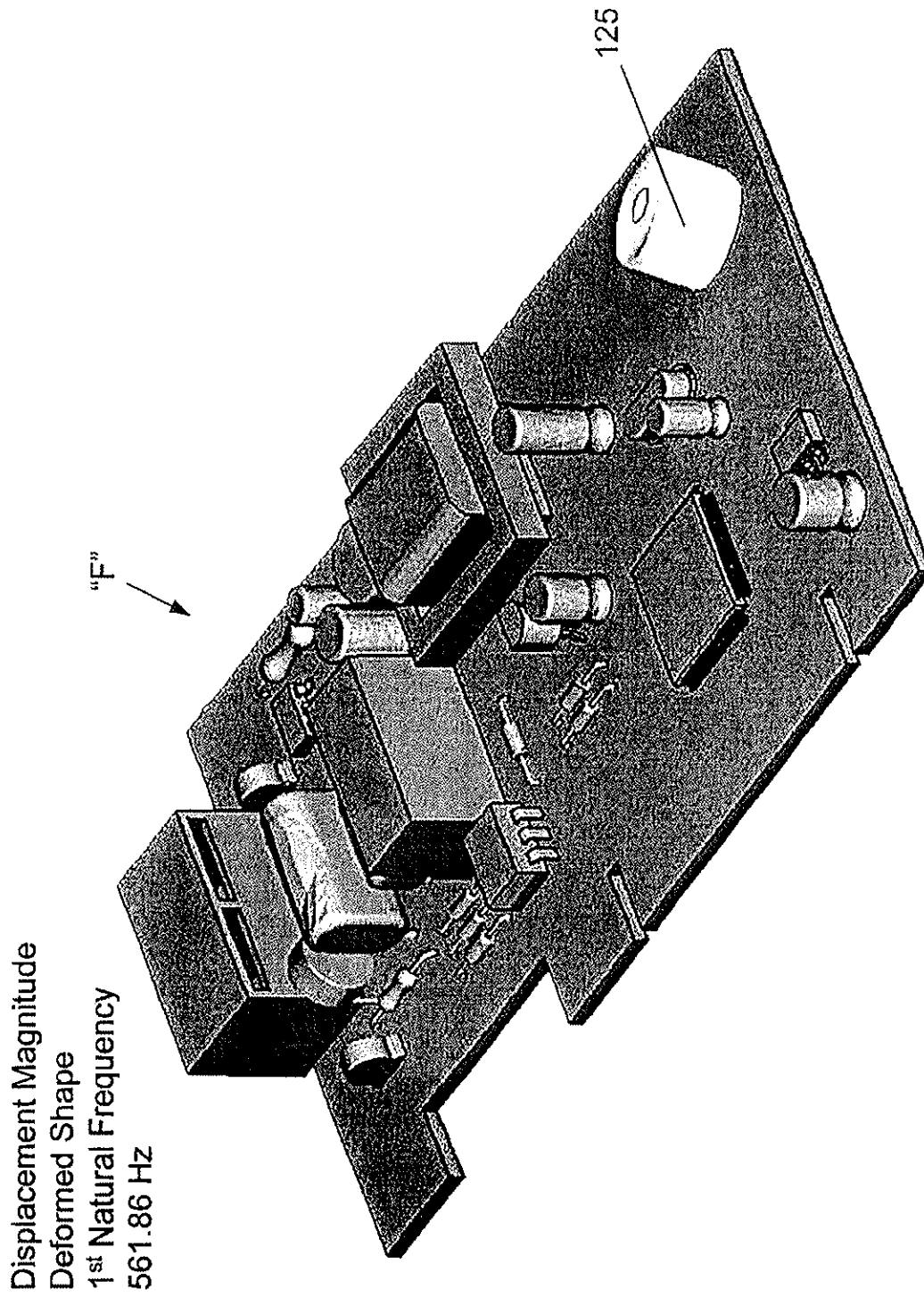


Fig. 23b

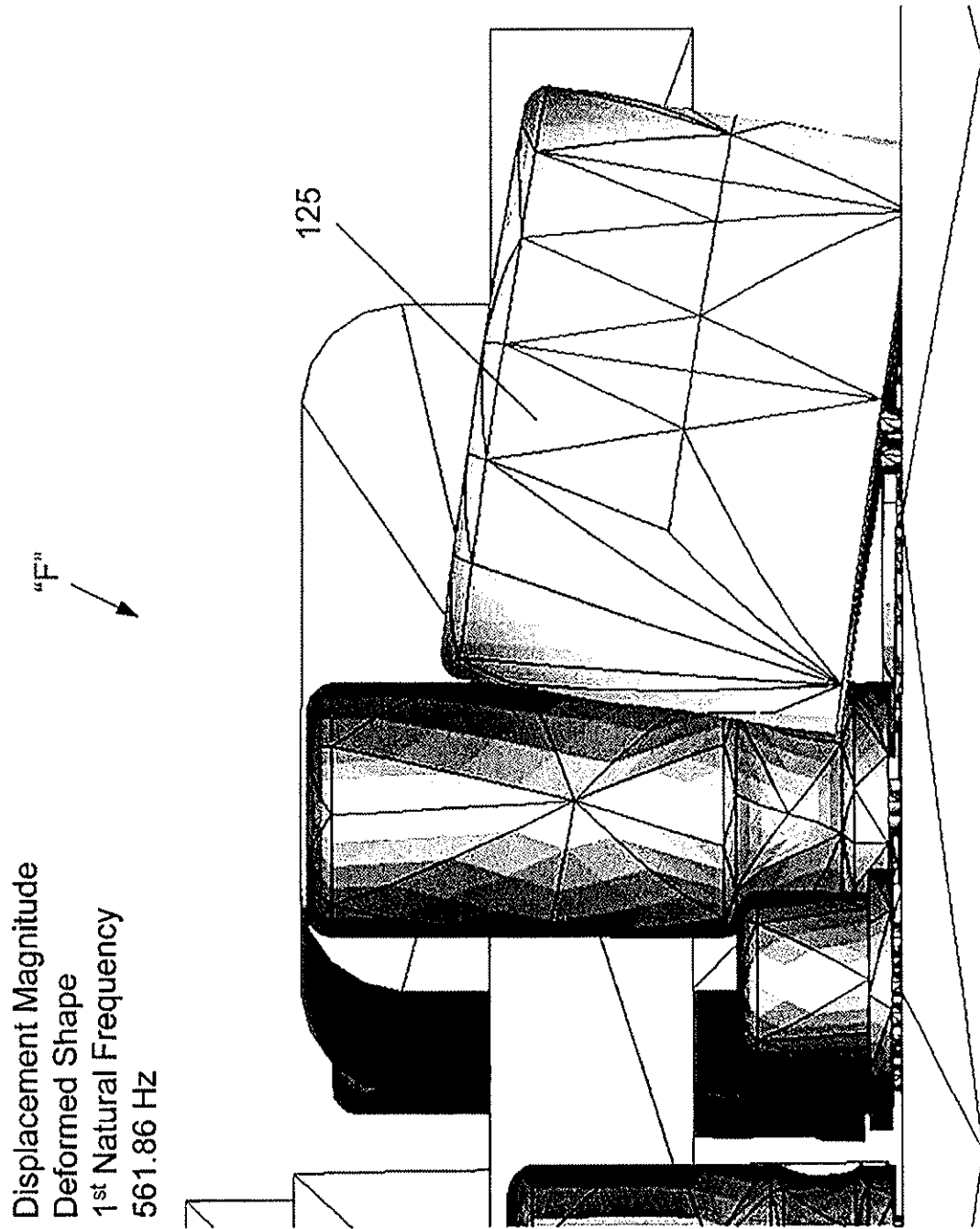


Fig. 23c

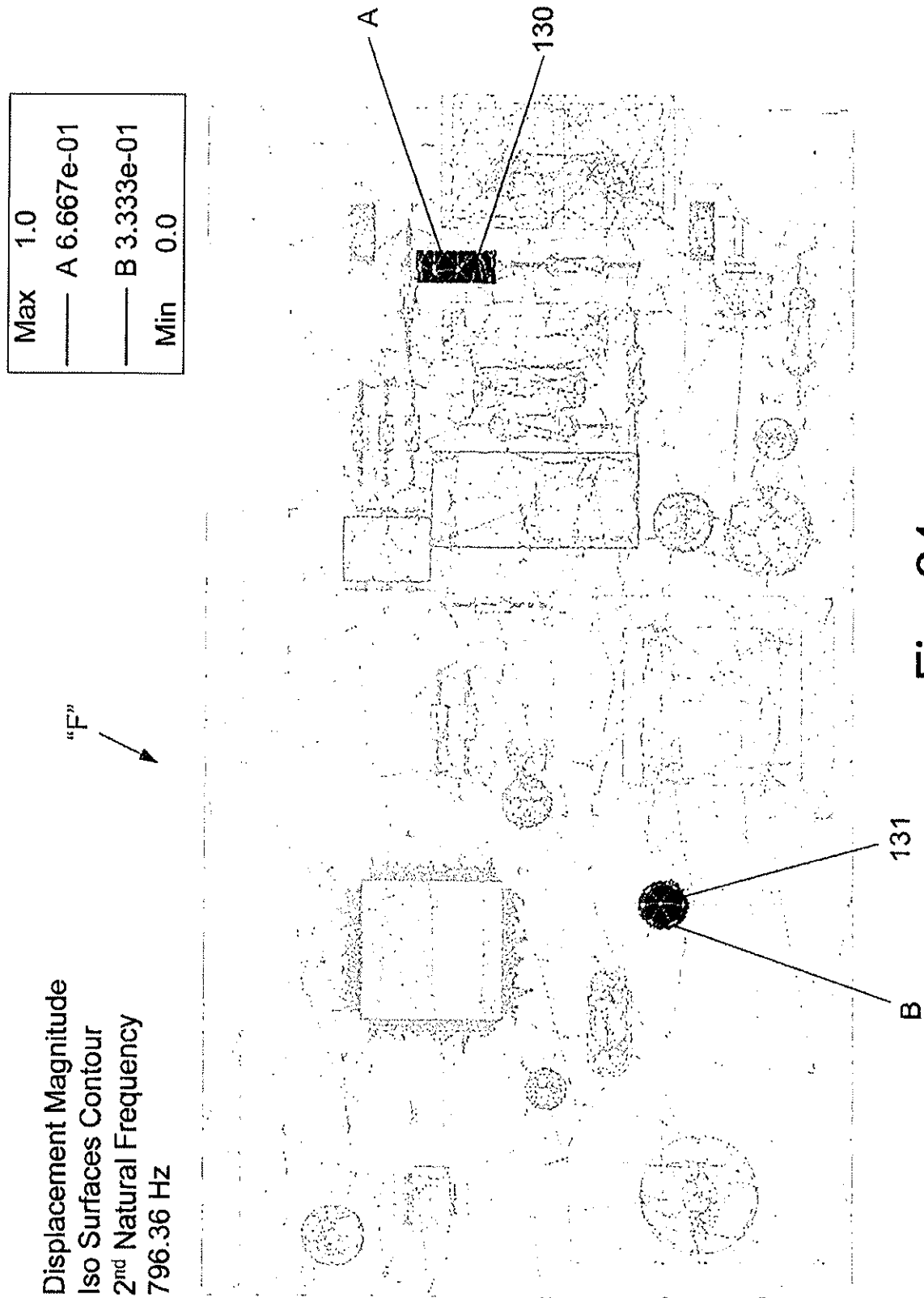


Fig. 24

