FIG.1

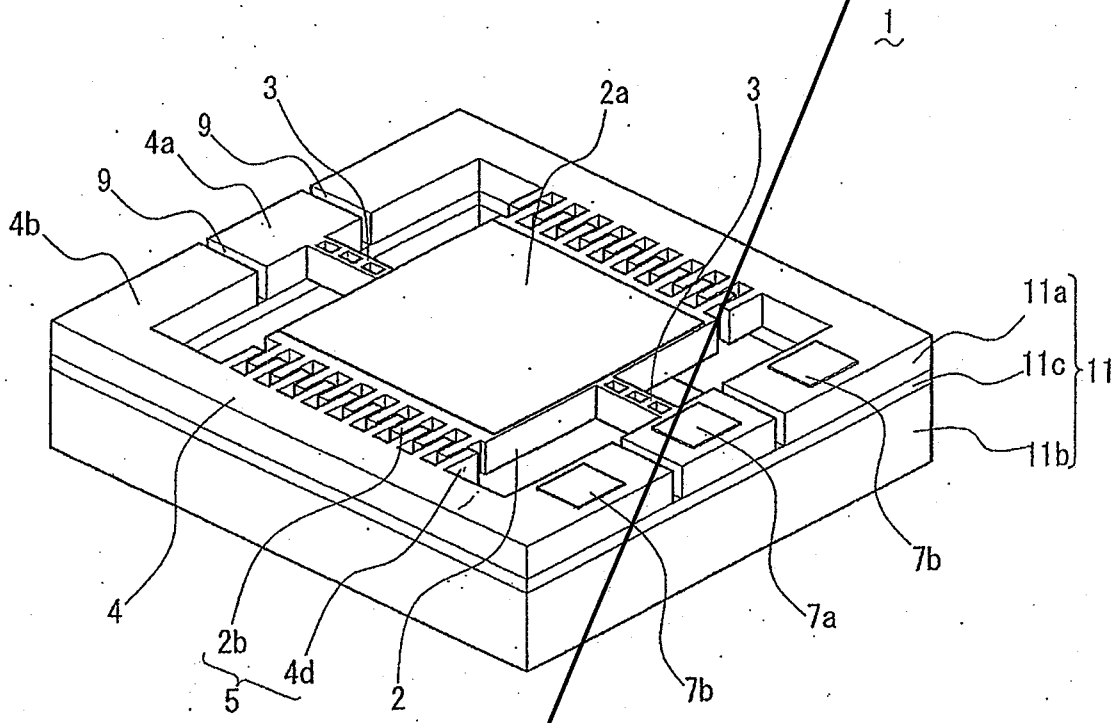

1
3
2a
3
4a
9
9
4b
11a
11c
11
11b
7b
7a
4
2b
4d
5
2
7b

FIG.2

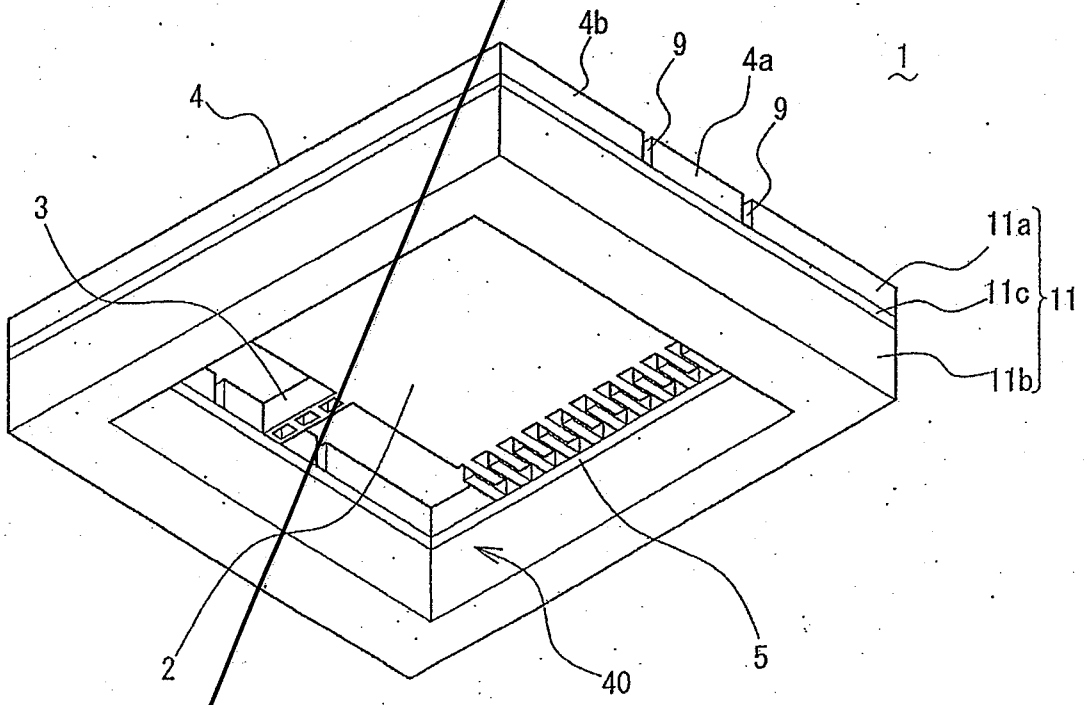

4b
9
4a
1
4
9
3
11a
11c
11
11b
2
40
5

FIG.3

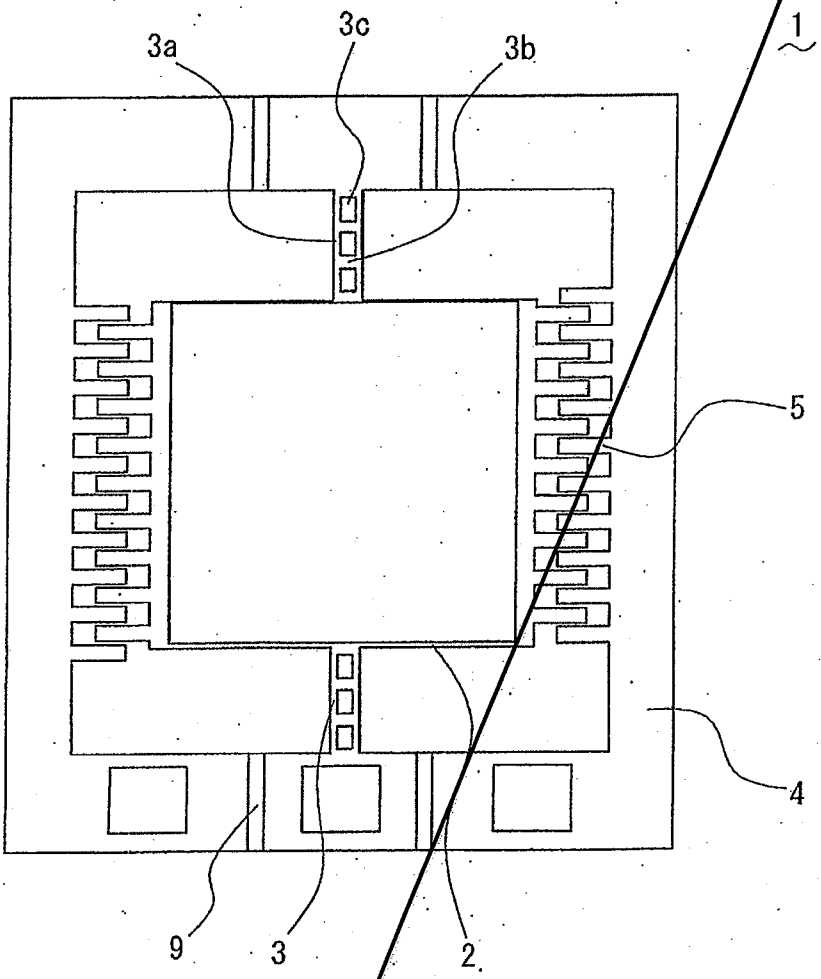


FIG. 4

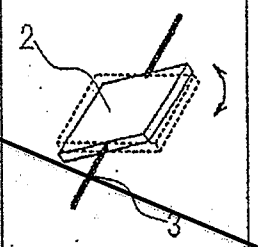
