

FIG. 1

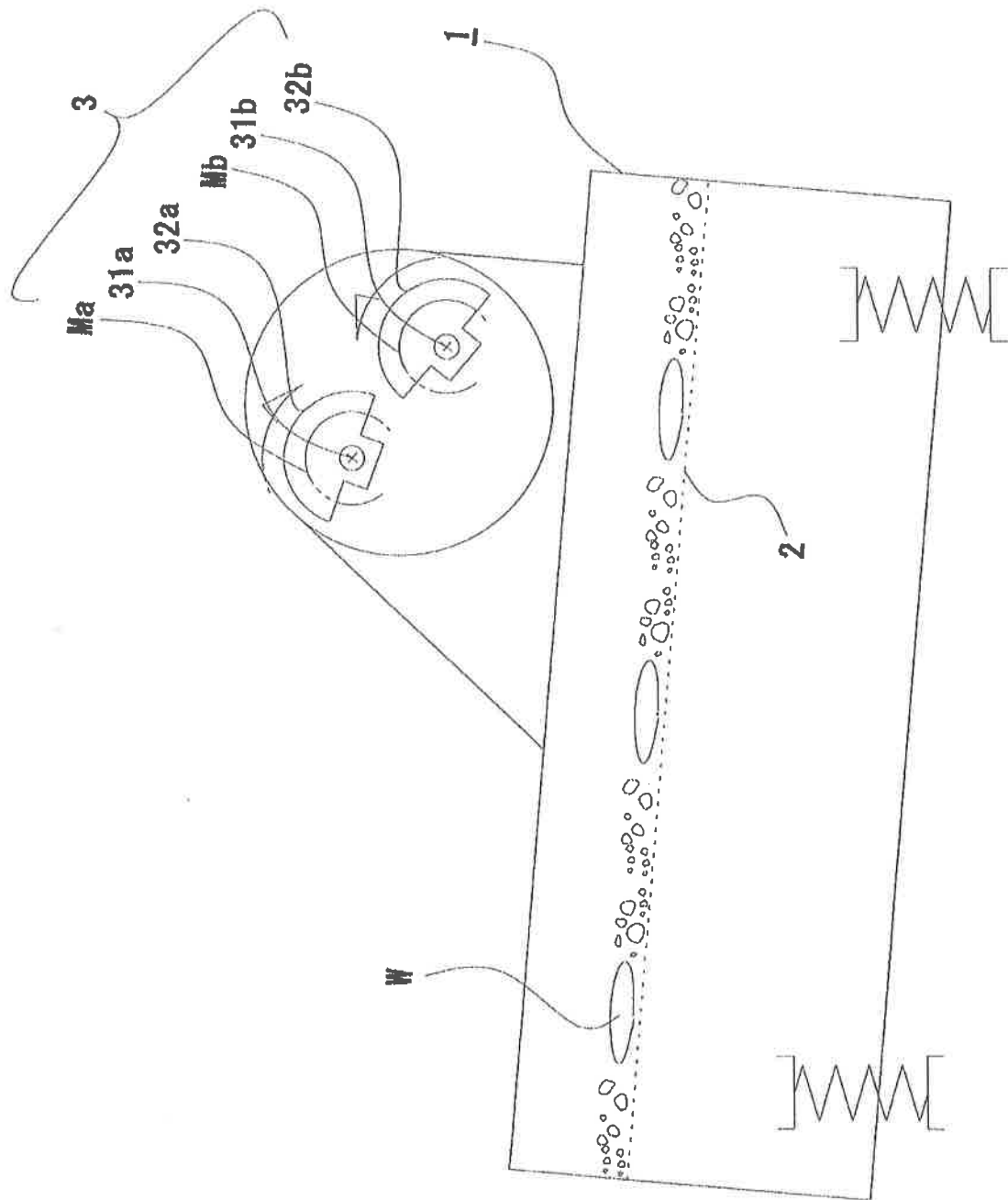


FIG. 2

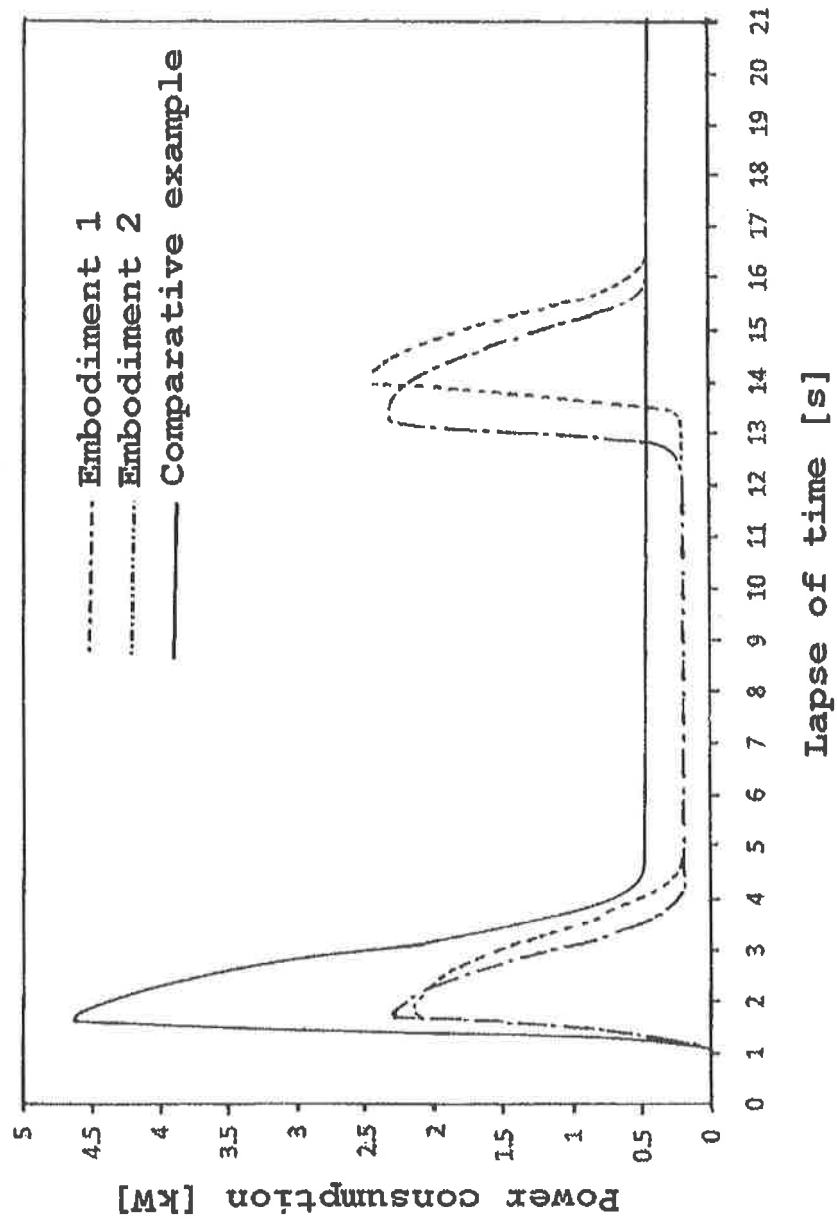


