

1 / 37

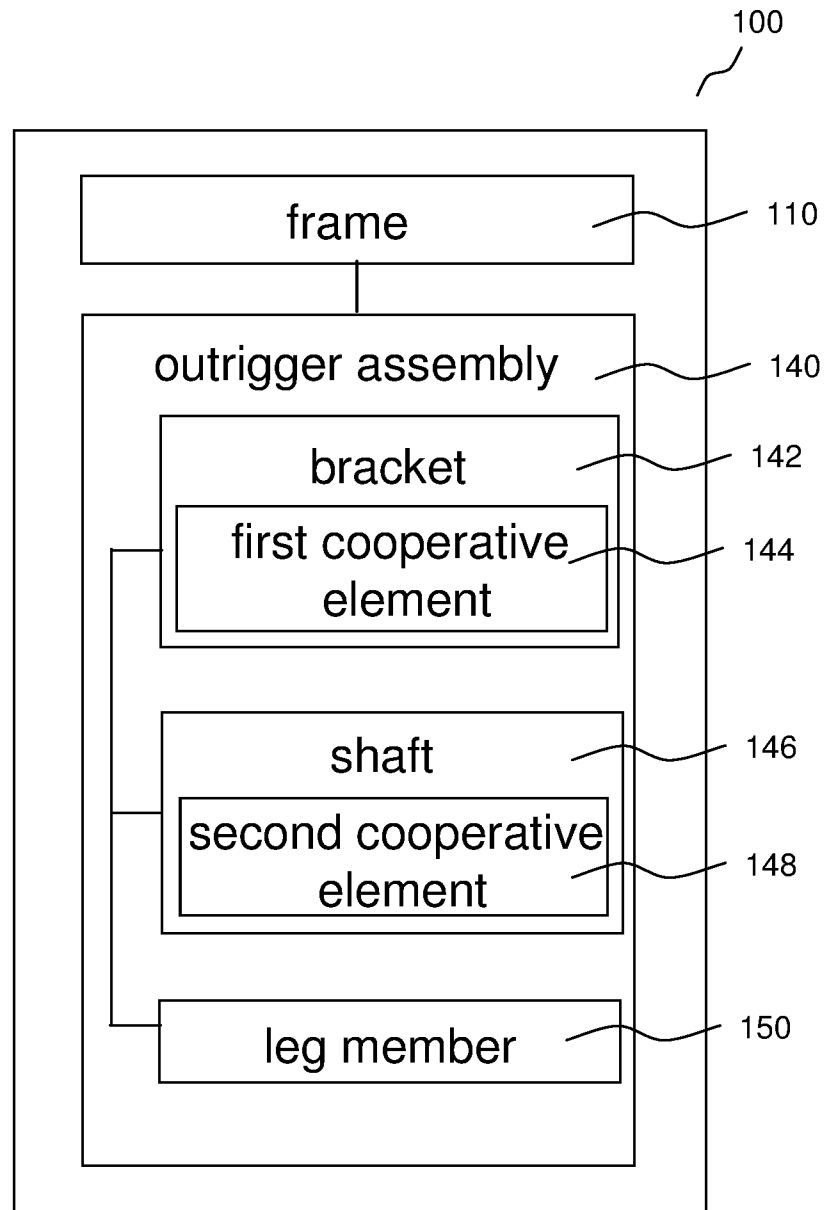


FIG. 1A

2 / 37

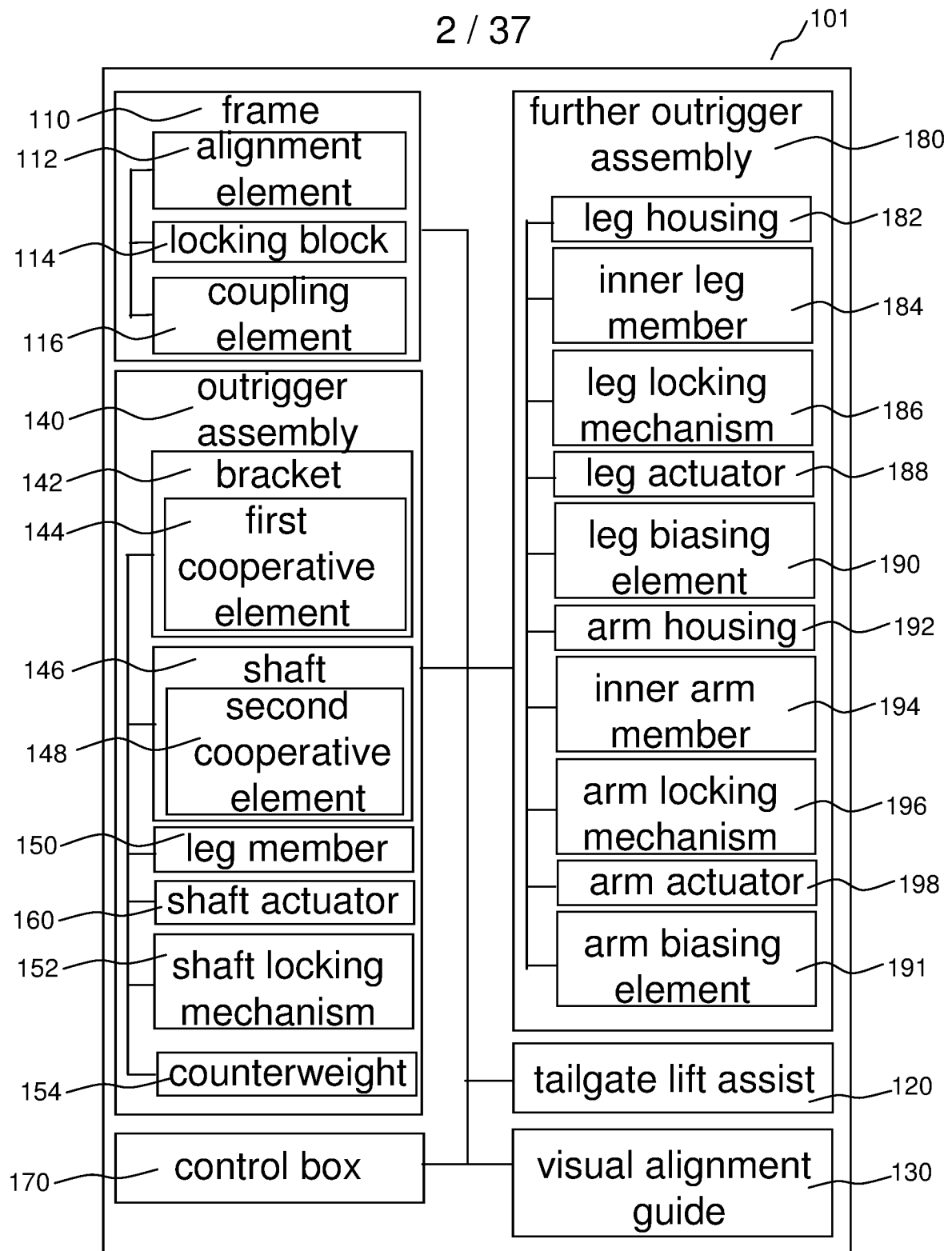


FIG. 1B

3 / 37

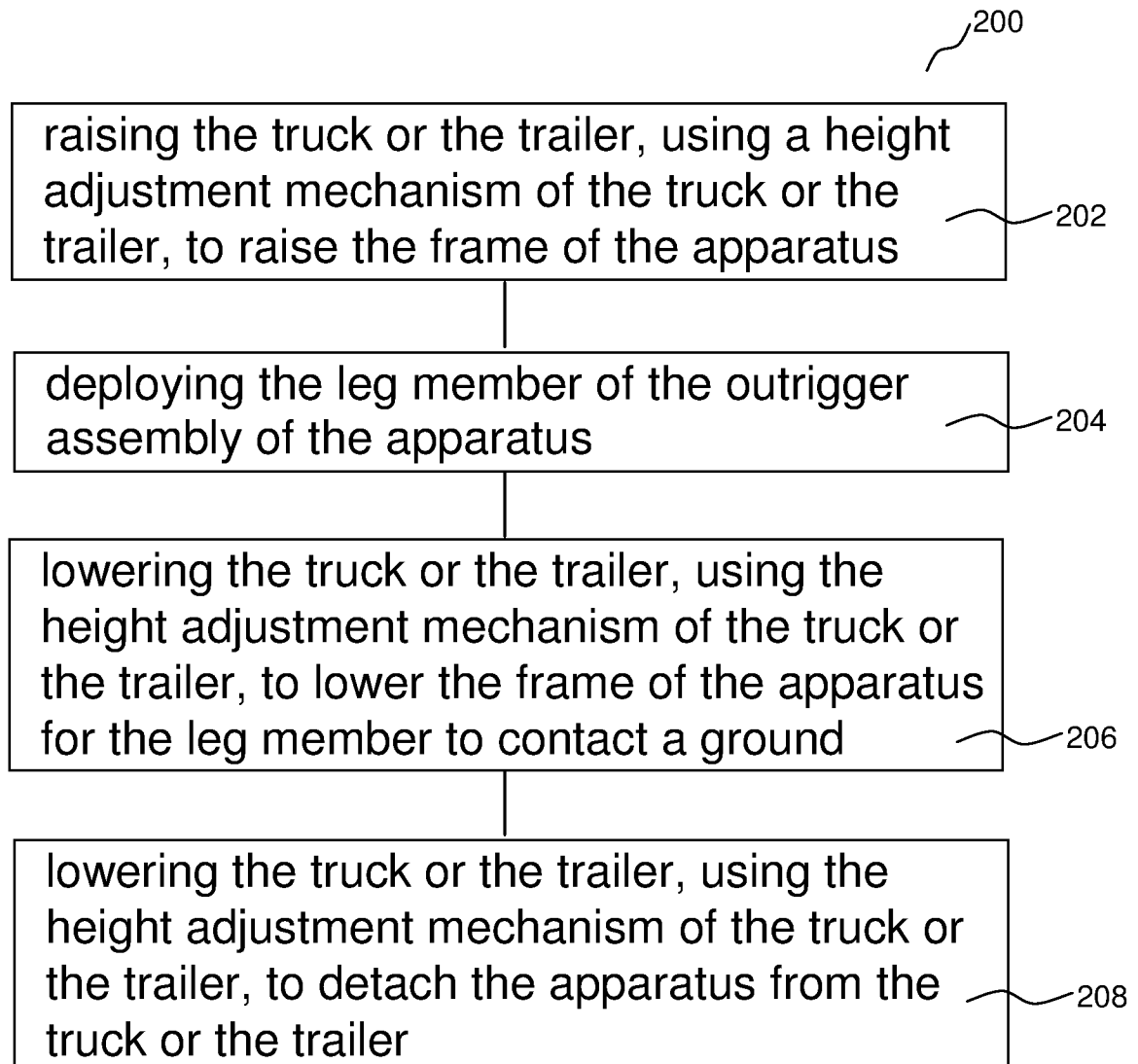