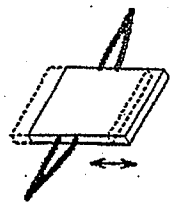
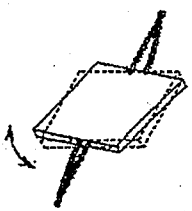
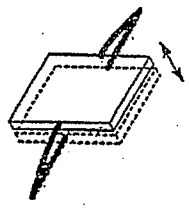
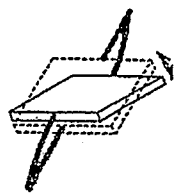
| Vibration Mode | | Torsion | In-plane Translation | In-plane Turn | Out-of-plane Translation | Out-of-plane Turn |
|---|---|---|---|---|---|---|
| | |   |  |  |  |  |
| Resonance Frequency | Straight Hinge | 75.5Hz | 640Hz | 754Hz | 3730Hz | 7005Hz |
| | Ladder Hinge | 75.5Hz | 1409Hz | 1662Hz | 3913Hz | 7343Hz |

FIG.5

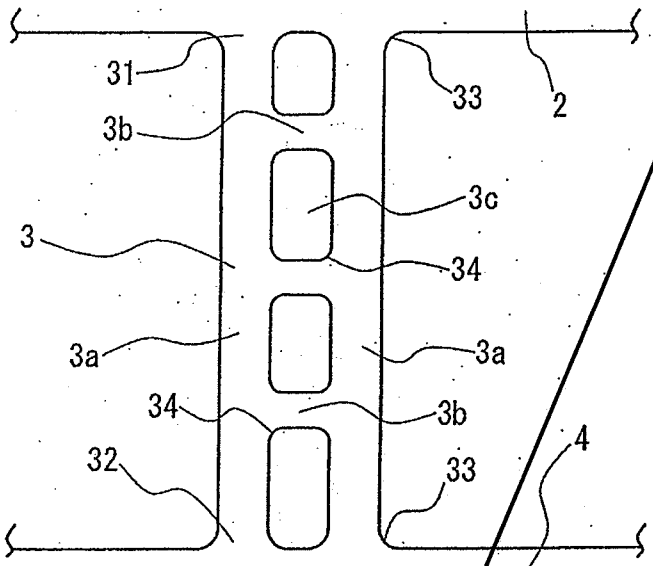
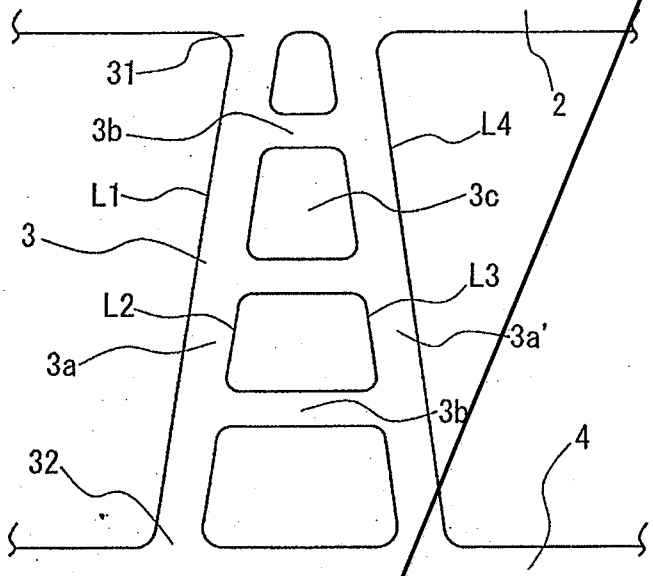


FIG.6

(a)




(b)