Displacement Magnitude
Iso Surfaces Contour
3rd Natural Frequency
814.11 Hz

Max	1.0
— A	6.667e-01
— B	3.333e-01
Min	0.0

"F"
↓

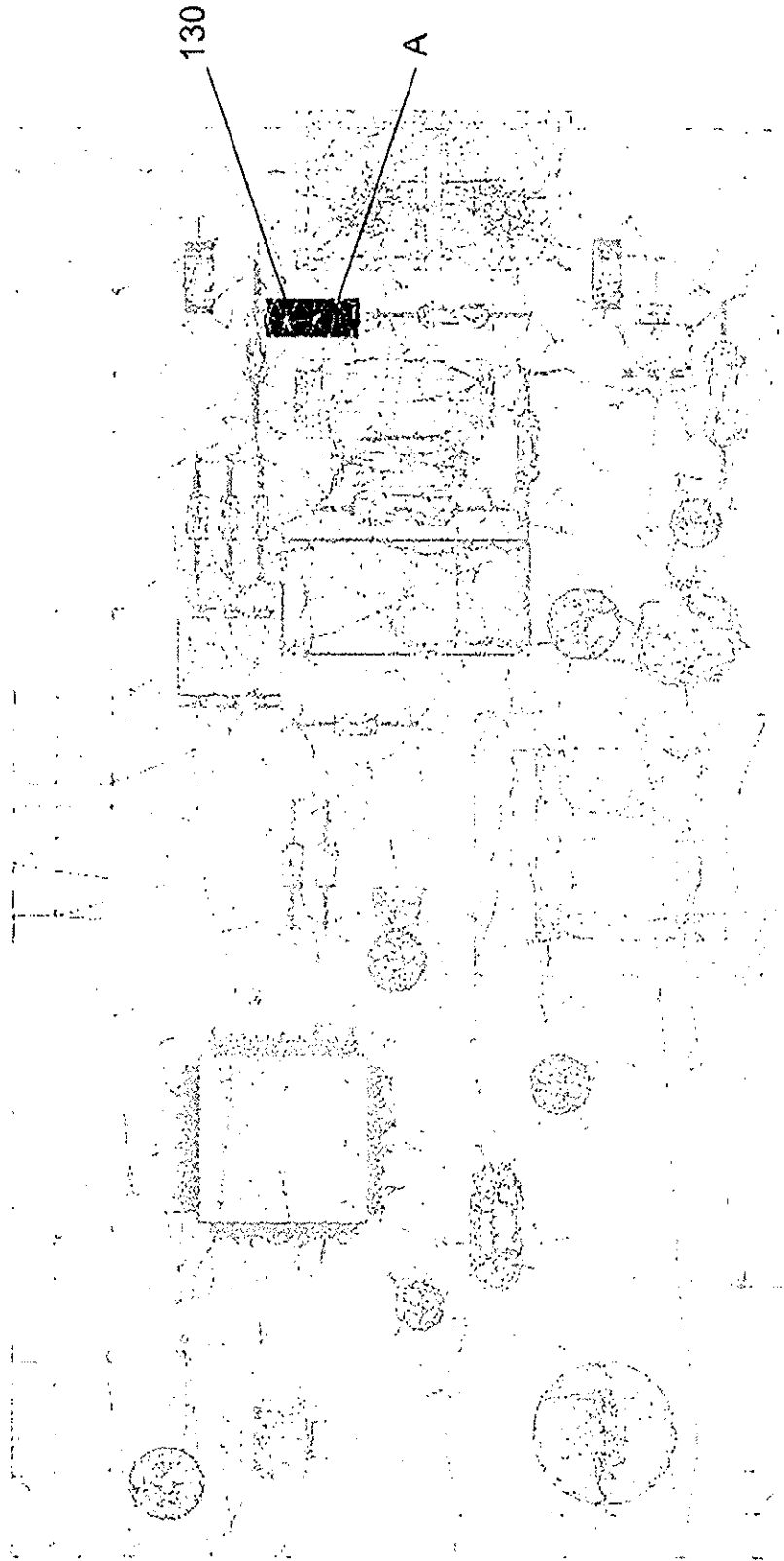


