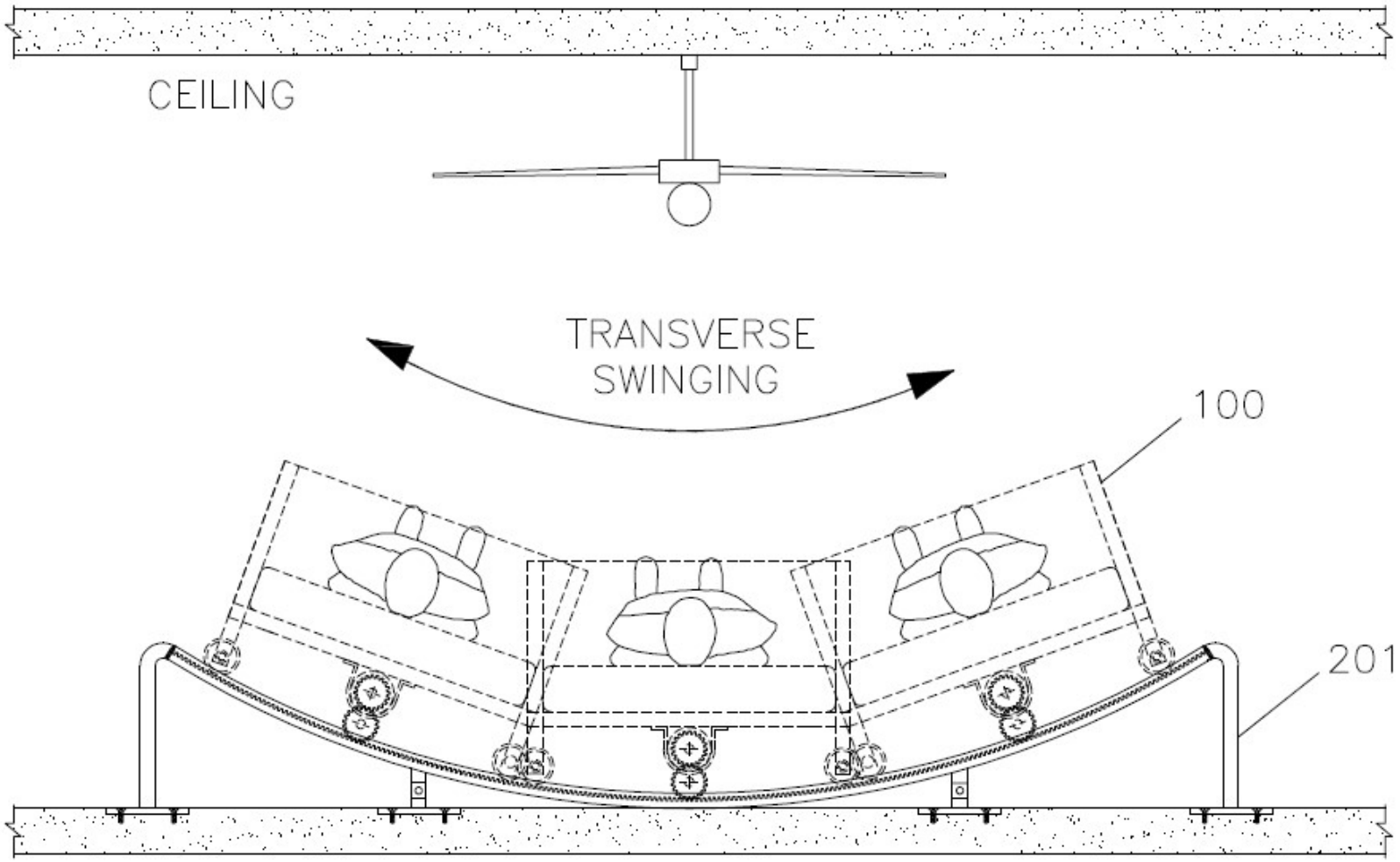
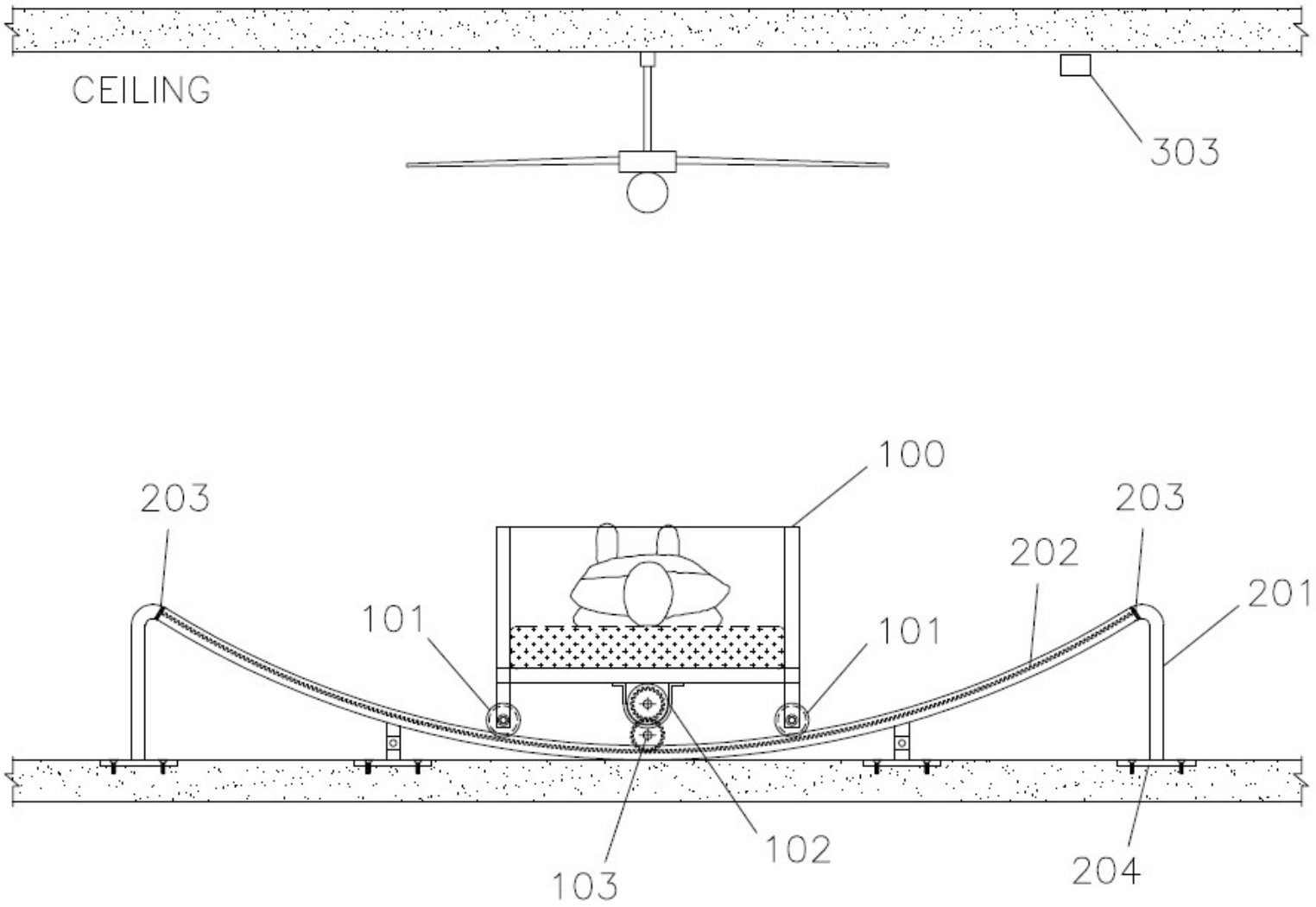
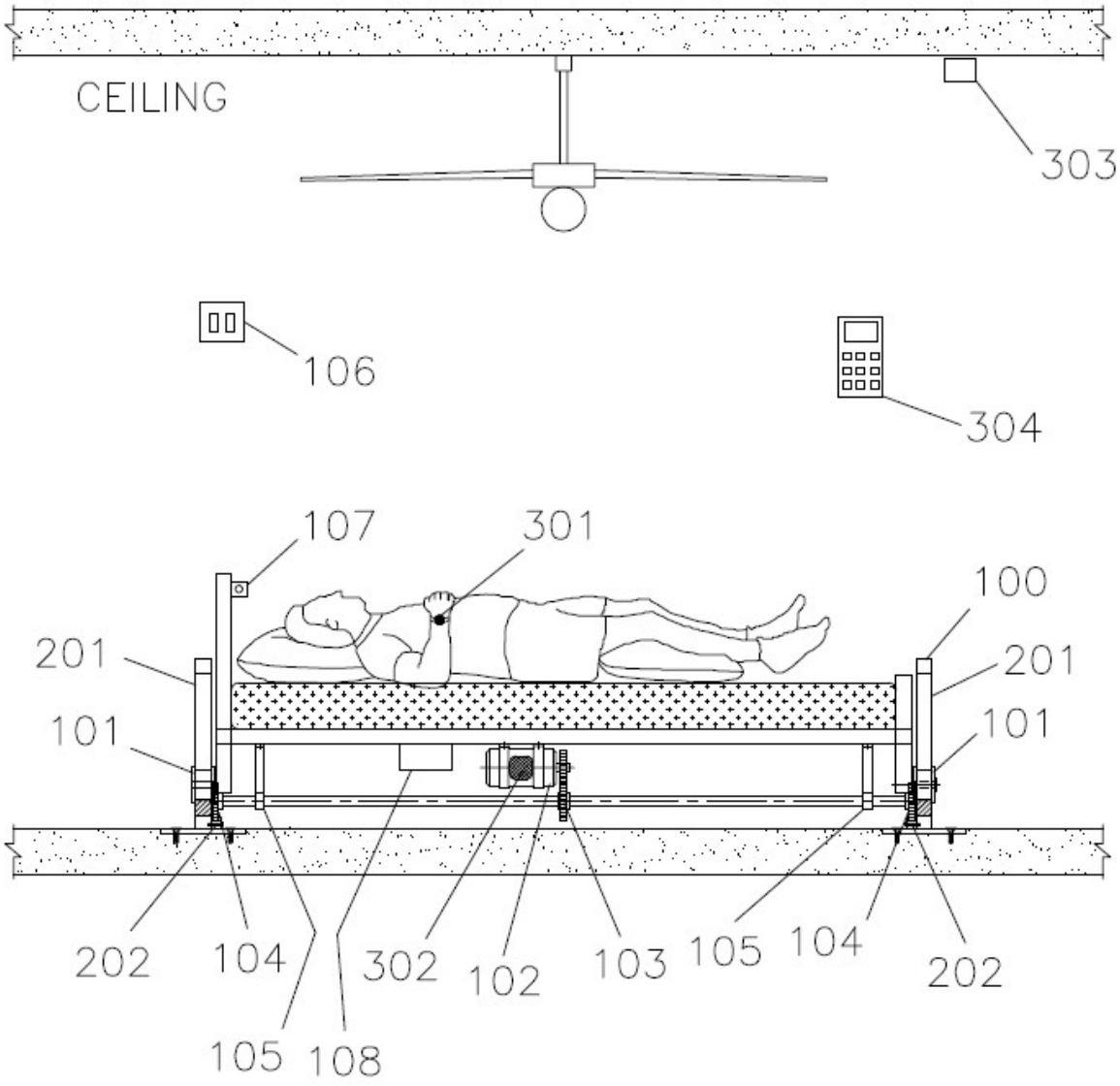