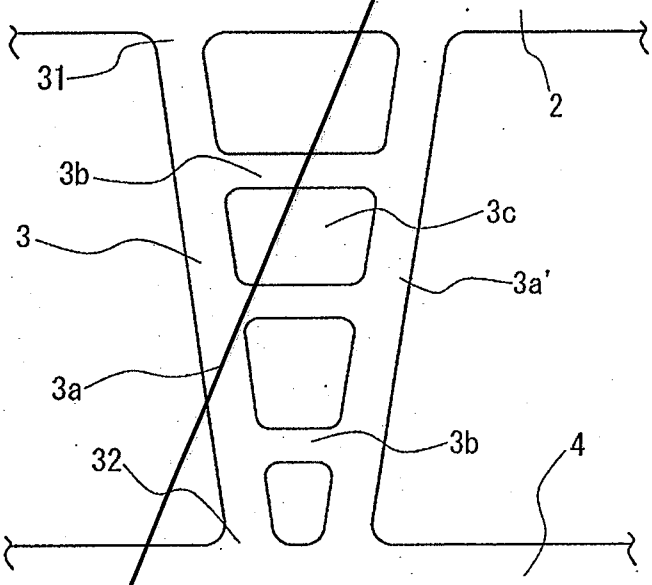
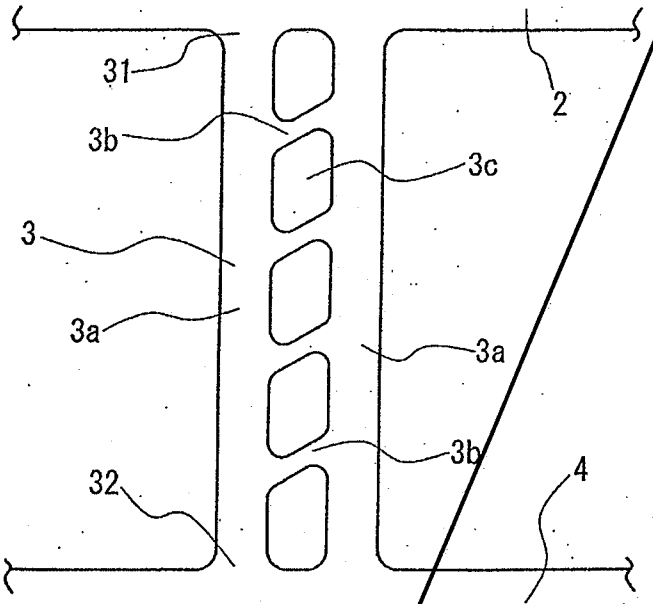


FIG.7

(a)




(b)