FIG. 2

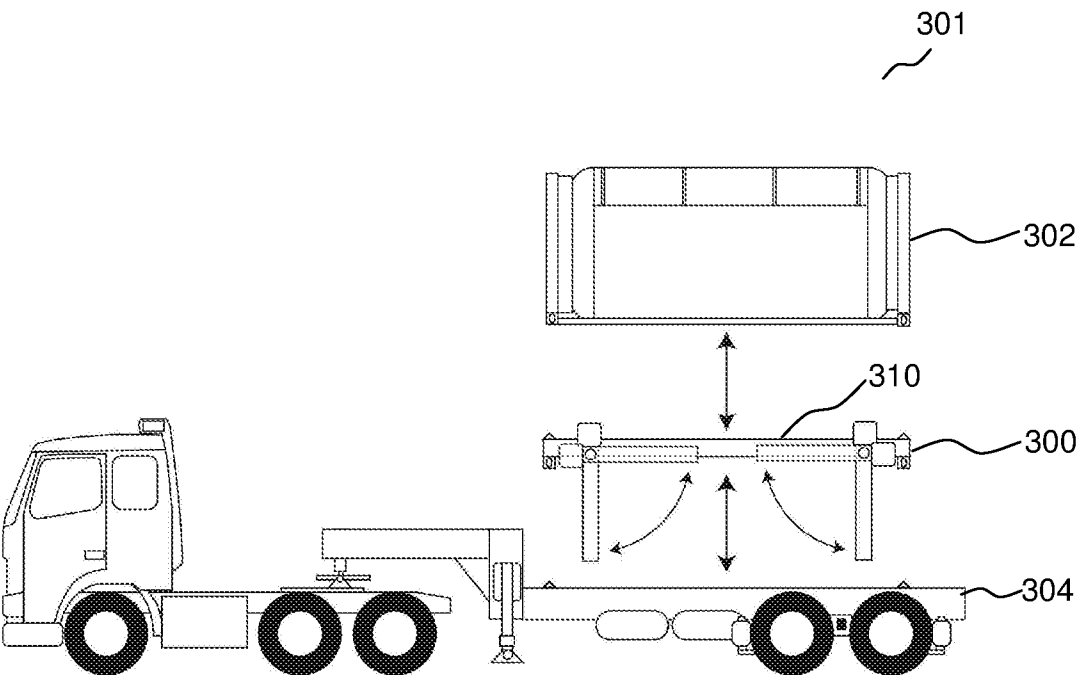


FIG. 3

5 / 37

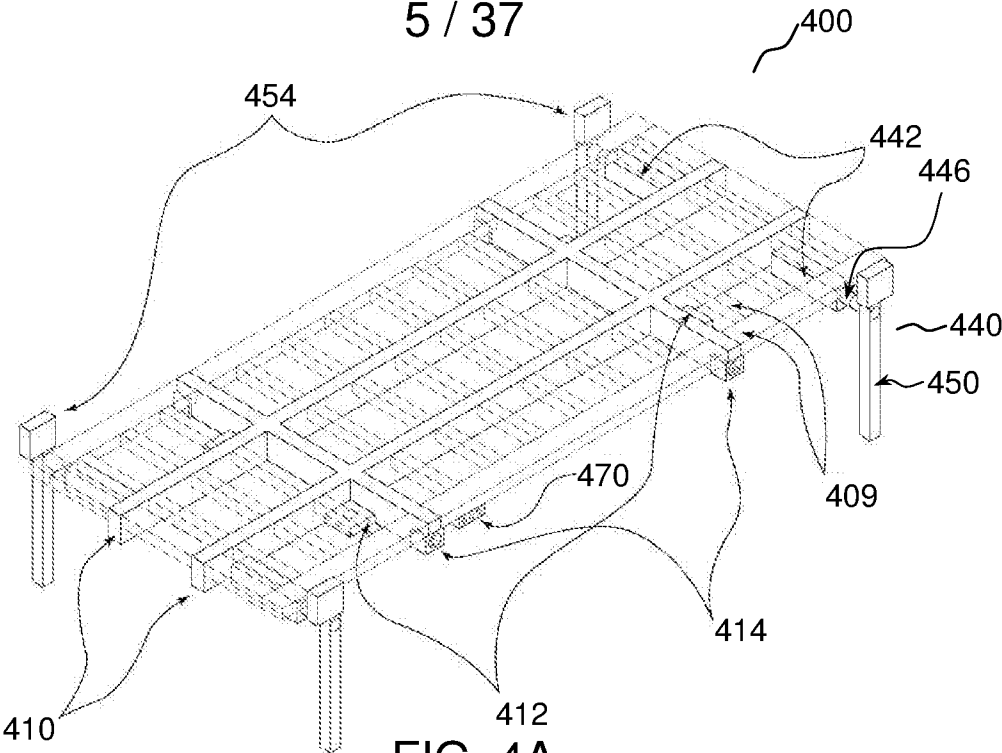


FIG. 4A

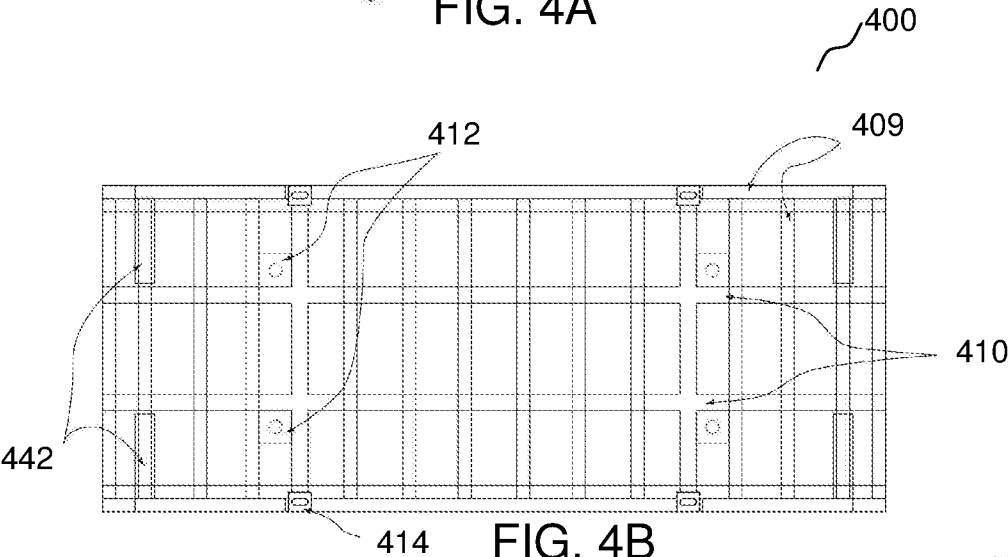