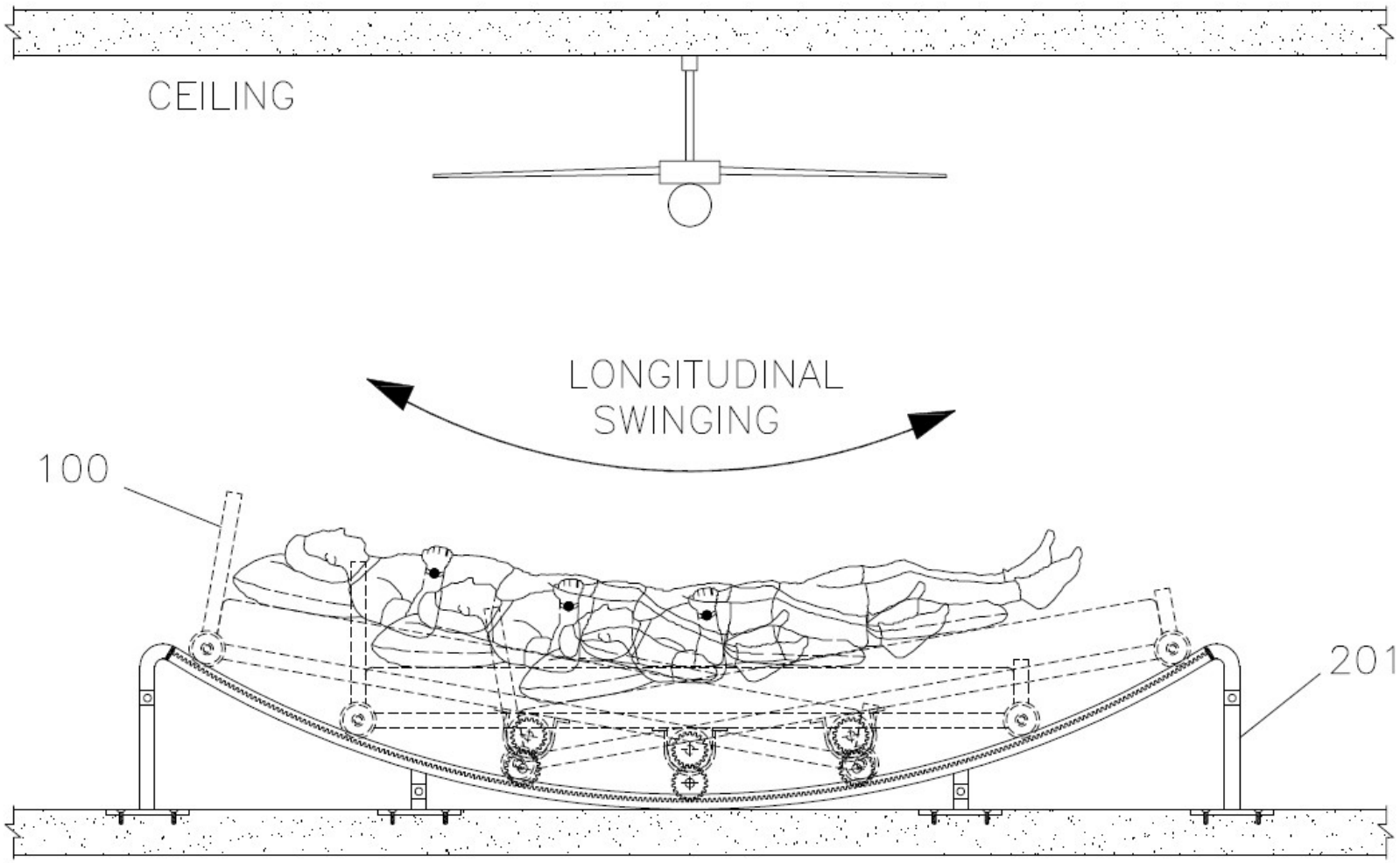
FIGURE—1



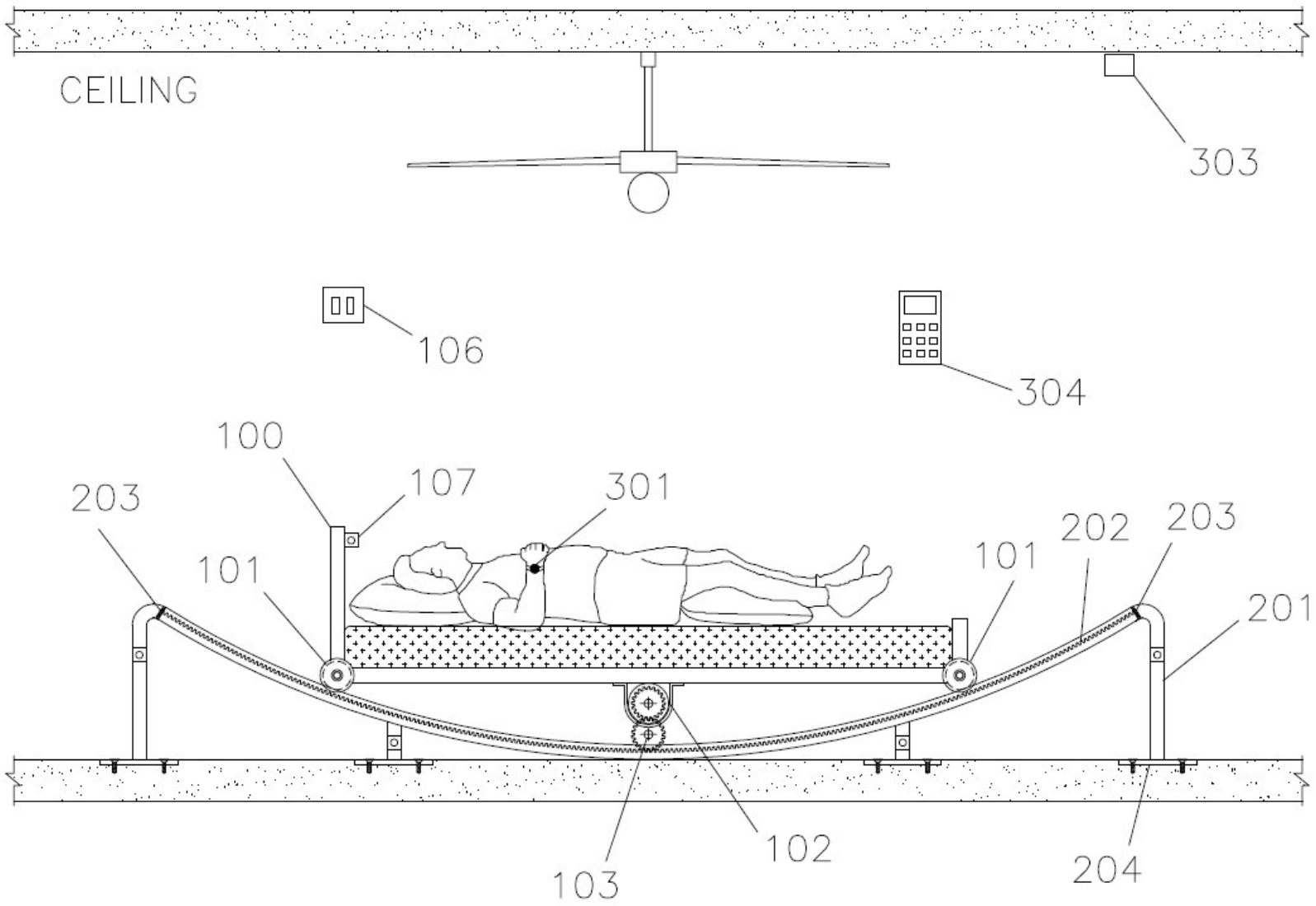
FIGURE–2


CEILING