Fig. 25a

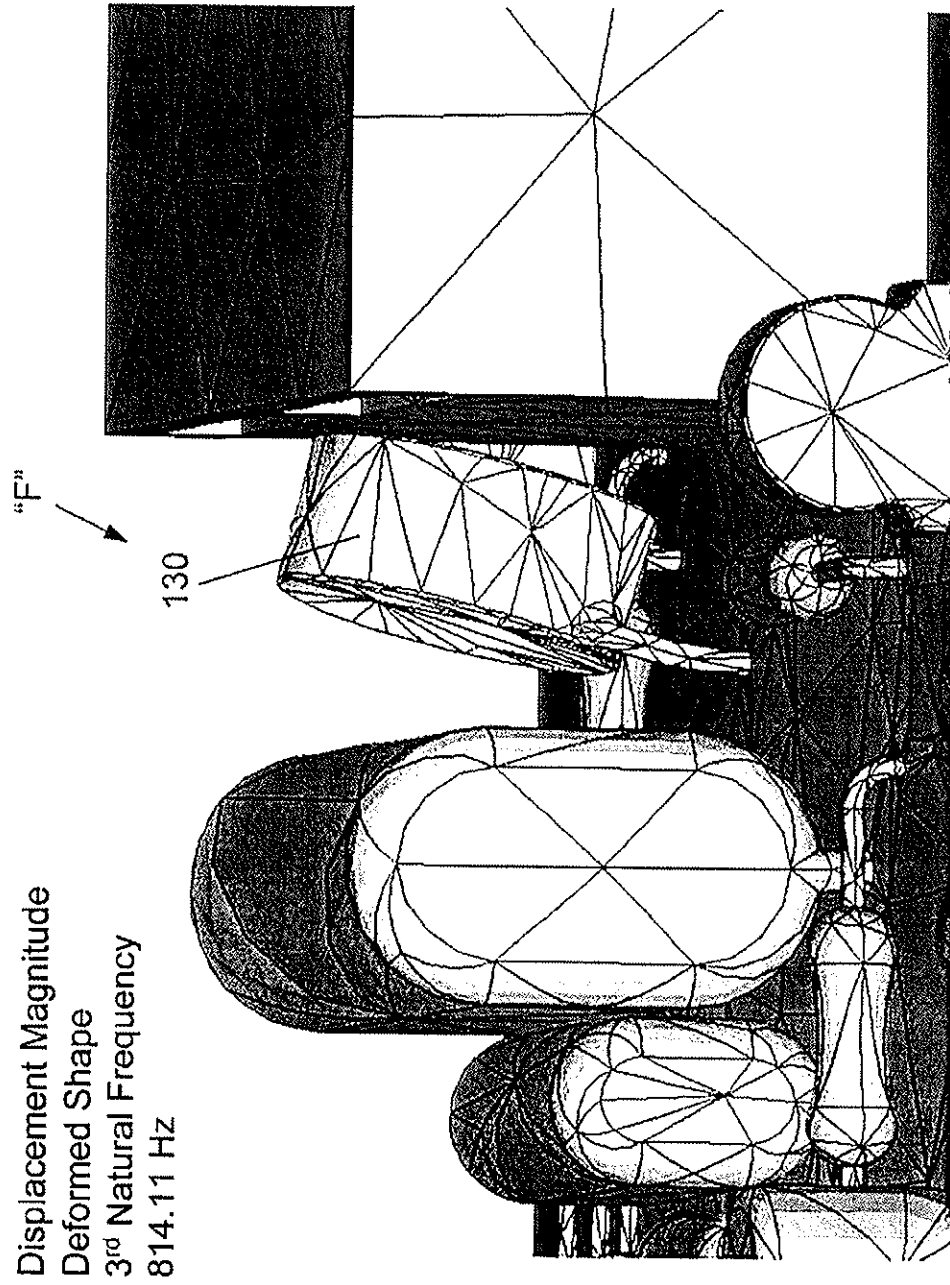


Fig. 25b

Max	1.0
—	A 6.667e-01
—	B 3.333e-01
Min	0.0

Displacement Magnitude
Iso Surfaces Contour