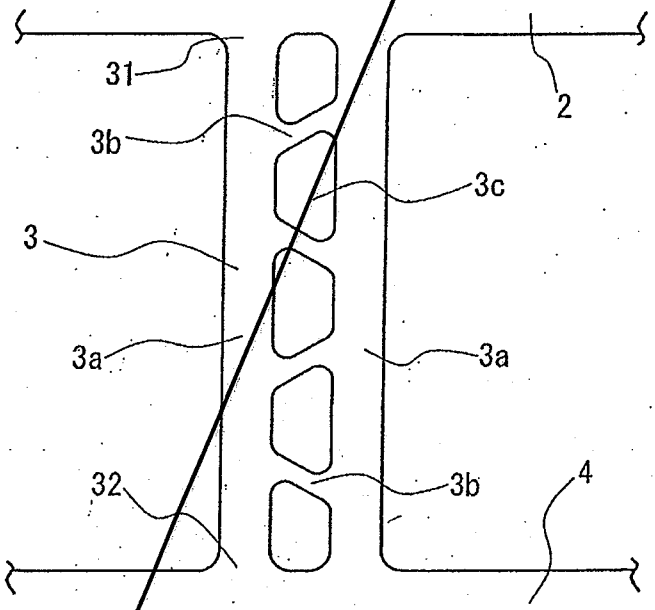


FIG.8

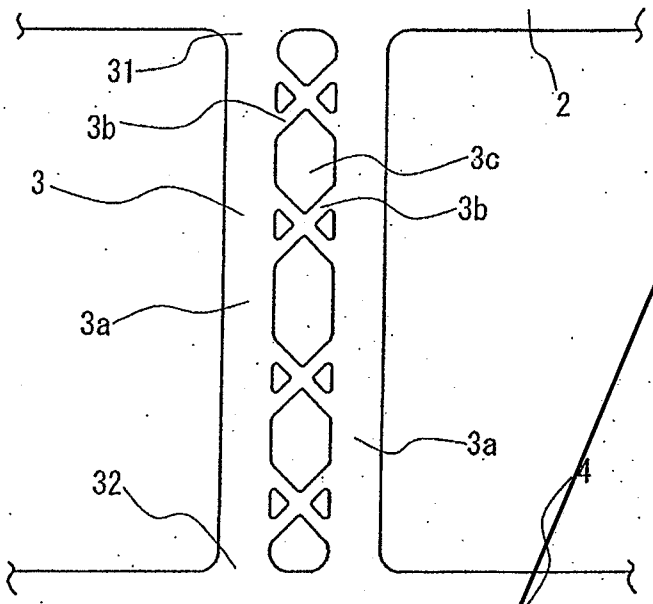


FIG.9

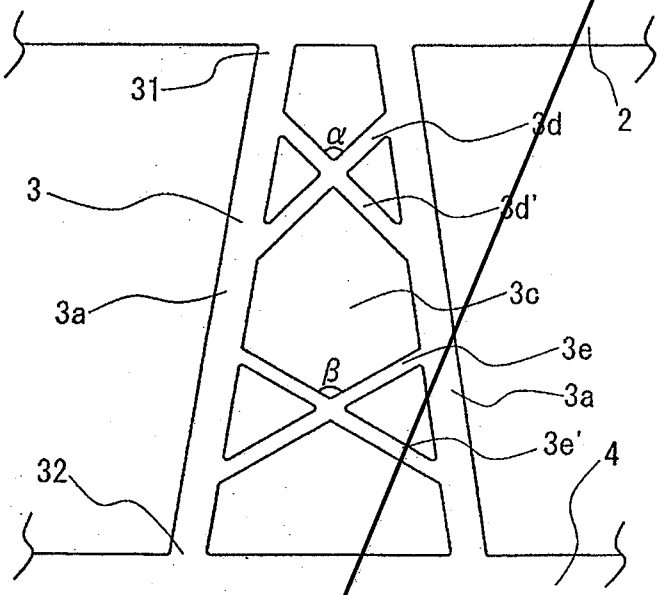



FIG.10

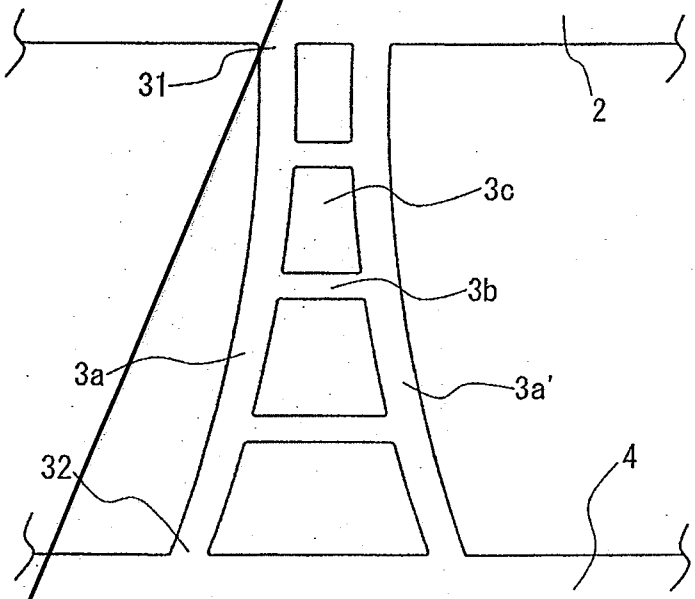


FIG.1

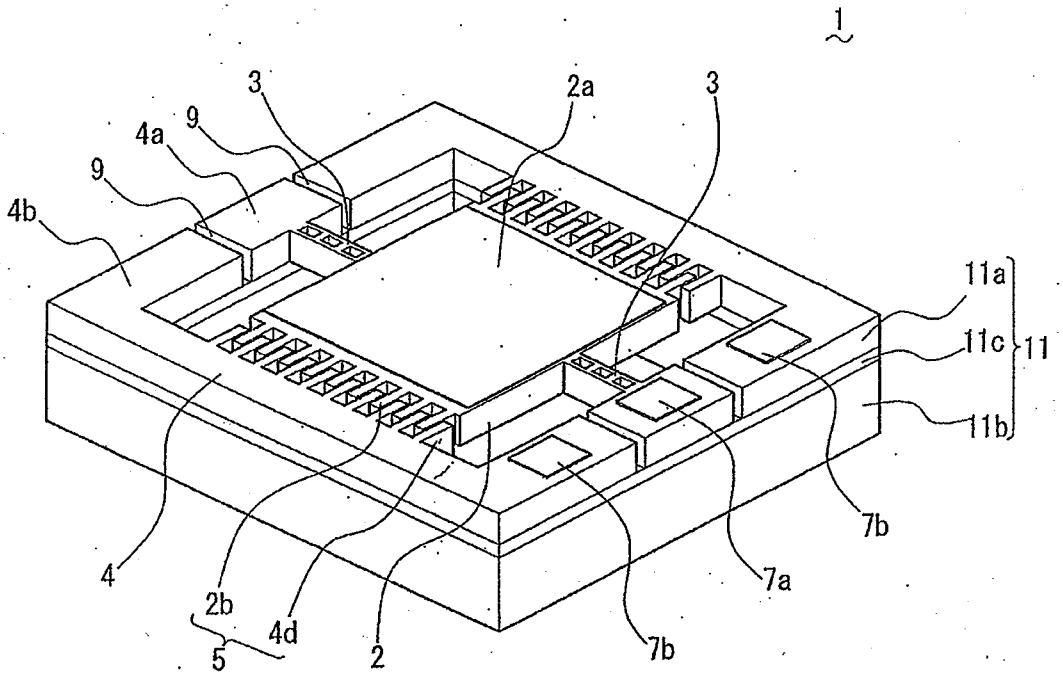

1
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4a