FIG. 3

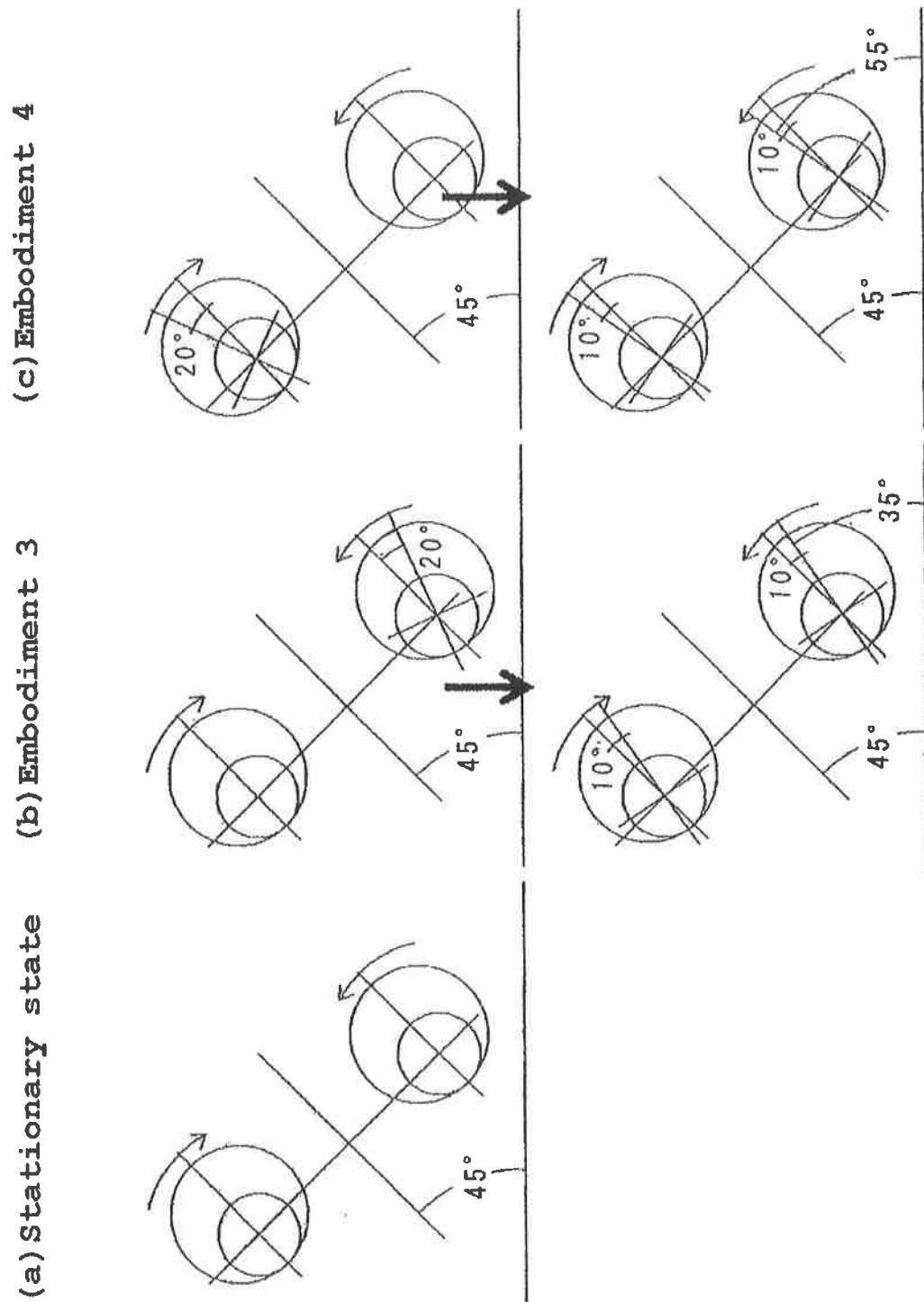


FIG. 4

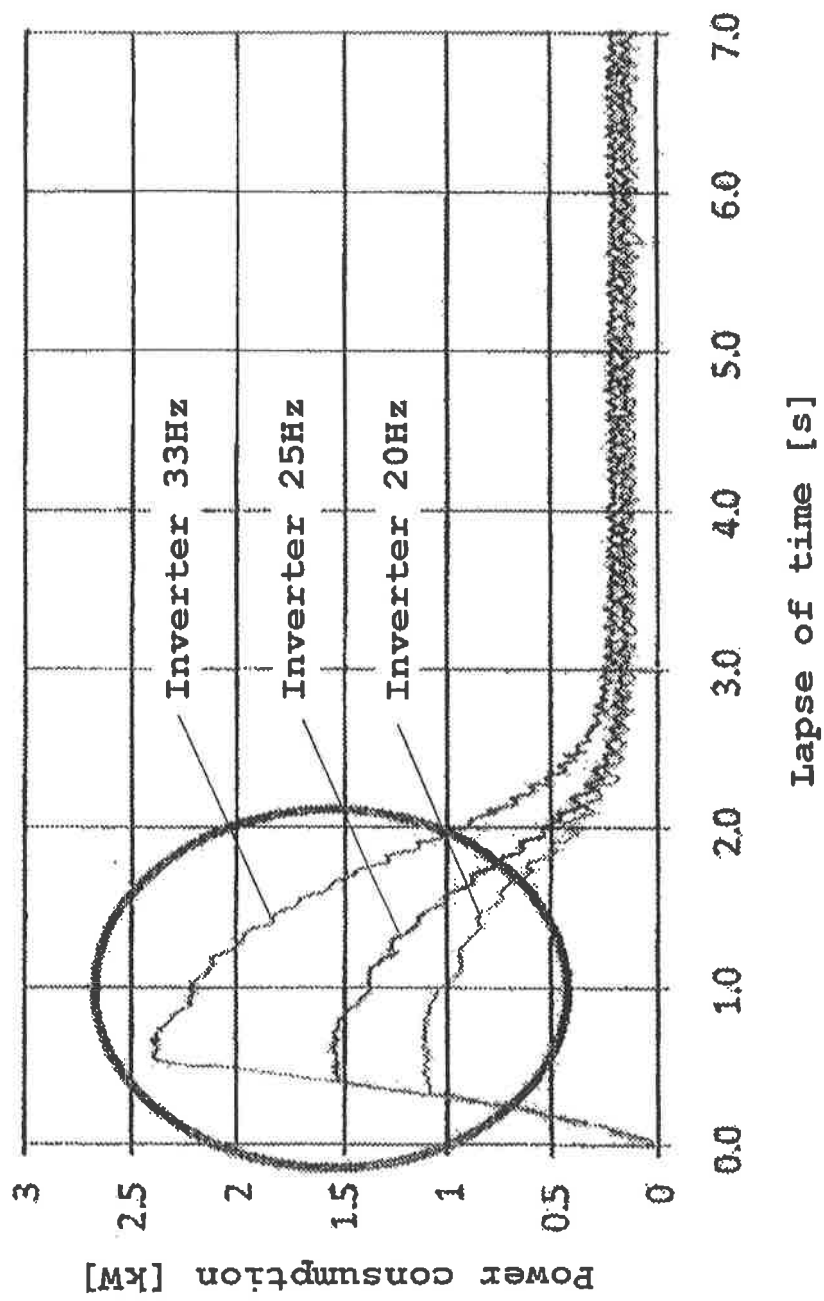


FIG. 5