303
106
304
107
301
100
201
201
101
101
202
104
302
102
103
105
104
202
105
108

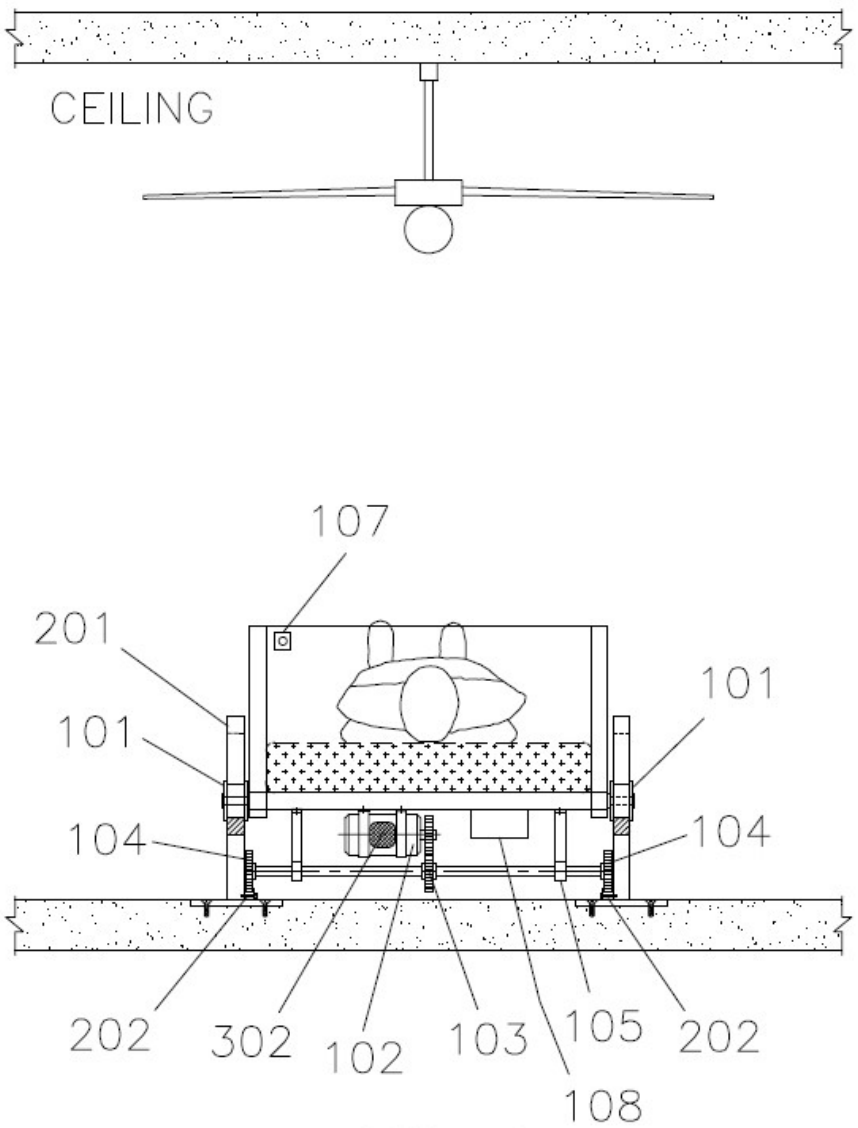
