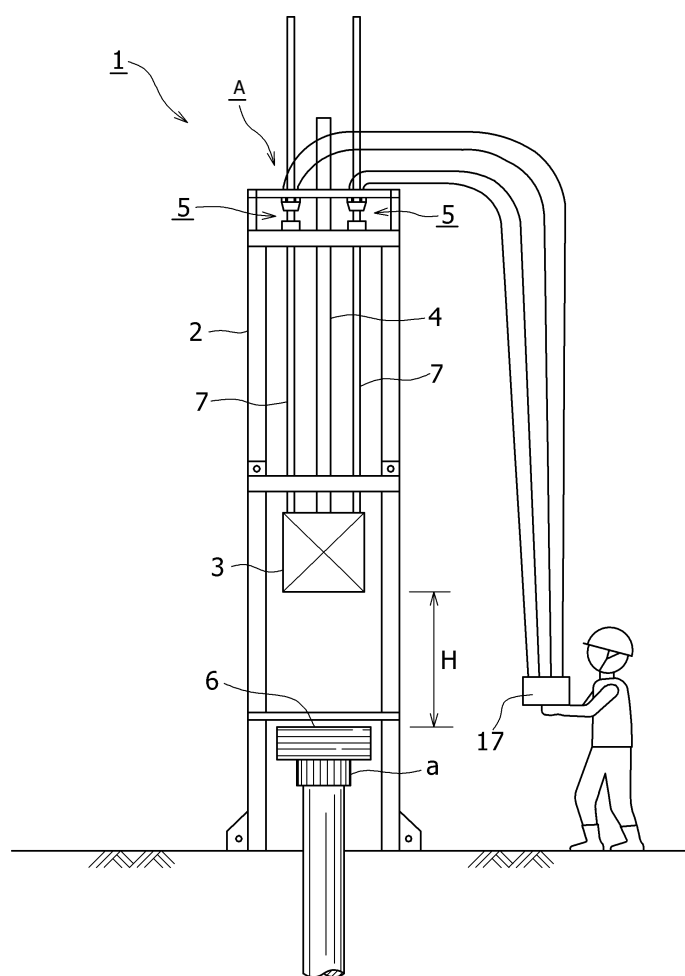
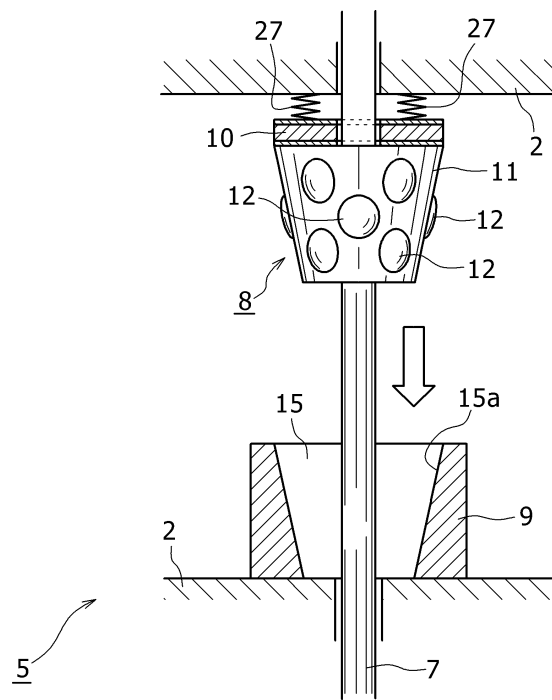