4th Natural Frequency
845.68 Hz

"F"

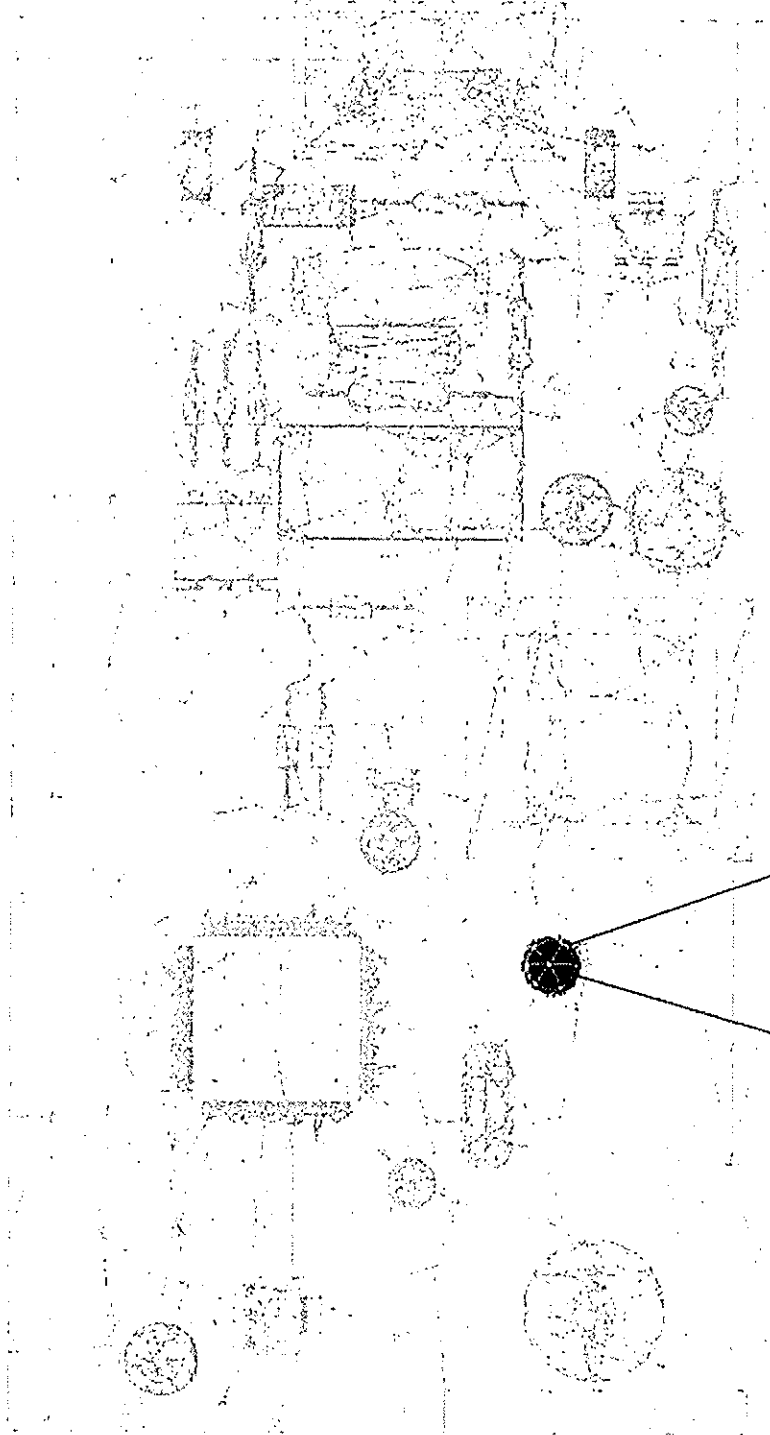


Fig. 26

Displacement Magnitude
Deformed Shape
5th Natural Frequency
1291.7 Hz

"F"