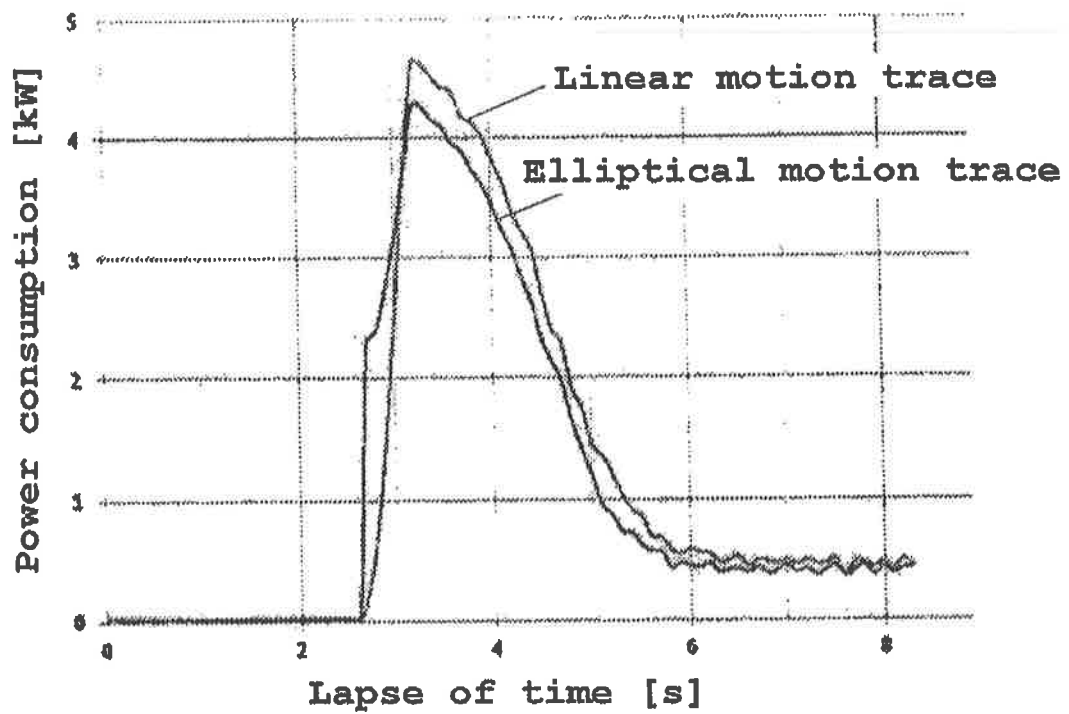


FIG. 6 (a-1)
Eccentric spindle 1

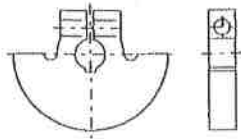