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11c
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11b
7b
7a
4
2b
4d
2
7b
5

FIG.2

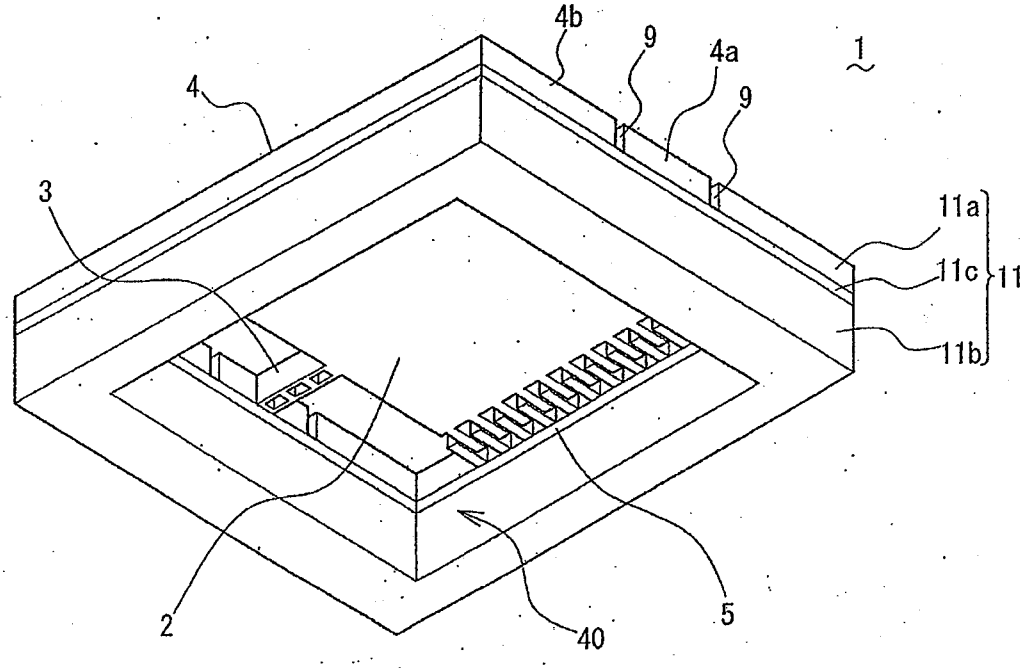

4b
9
4a
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4
9
3
11a
11c
11
11b
2
40
5