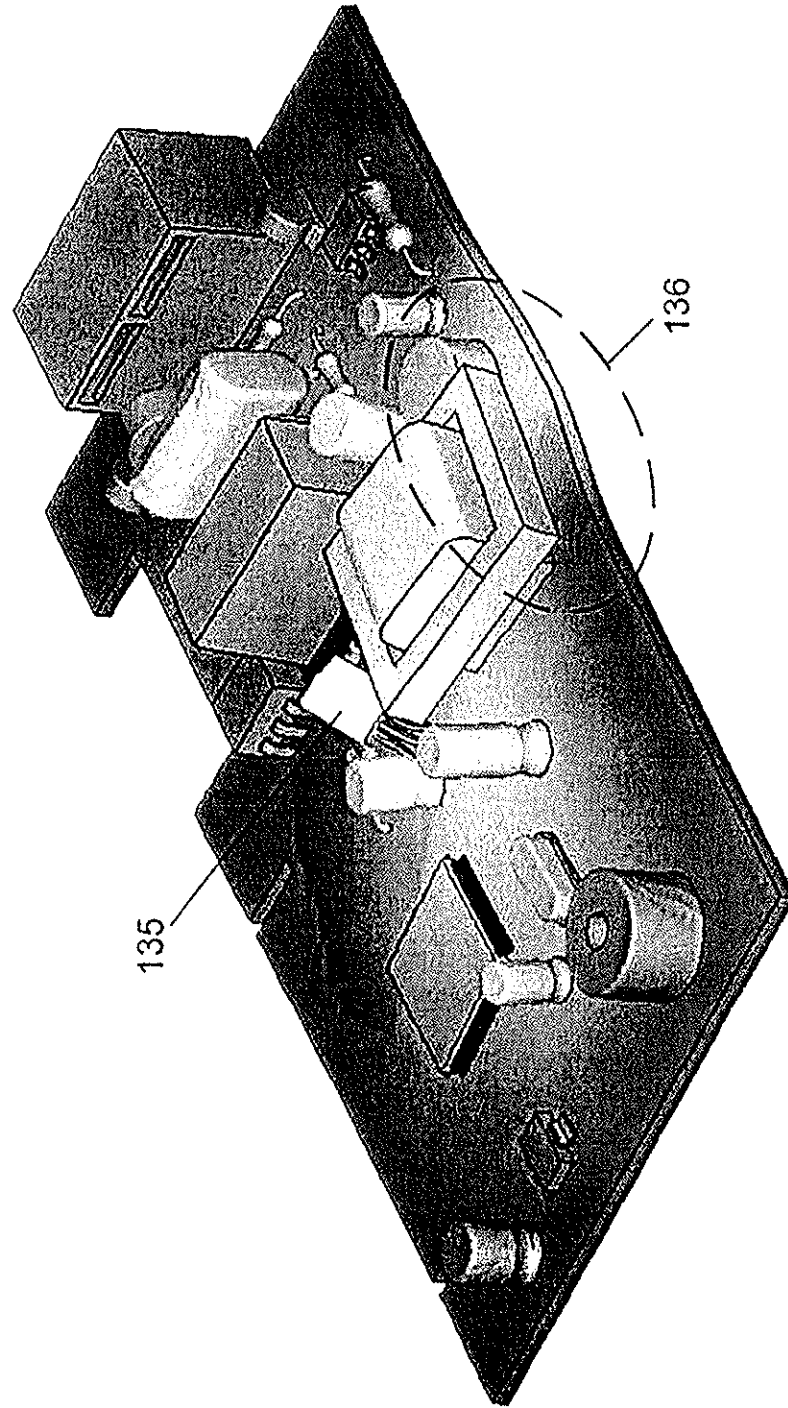


Fig. 27a

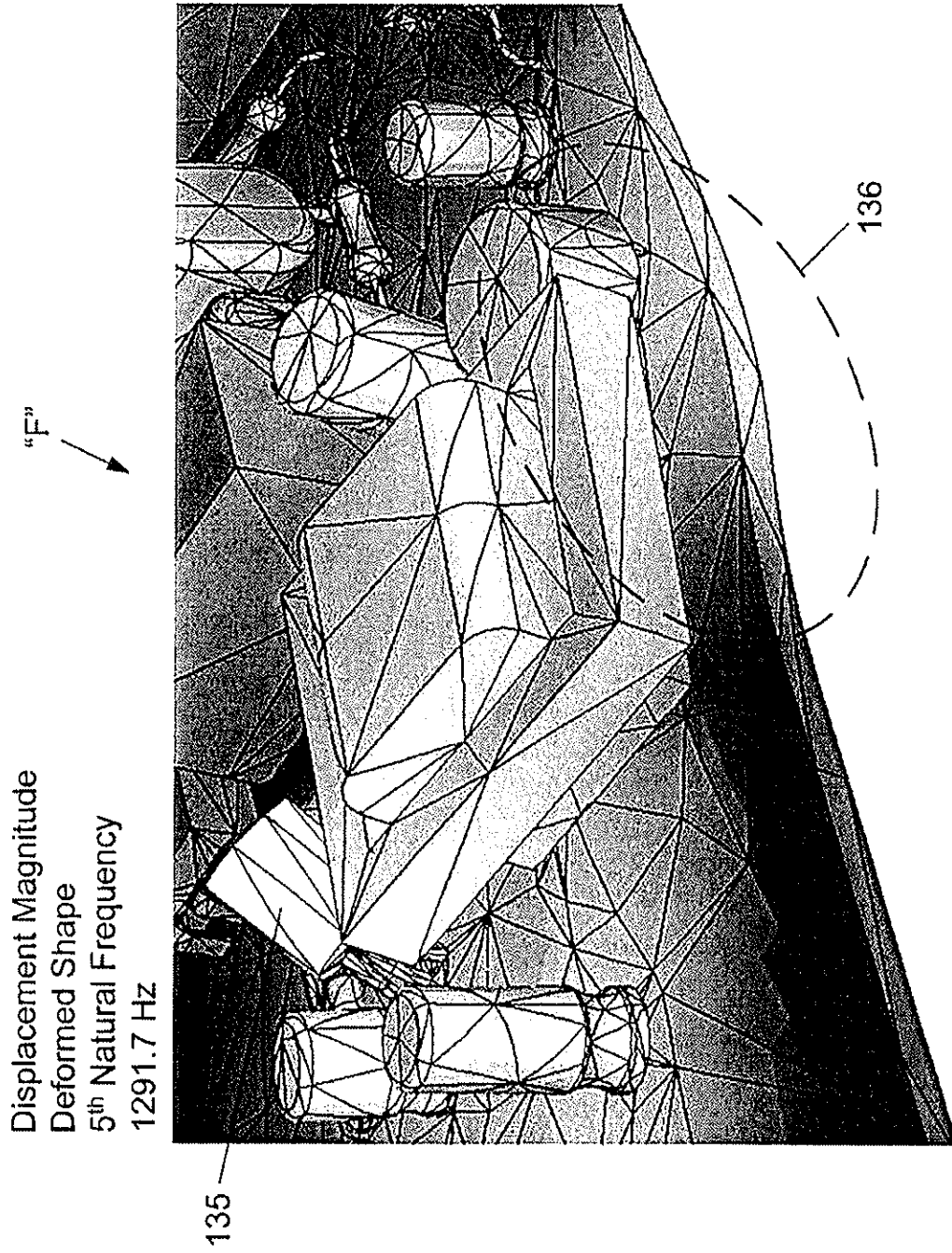