FIGURE–3



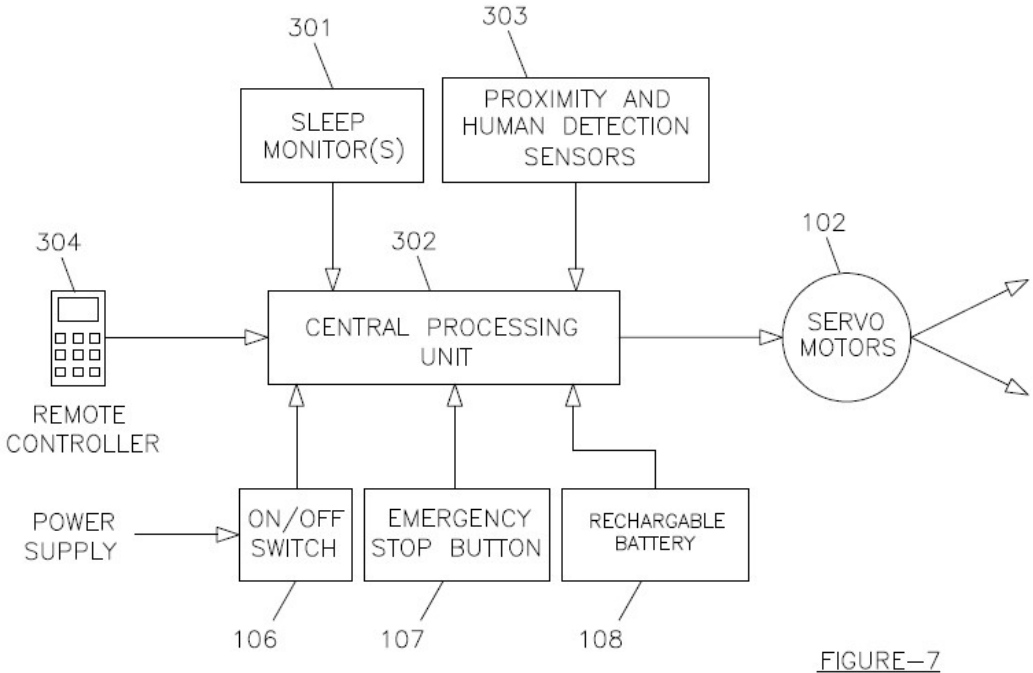
FIGURE—4


CEILING
303
106
304
100
107
301
203
101
101
202