FIG.3

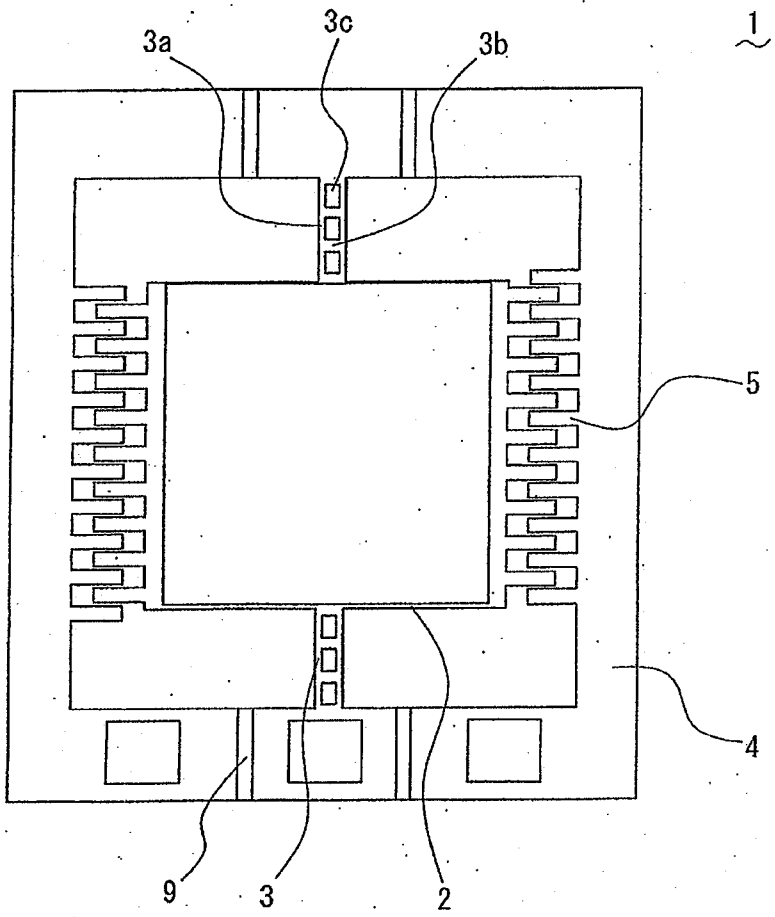


FIG. 4

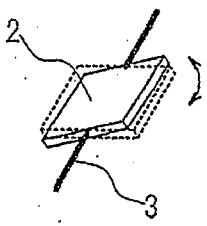
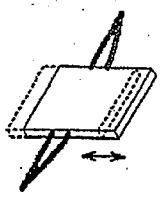
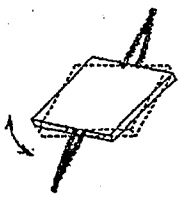
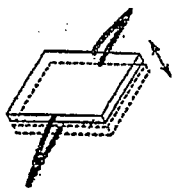
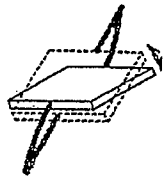
| Vibration Mode | | Torsion | In-plane Translation | In-plane Turn | Out-of-plane Translation | Out-of-plane Turn |
|---|---|---|---|---|---|---|
| | |   |  |  |  |  |
| Resonance Frequency | Straight Hinge | 75.5Hz | 640Hz | 754Hz | 3730Hz | 7005Hz |
| | Ladder Hinge | 75.5Hz | 1409Hz | 1662Hz | 3913Hz | 7343Hz |

FIG.5

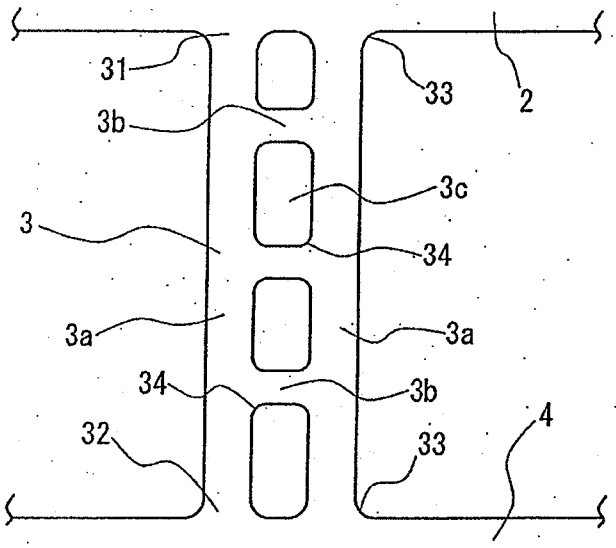
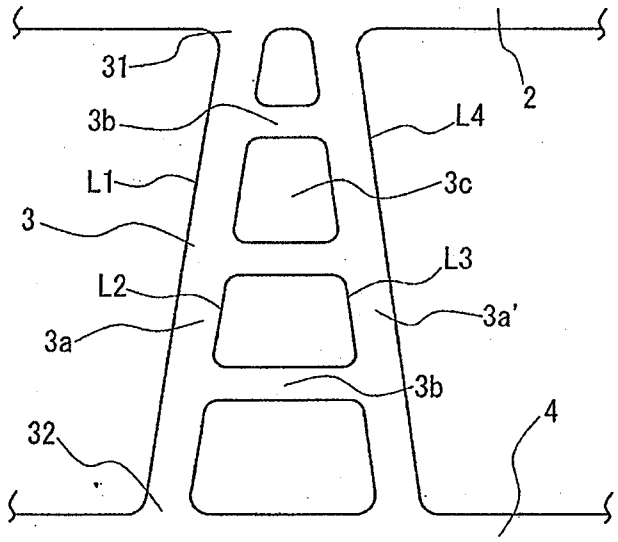