Fig. 27b

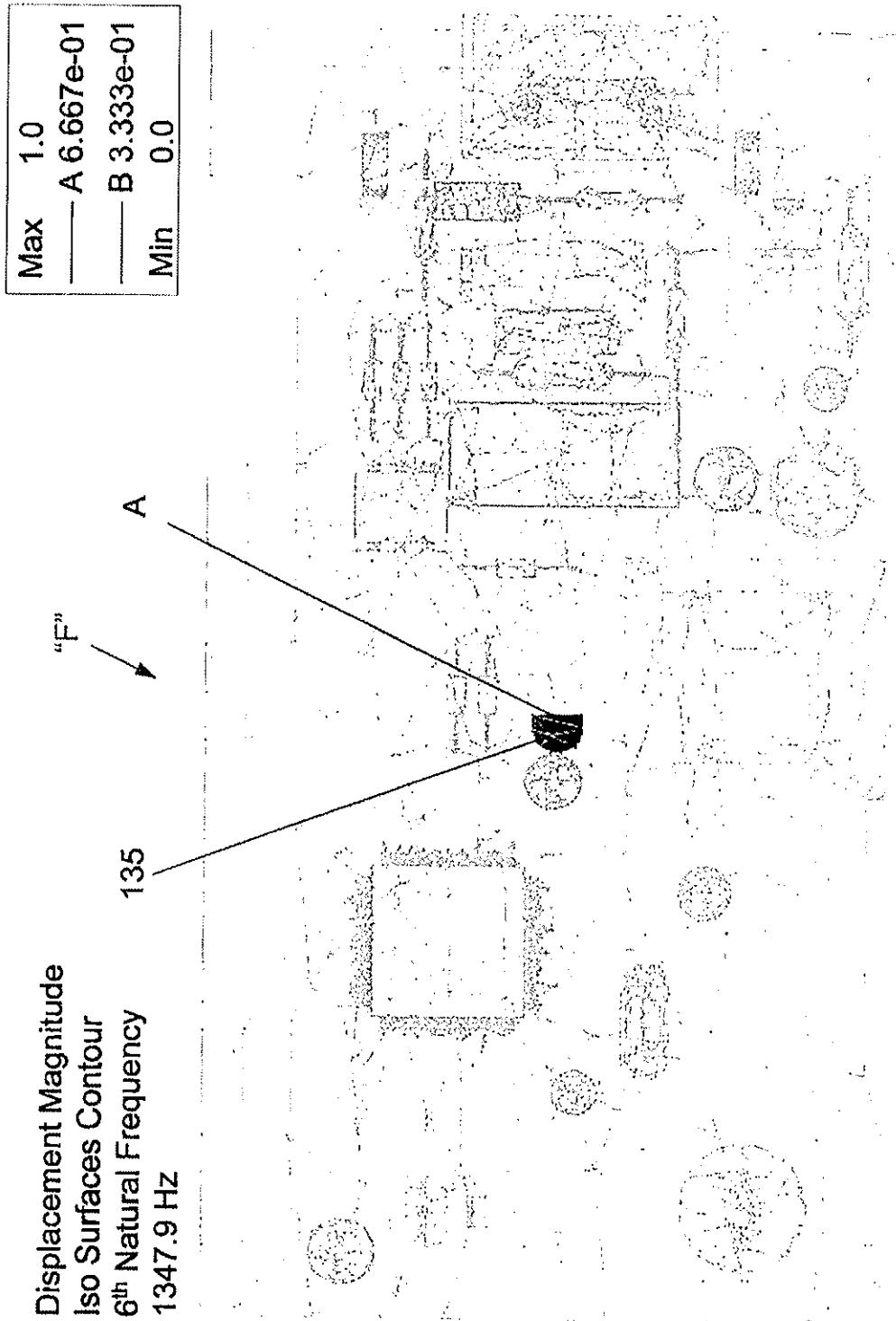


Fig. 28a

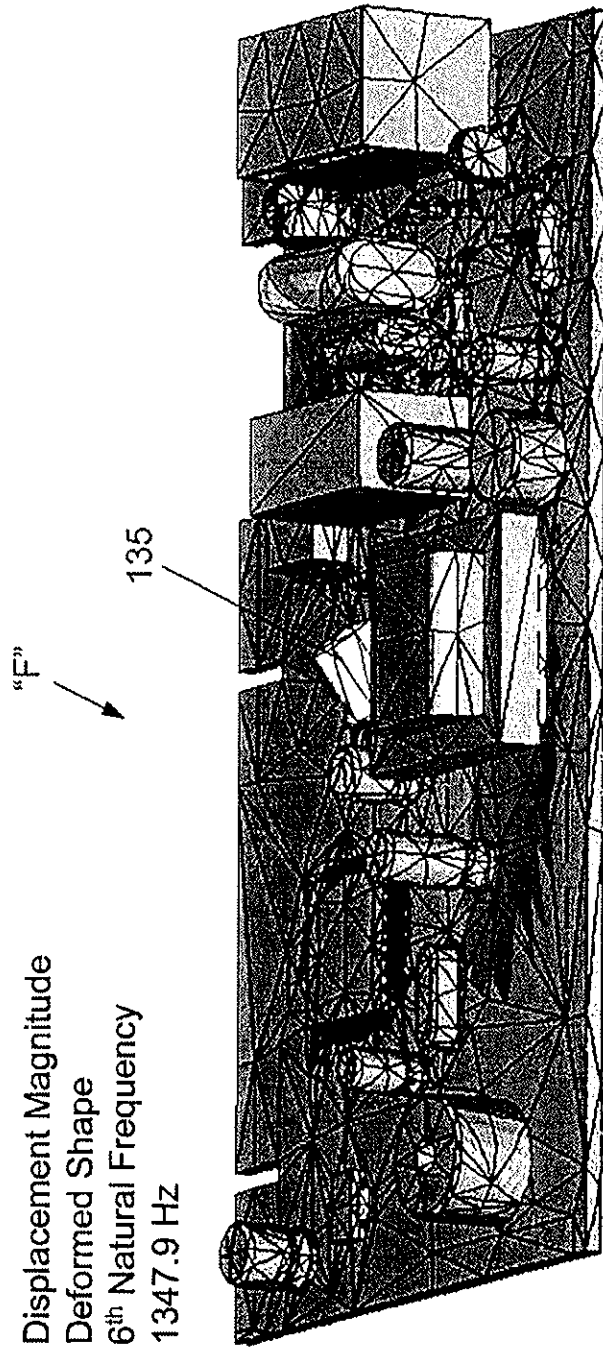