FIG. 6 (a-2)
Eccentric spindle 2

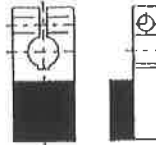


FIG. 6 (a-3)
Eccentric spindle 3

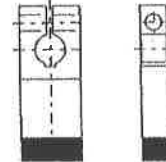
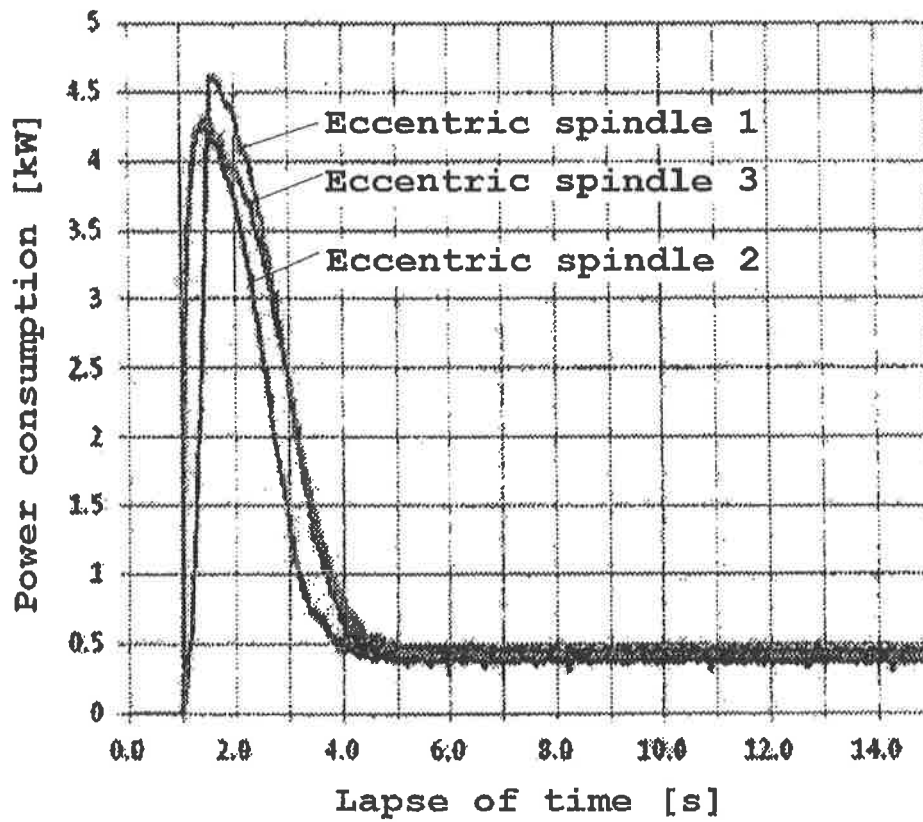