FIG. 4B

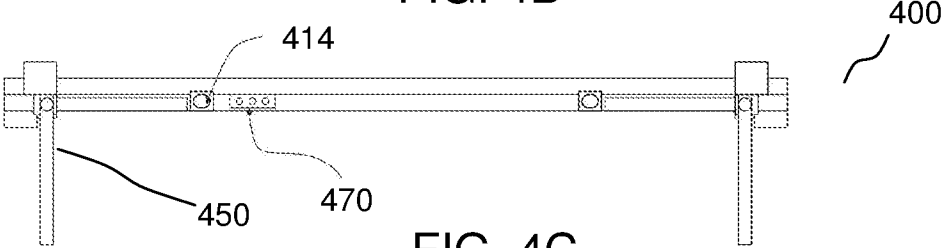


FIG. 4C

6 / 37

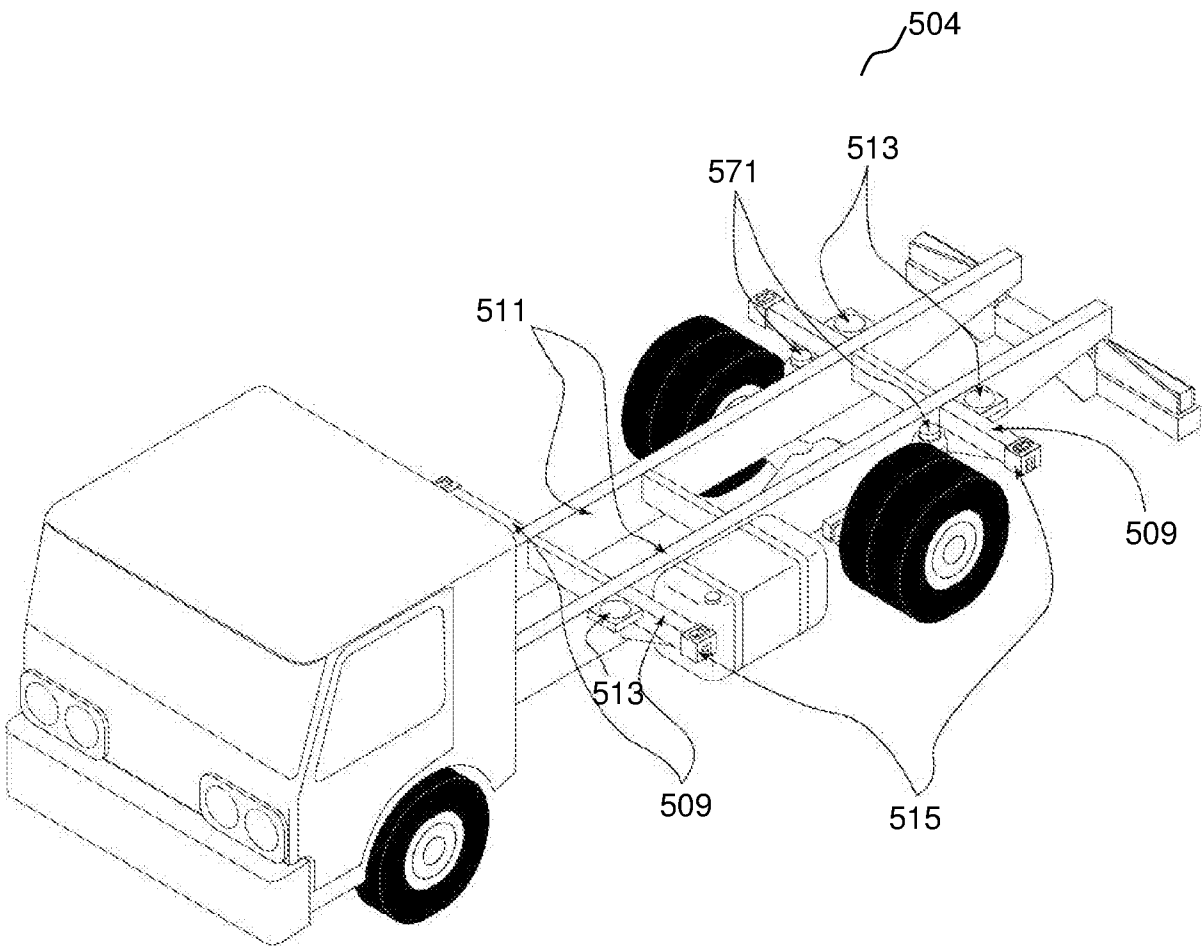


FIG. 5

7 / 37