Fig. 28b

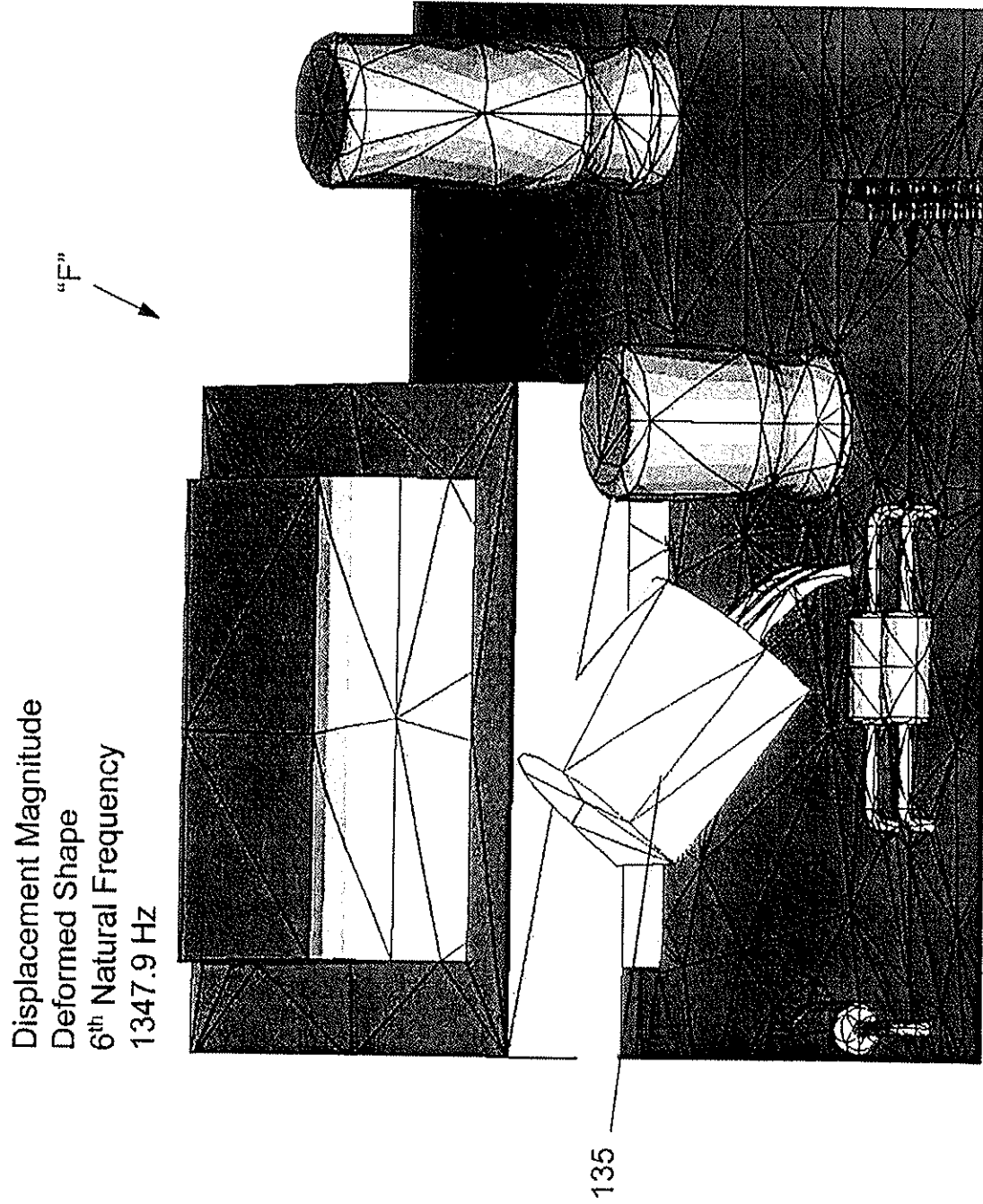


Fig. 28c

FAILED COMPONENTS

"F"