FIG. 1

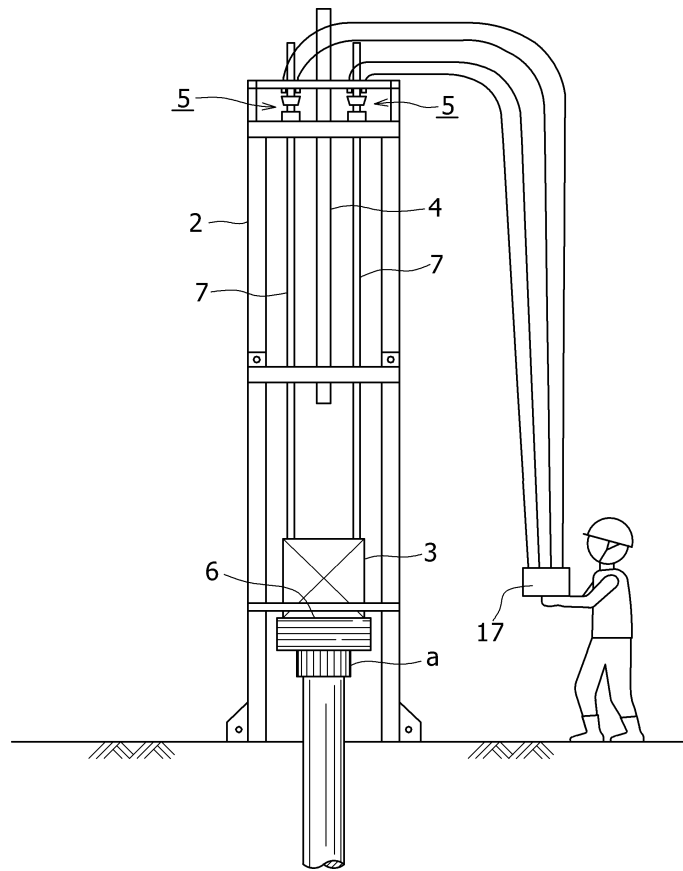


STATE IN WHICH WEIGHT IS LIFTED

F I G . 2

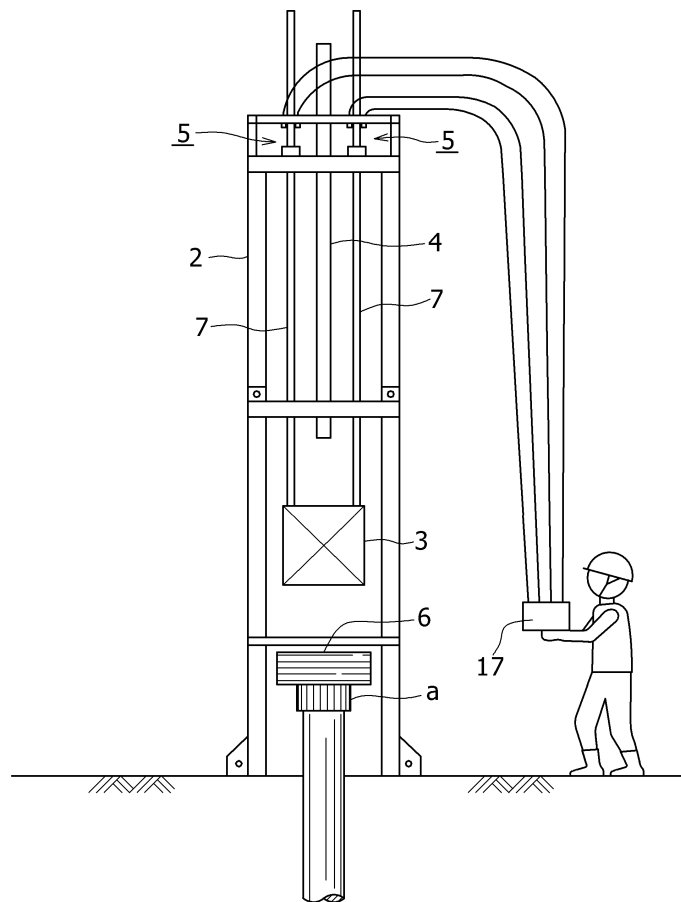


F I G . 3



RECTIFIER SWITCH IS TURNED OFF AT MOMENT OF
COLLISION OF WEIGHT AGAINST PILE ONTO
WHICH WEIGHT HAS MADE TO FREELY FALL

F I G . 4



STATE IN WHICH WEIGHT-CATCHING RODS ARE
CAUGHT WITH WEIGHT CATCHING DEVICES IN
OCCURRENCE OF BOUNCING OF WEIGHT UP TO
MAXIMUM HEIGHT AFTER COLLISION AGAINST PILE