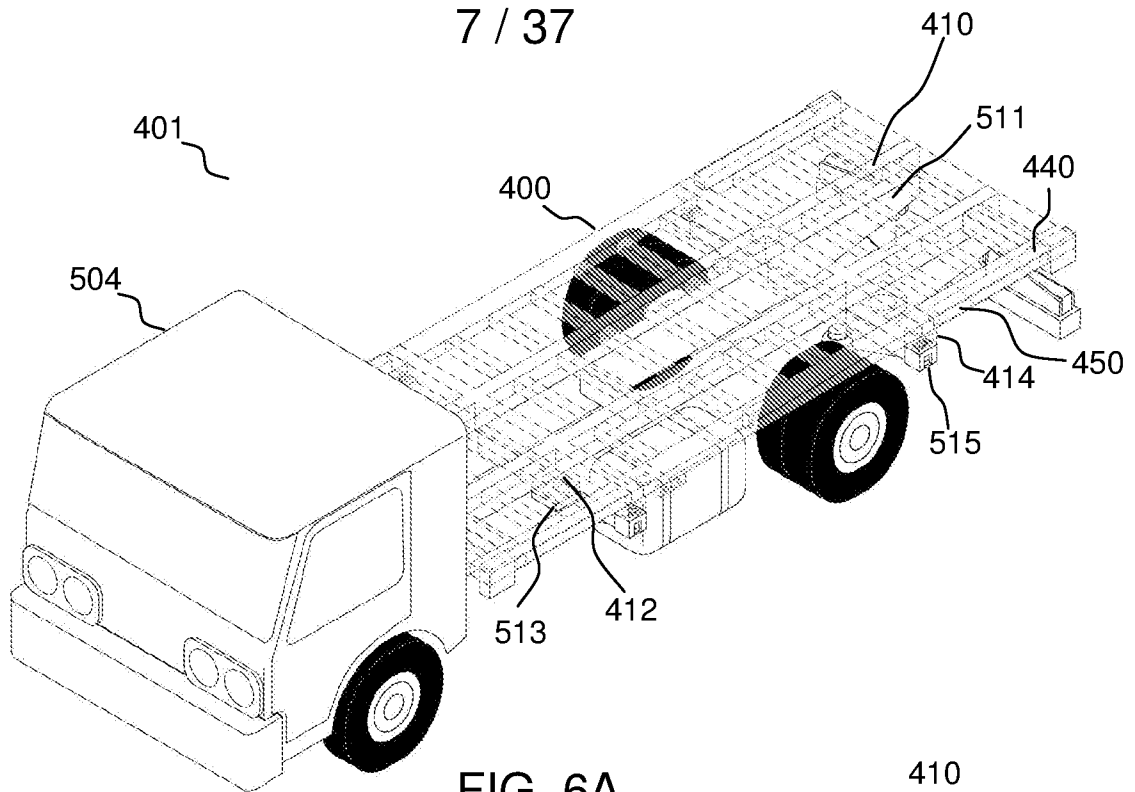


FIG. 6A

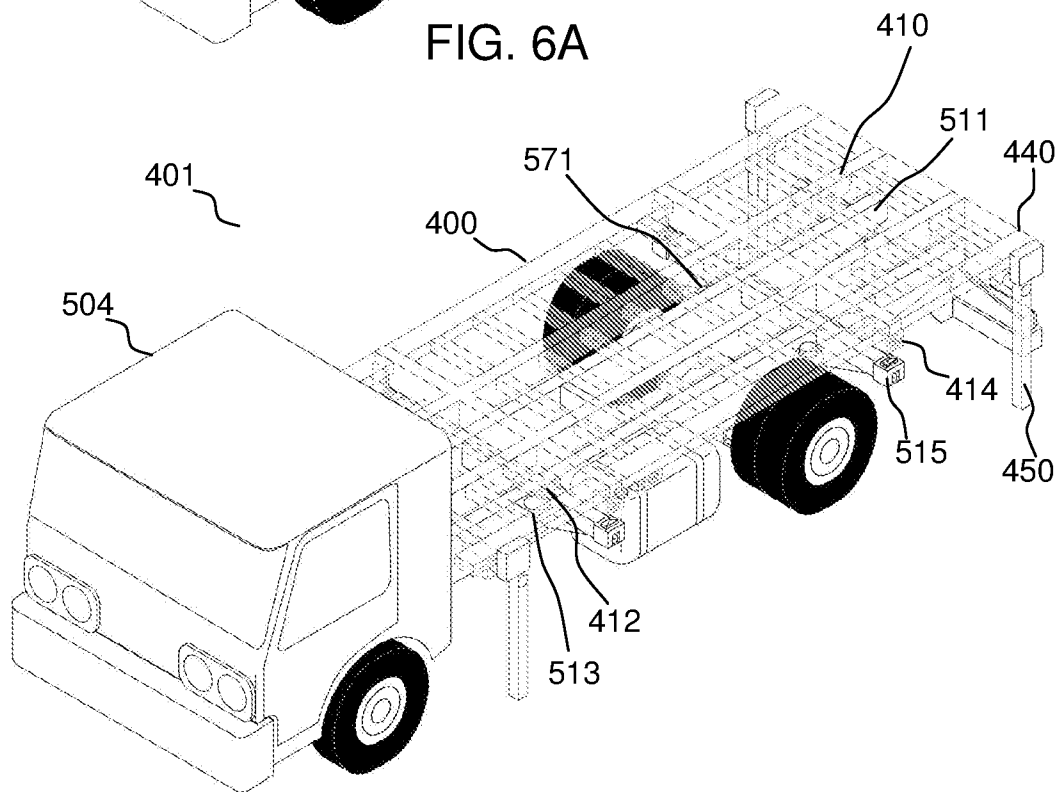
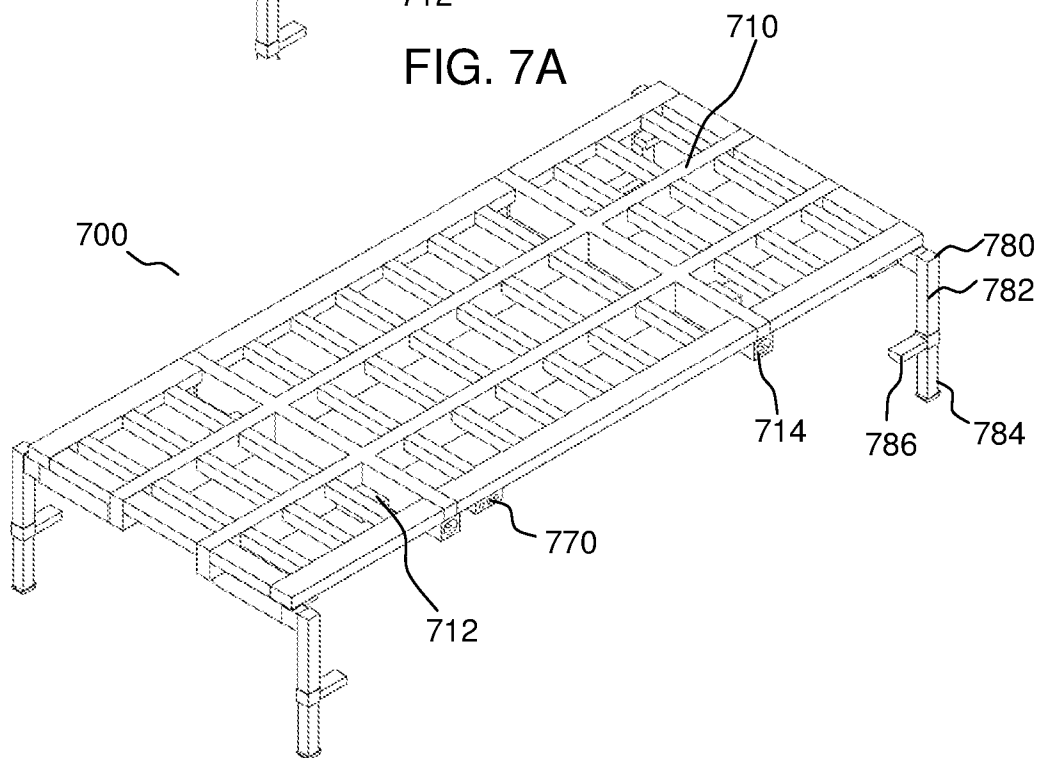
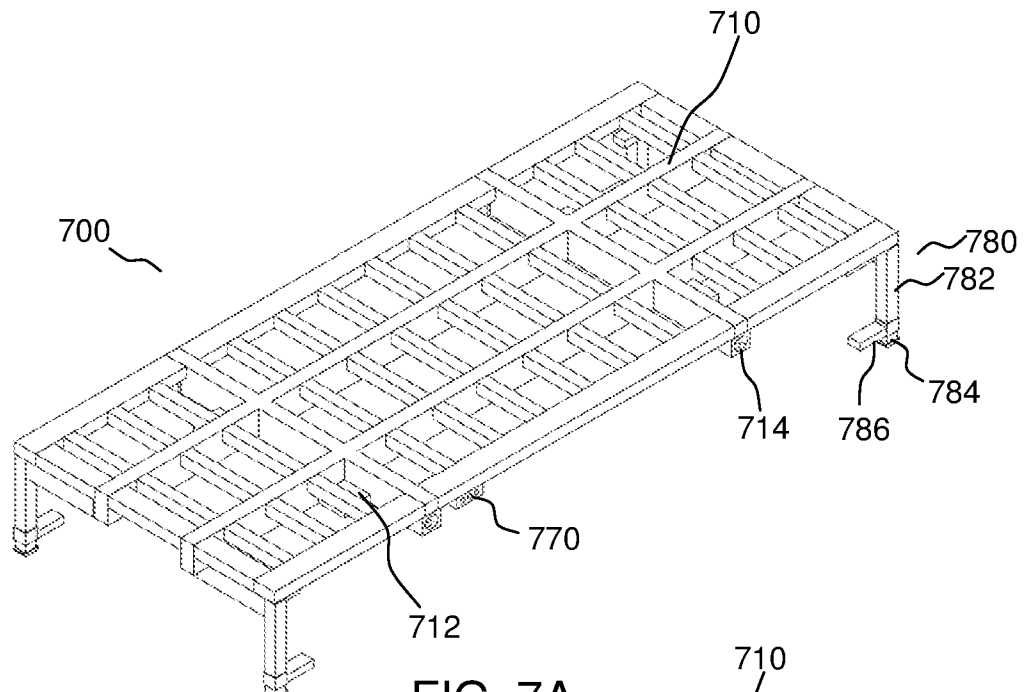