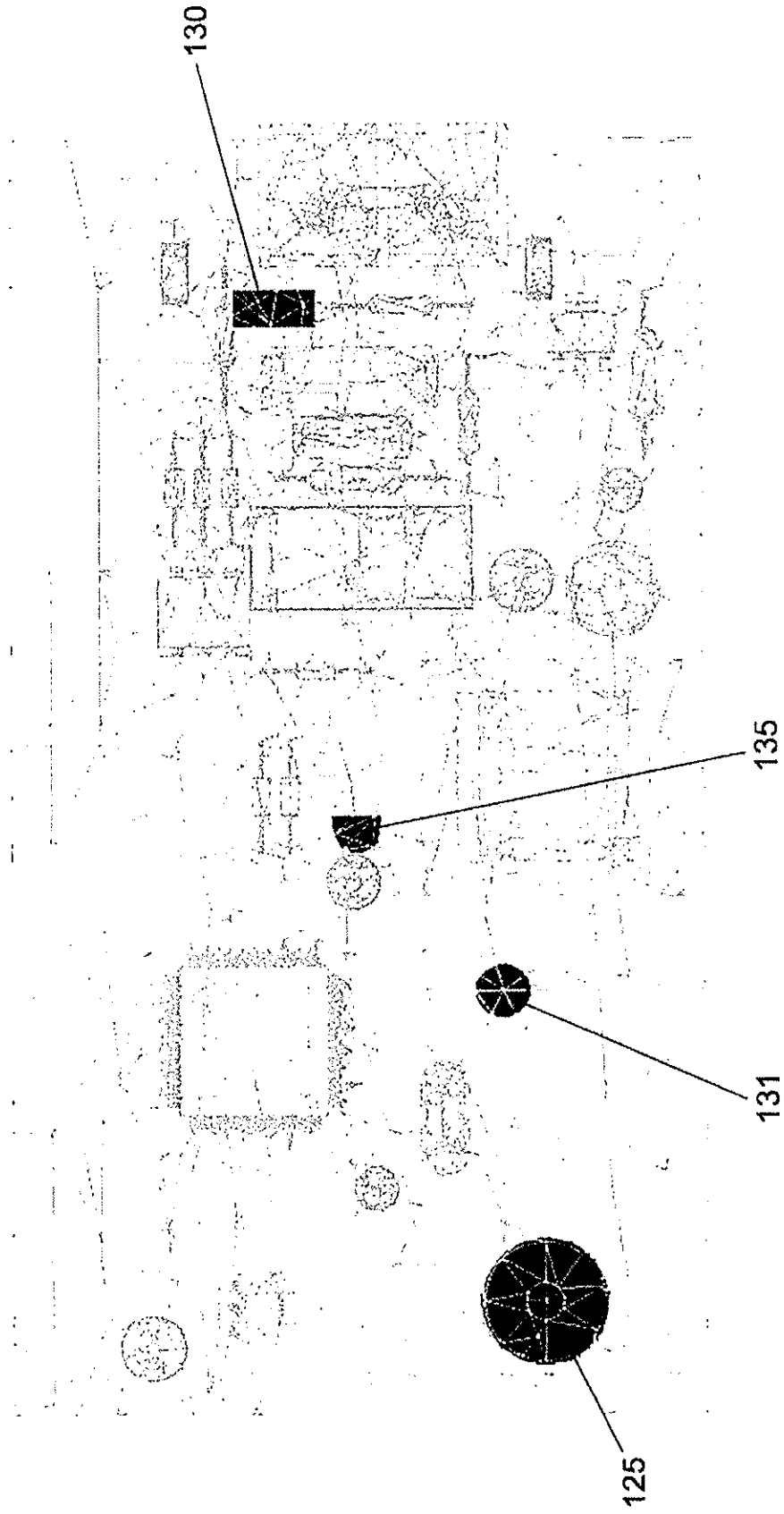


Fig. 29

No. of failures in each frequency range (of natural frequencies) [Hz]				Last natural frequency required for identifying all failures [Hz]	Last natural frequency index required for identifying all failures	Number of components failed in the test but not in the simulation	Number of components failed in the simulation out of those failed in the laboratory HALT test	PCB index
1.5K to 2.0K	1K to 1.5K	500 to 1K	0 to 500					
1	1	2	1	164.1	13	0	5 out of 5	1
0	0	6	1	814.85	13	2	7 out of 9	2
0	4	1	2	1203.30	12	1	7 out of 8	3
0	0	2	0	870.00	11	0	2 out of 2	4
3	0	1	0	1725.65	17	0	4 out of 4	5
0	0	0	1	185.08	4	0	1 out of 1	6
0	0	3	3	575.31	12	0	6 out of 6	7
0	5	1	0	1324.7	14	0	6 out of 6	8
0	0	5	3	787.10	11	1	8 out of 9	9
0	2	2	0	1376.87	7	0	4 out of 4	10
4	12	23	11			4	50 out of 54	

Fig. 30

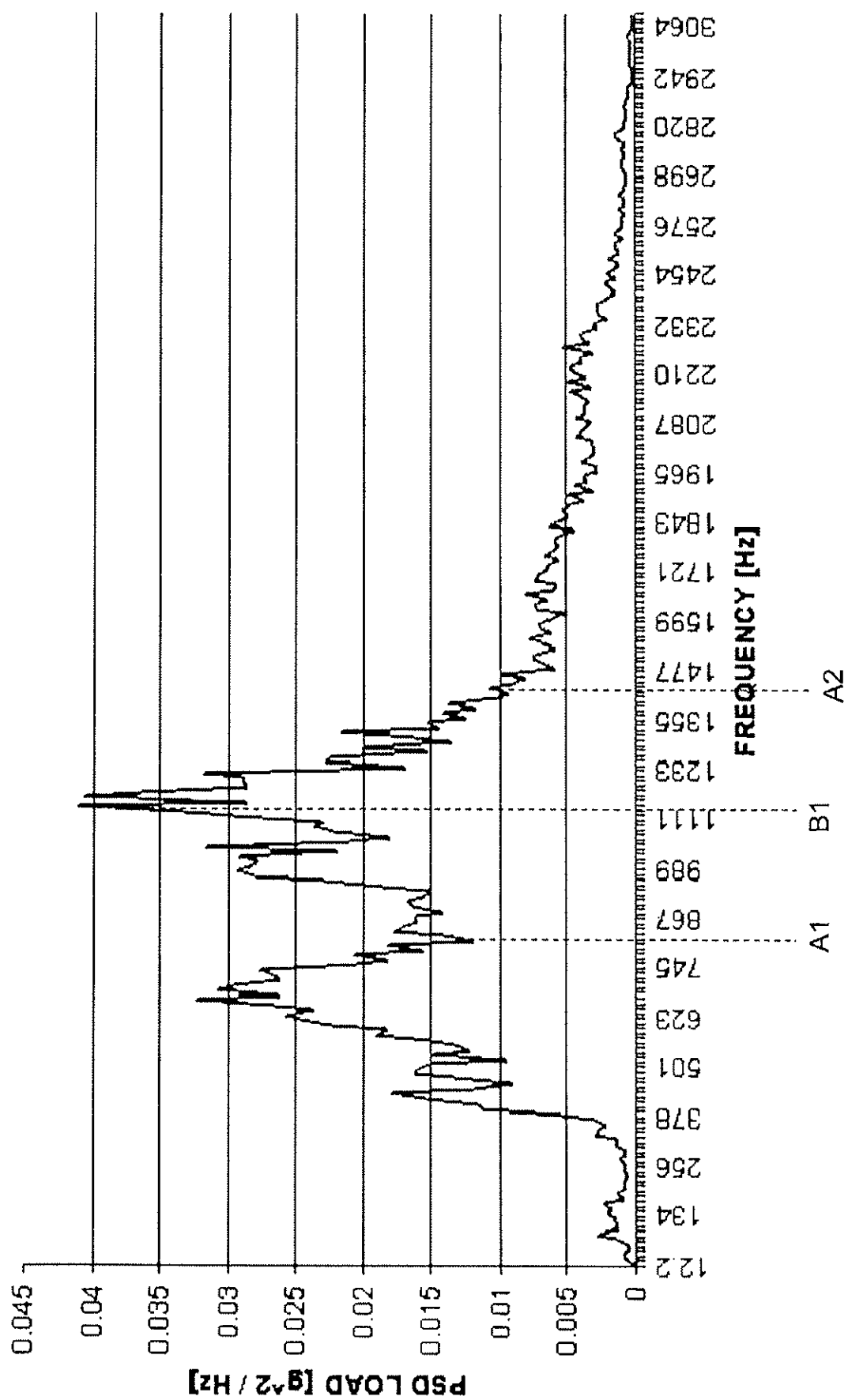


Fig. 31