203
201
103
102
204

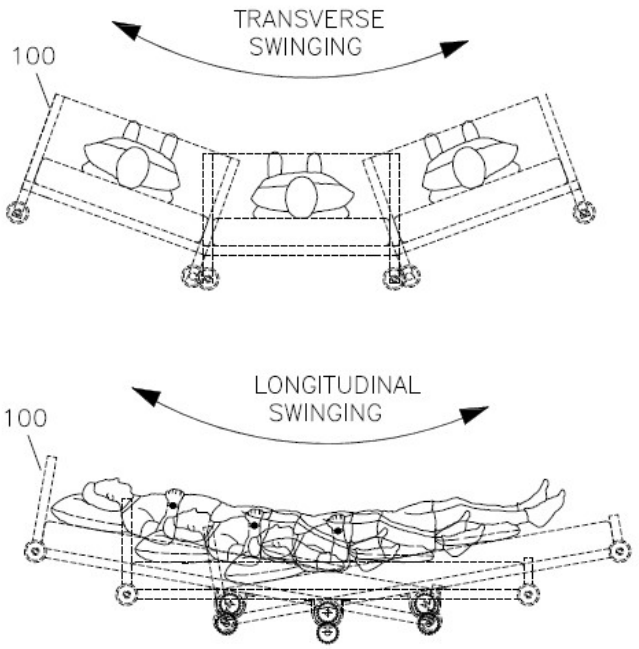
FIGURE–5



FIGURE–6


301
303
SLEEP MONITOR(S)
PROXIMITY AND HUMAN DETECTION SENSORS
304
302
102
CENTRAL PROCESSING UNIT
SERVO MOTORS
REMOTE CONTROLLER
POWER SUPPLY
ON/OFF SWITCH
EMERGENCY STOP BUTTON
RECHARGABLE BATTERY
106
107
108

FIGURE–7


TRANSVERSE SWINGING
100
LONGITUDINAL SWINGING
100