FIG. 6B

8 / 37



9 / 37

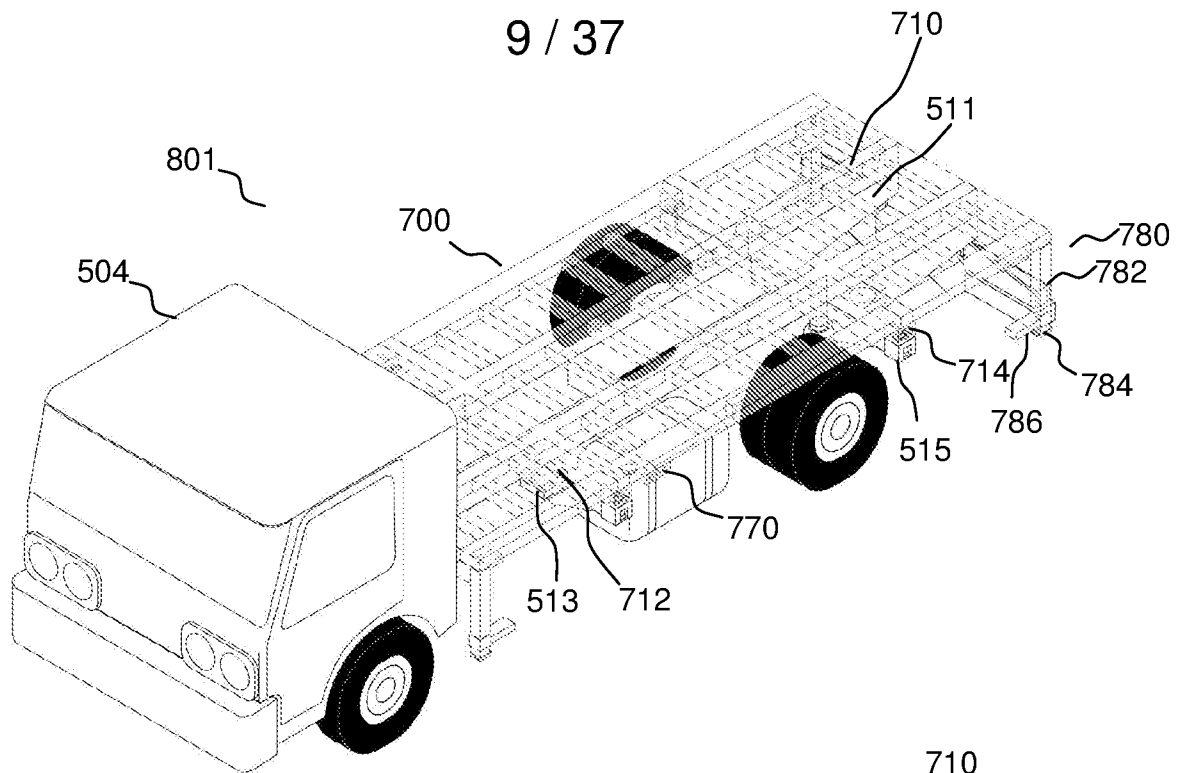


FIG. 8A

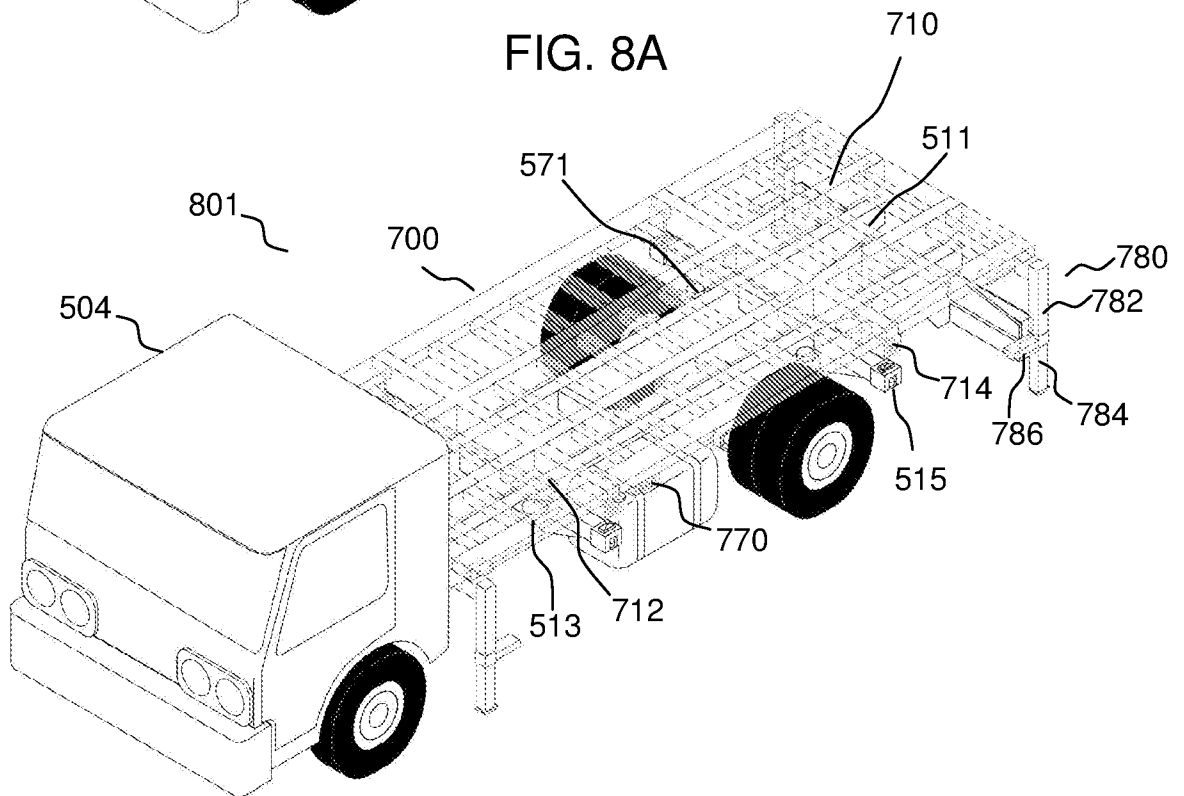


FIG. 8B

10 / 37

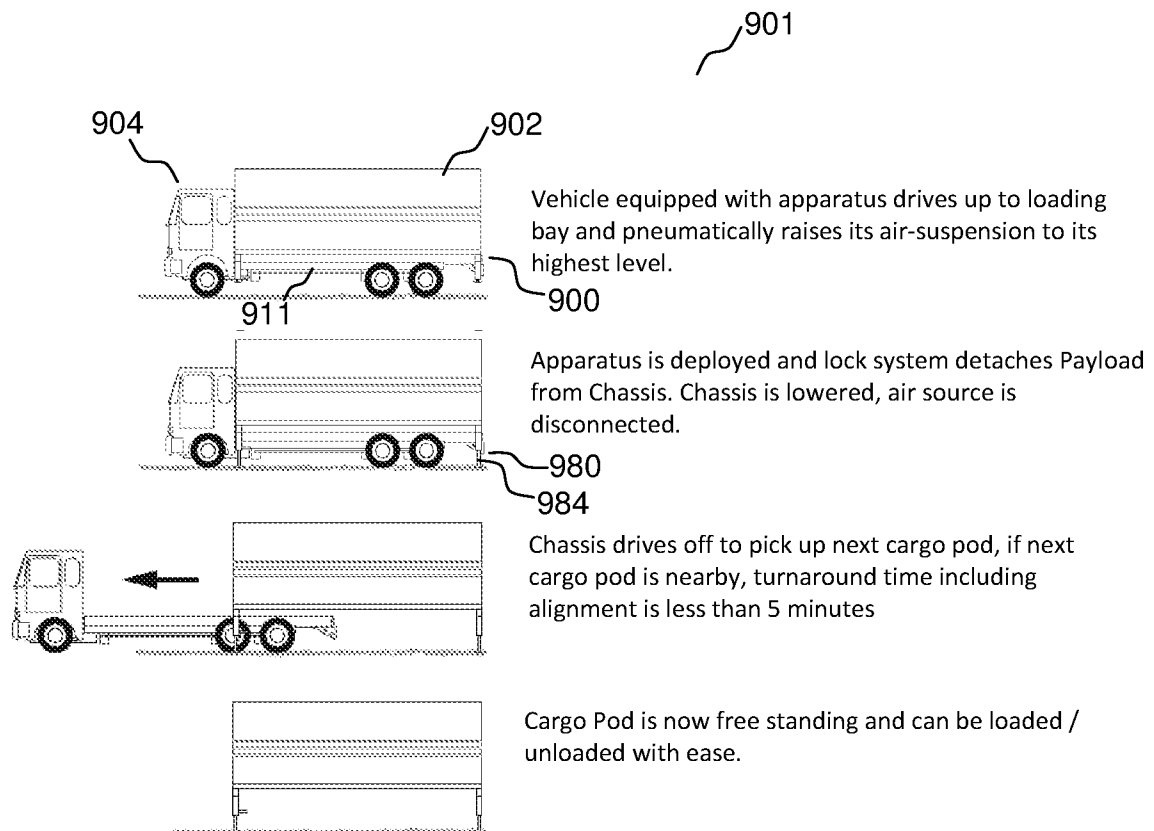


FIG. 9

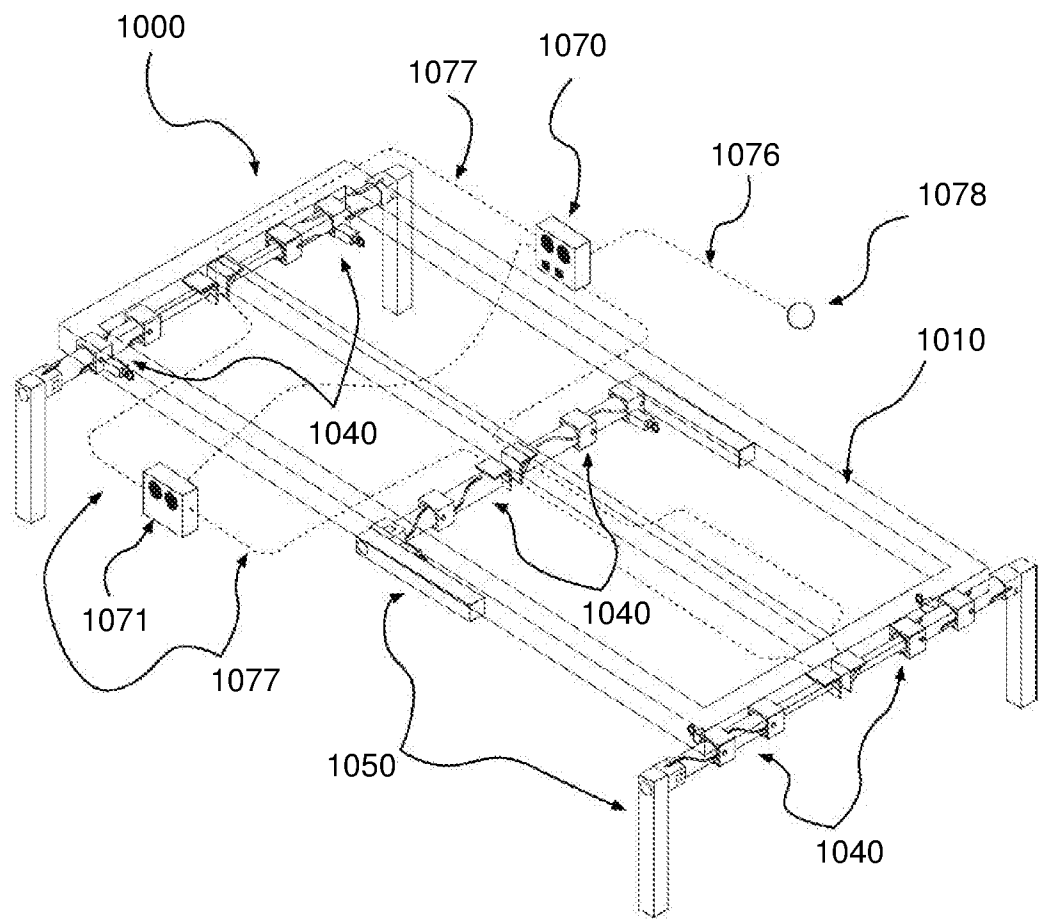


FIG. 10

12 / 37

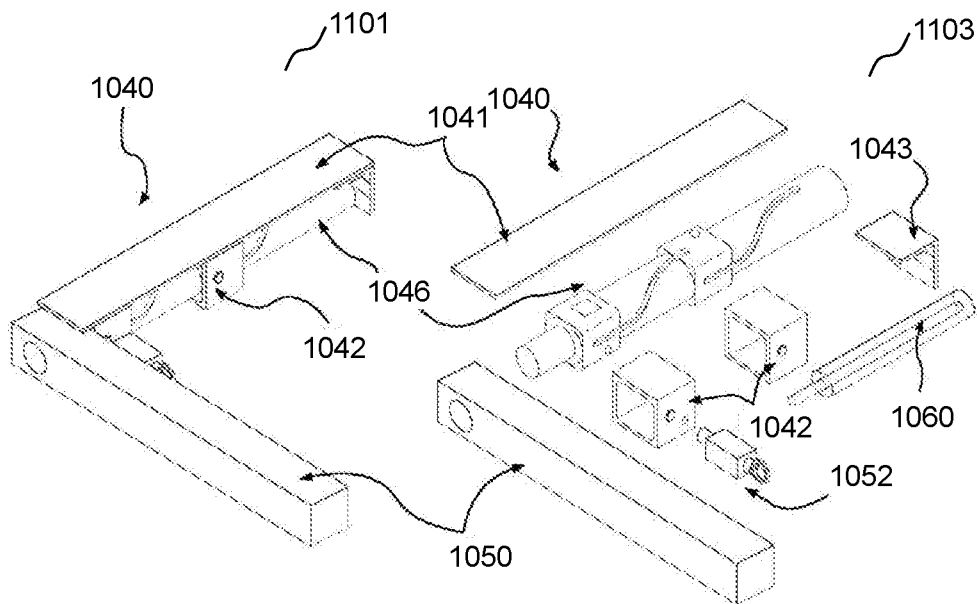


FIG. 11A

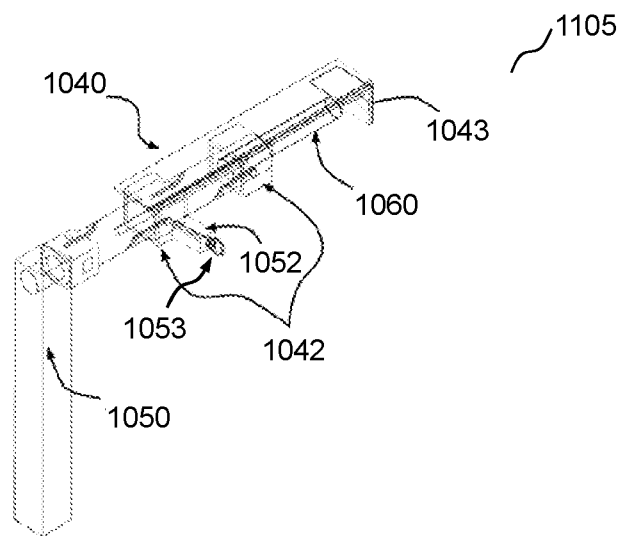