FIG. 6 (b)



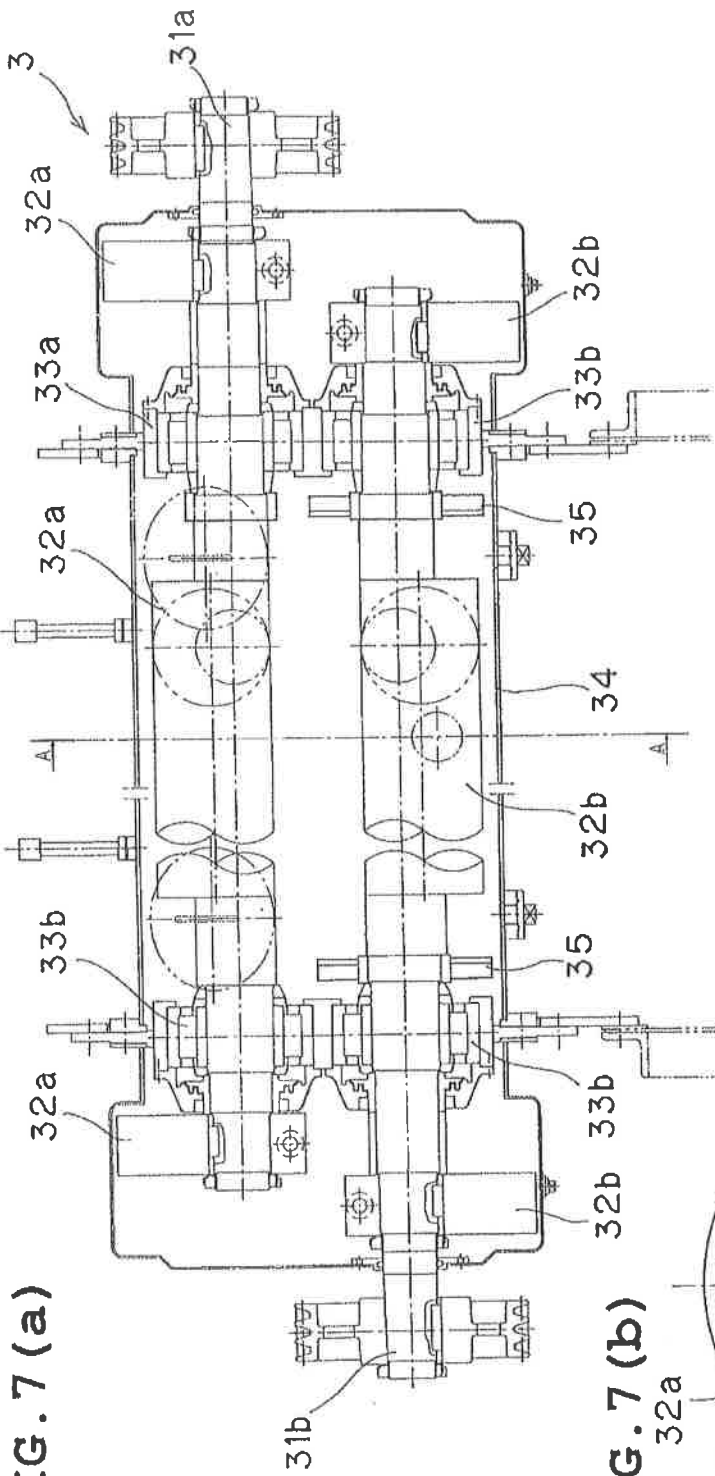


FIG. 7(a)