FIG.6

(a)




(b)

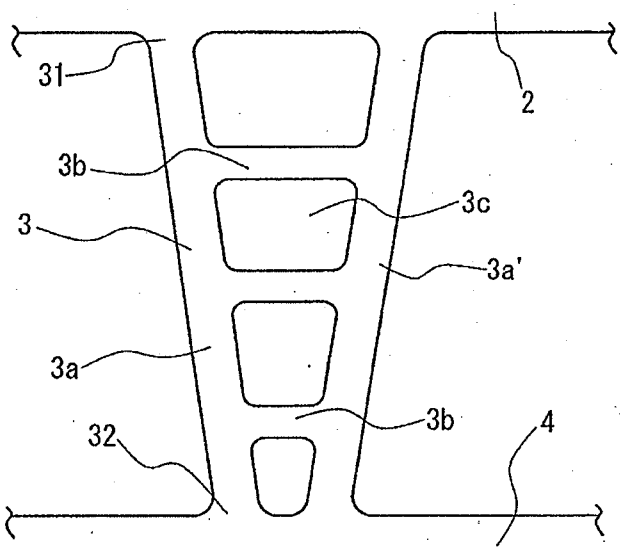
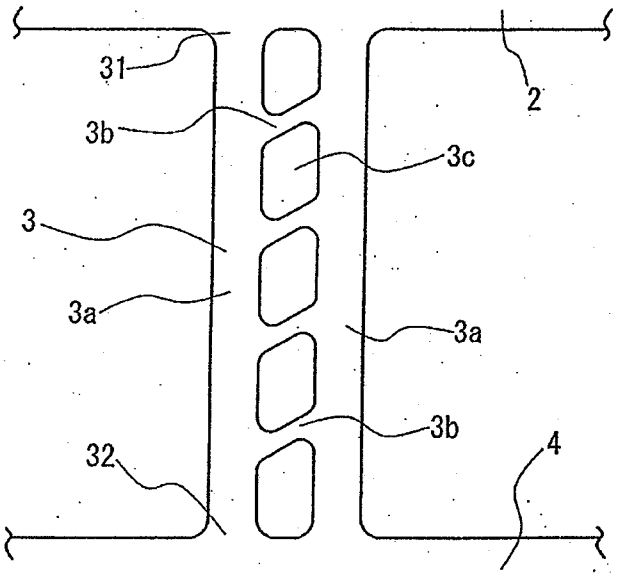


FIG.7

(a)




(b)

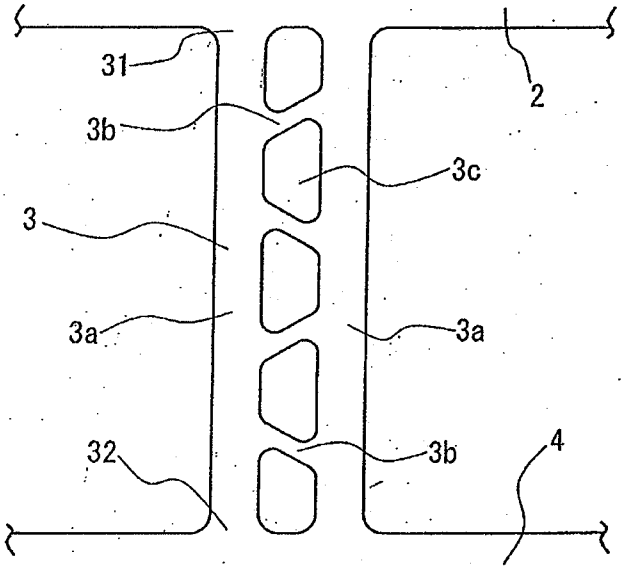


FIG.8