FIG. 11B

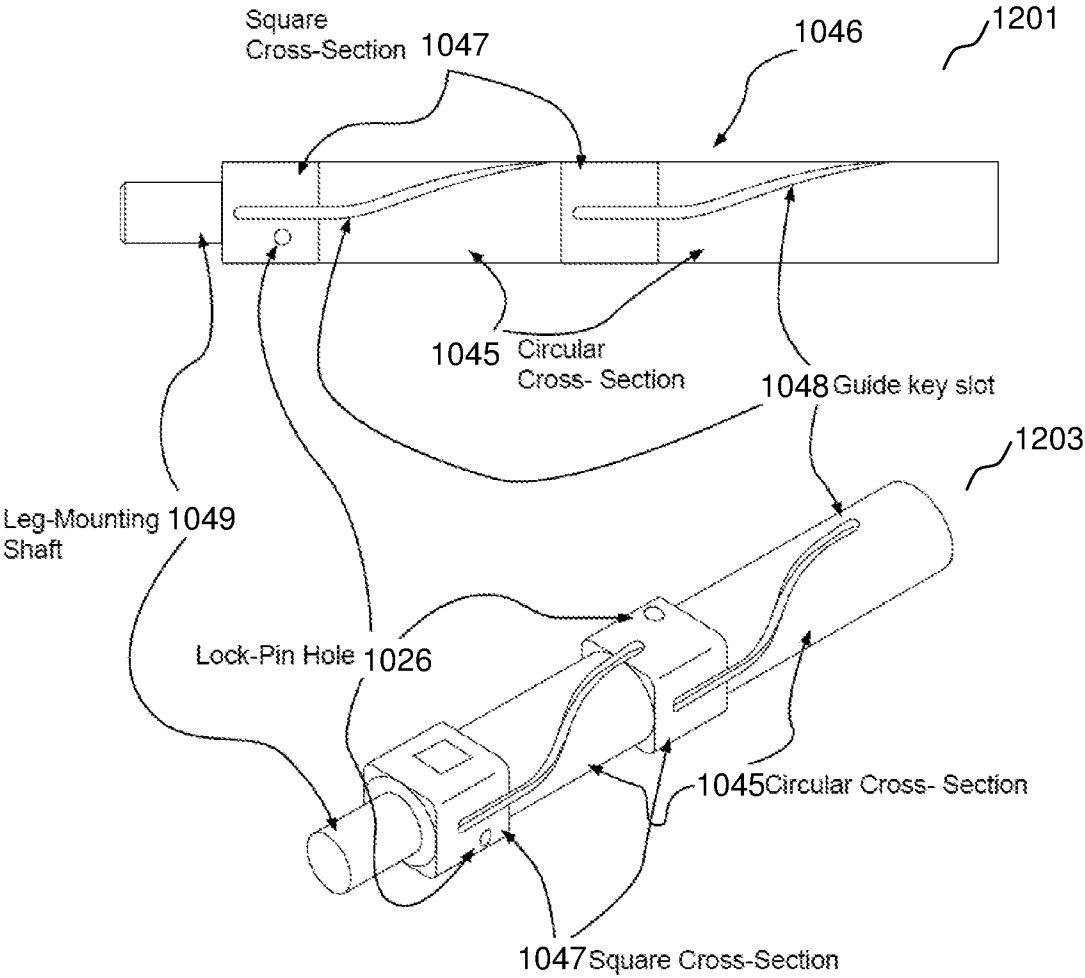


FIG. 12

14 / 37

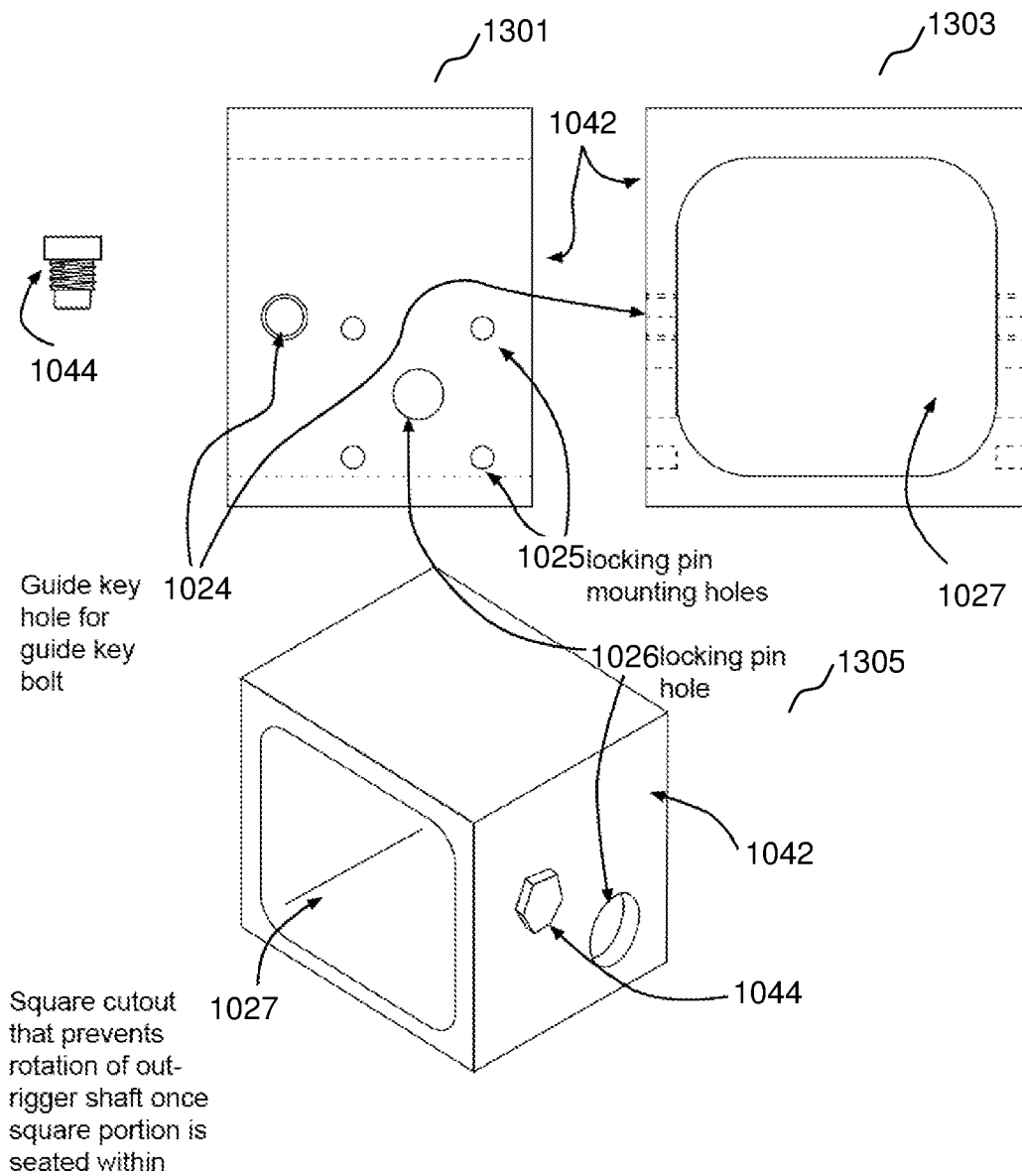


FIG. 13

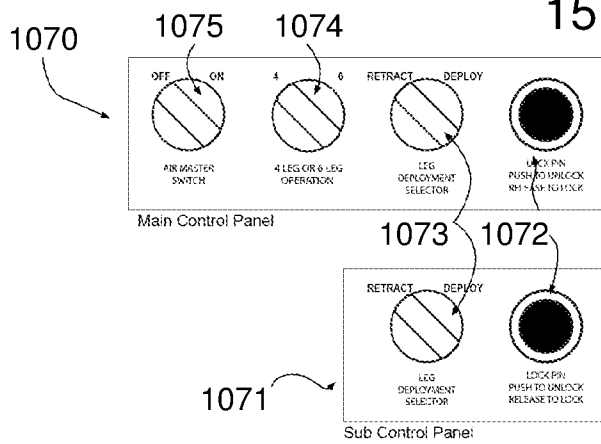


FIG. 14A

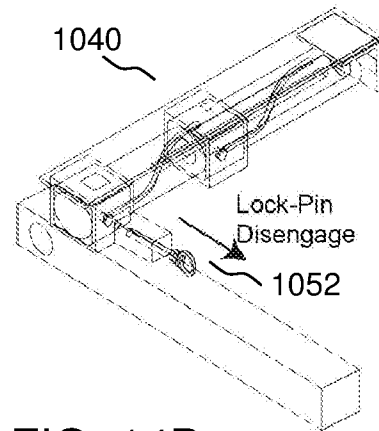


FIG. 14B

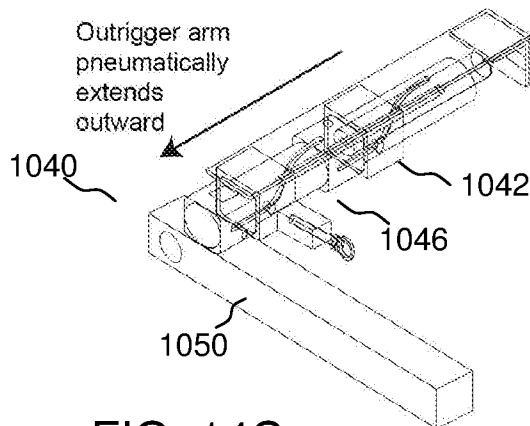


FIG. 14C

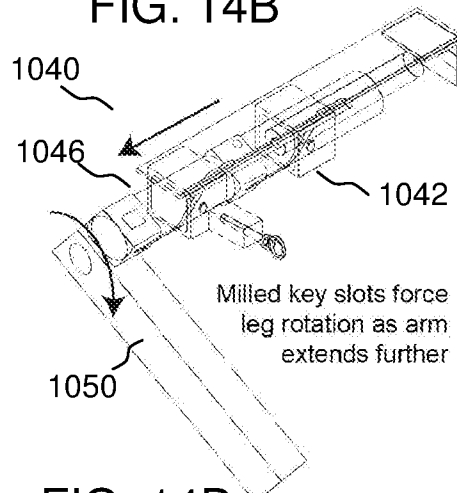


FIG. 14D