FIG. 5

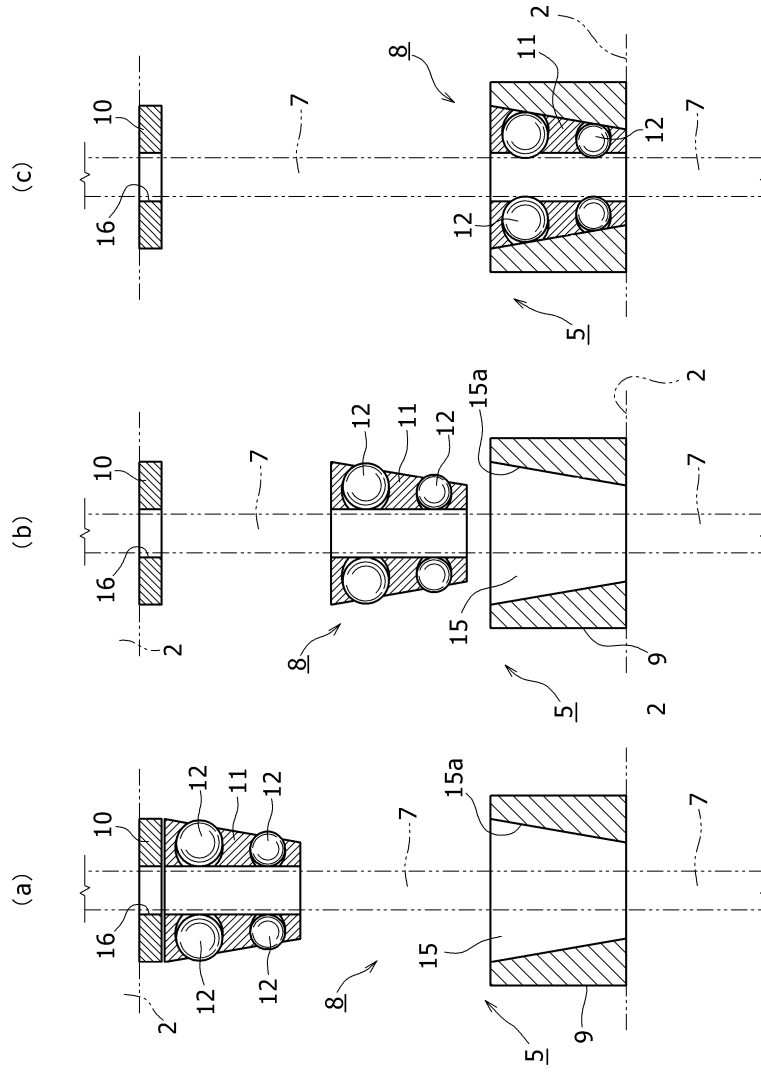


FIG. 6

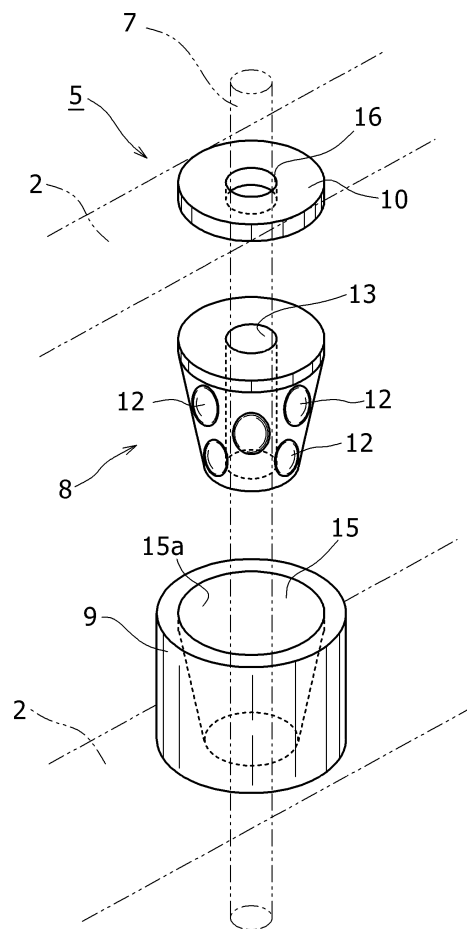


FIG. 7

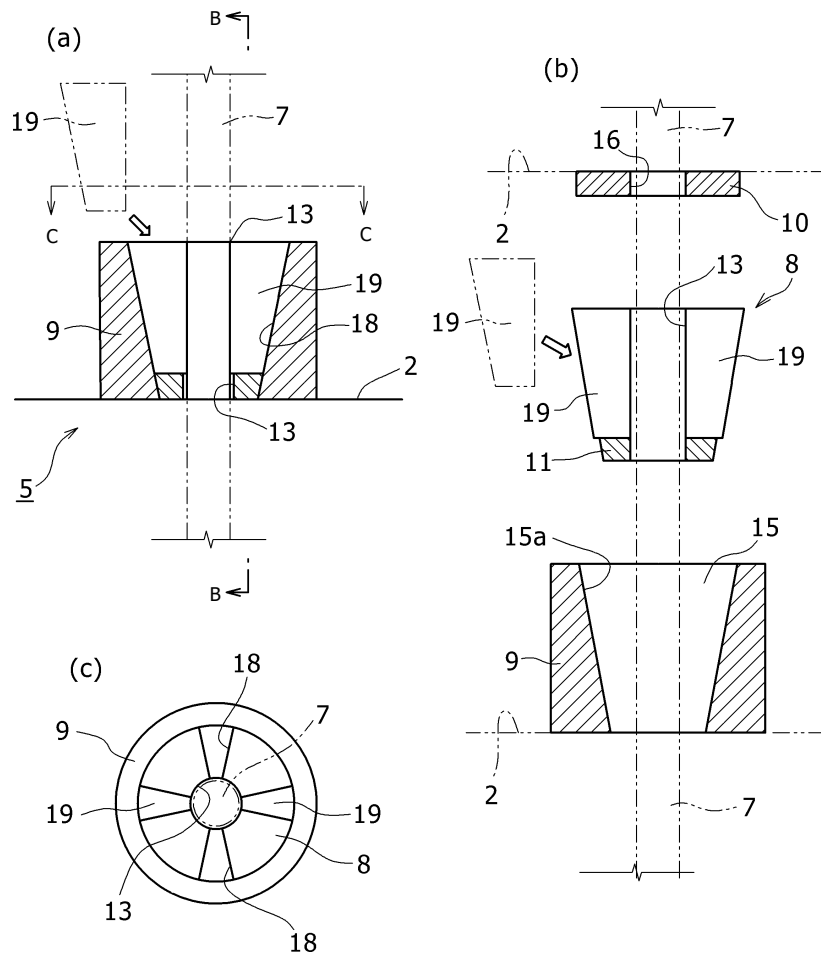