FIG. 7(b)

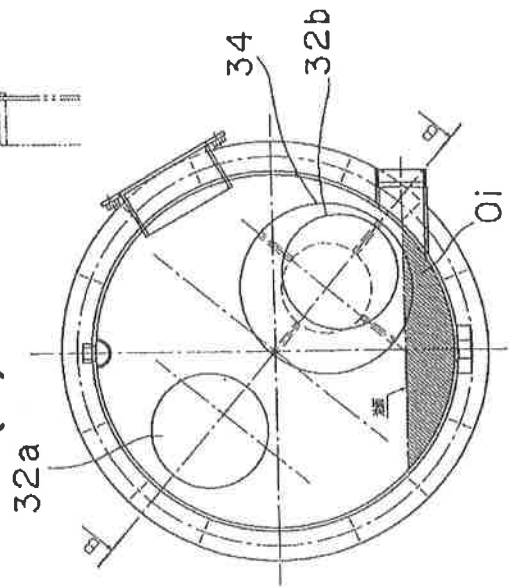


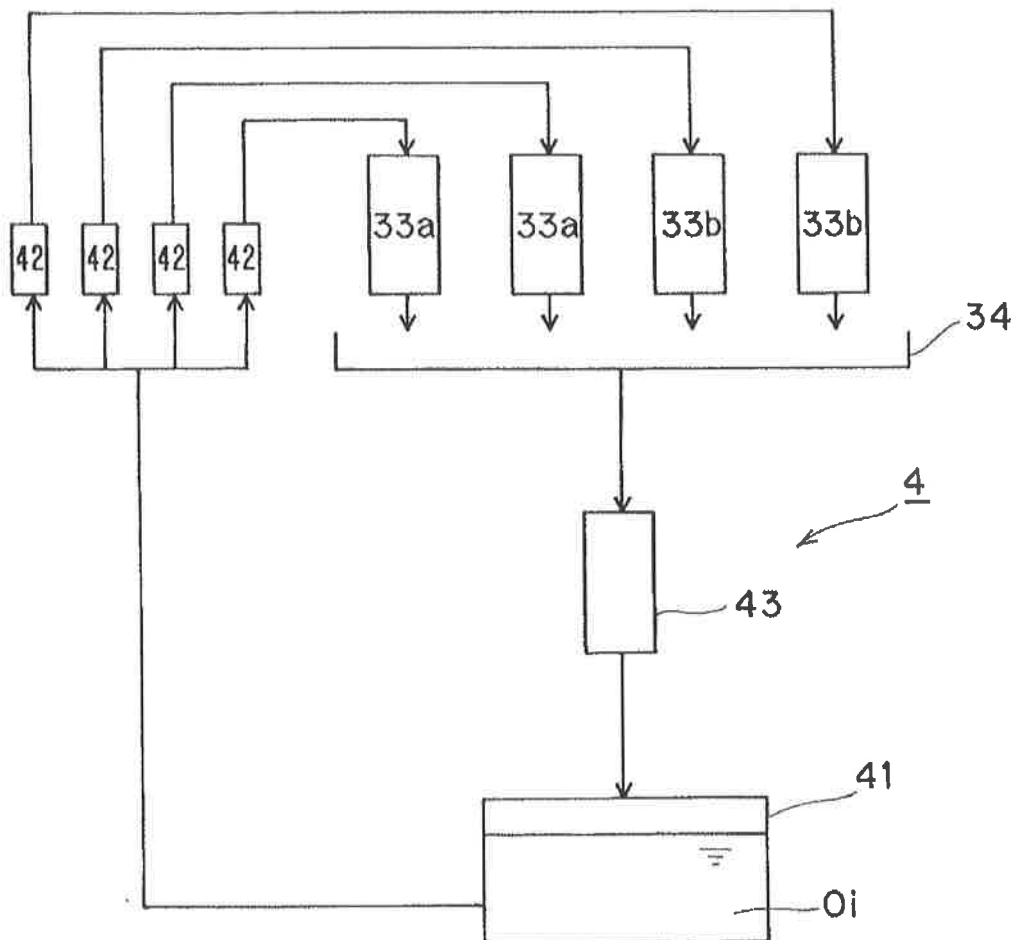
FIG. 8

FIG. 9(c)

Strokes of vibratory pump
(1 cycle)