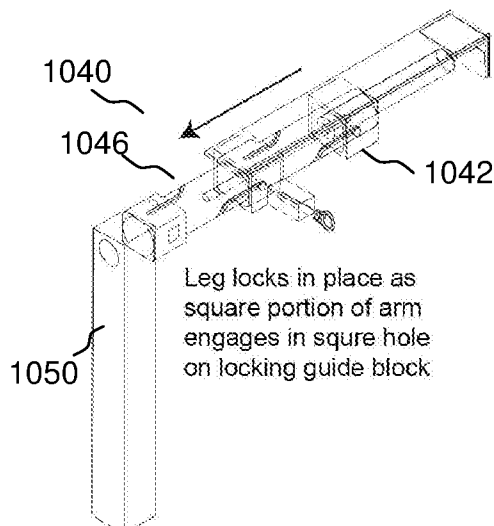


FIG. 14E

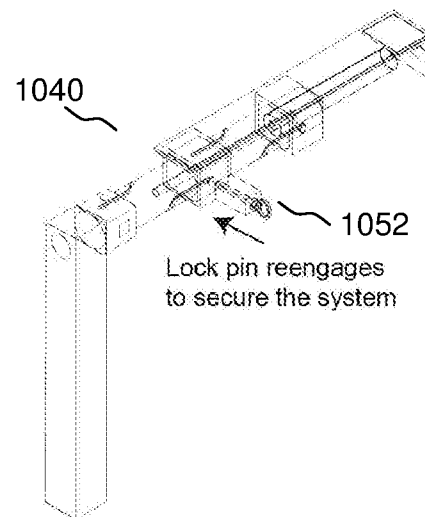


FIG. 14F

16 / 37

Deployment of Apparatus -
How it is used

Step 1:
HGV suspension is raised to its highest point (using
vehicle pneumatic suspension or using other means)

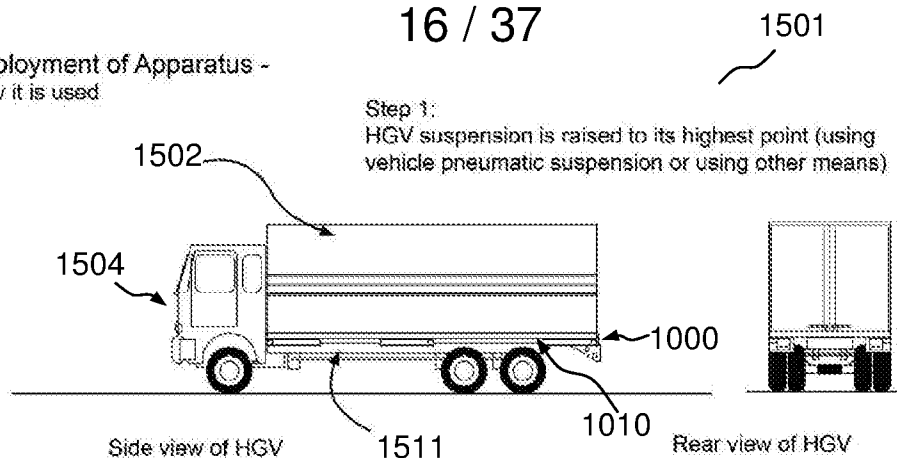


FIG. 15A

Deployment of Apparatus -