FIG. 8

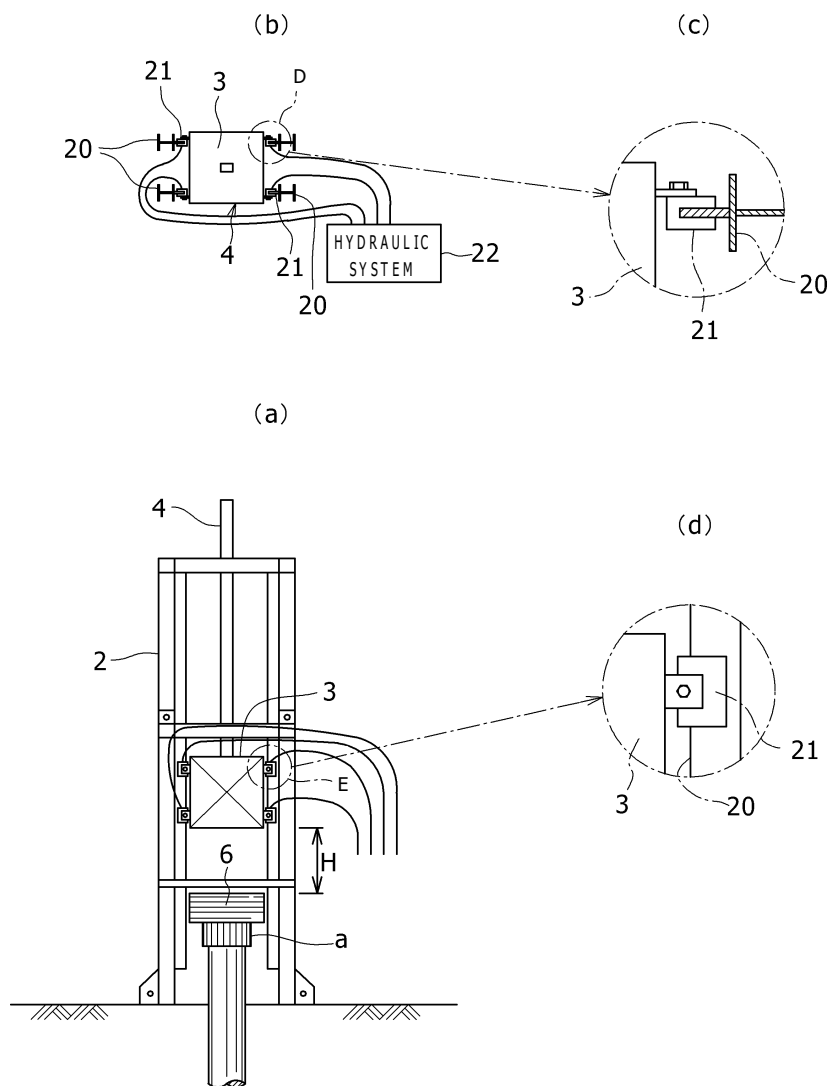
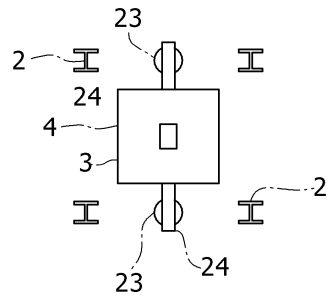


FIG. 9

(a)



(b)