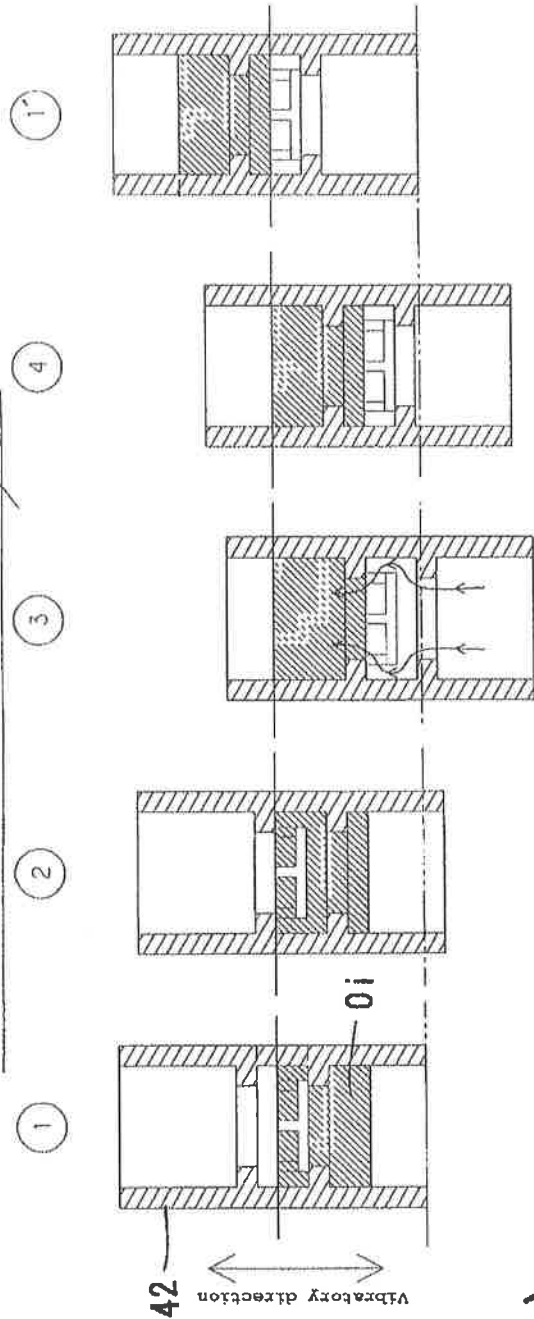


FIG. 9(a)

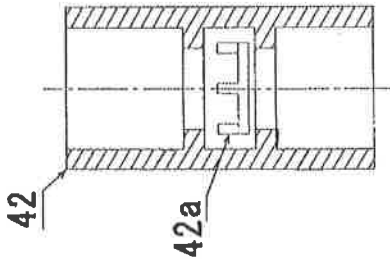


FIG. 9(b-1)

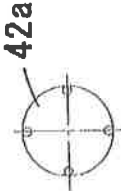


FIG. 9(b-2)



FIG. 10