How it is used

Step 2:
Apparatus is pneumatically deployed

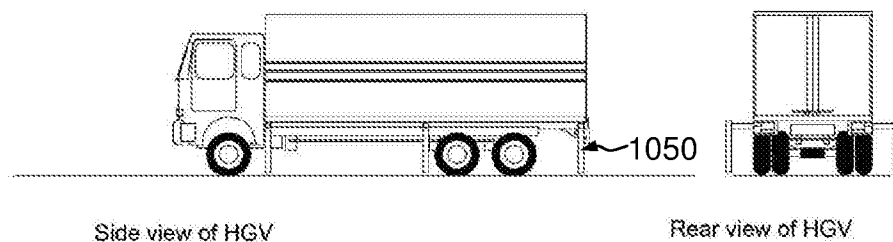


FIG. 15B

Deployment of Apparatus -
How it is used

Step 3:
HGV body is disconnected from the HGV chassis and
the chassis is lowered to its lowest point

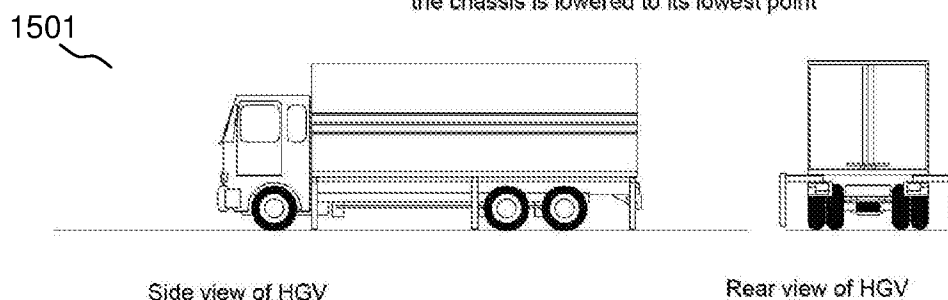


FIG. 15C

17 / 37

Deployment of Apparatus -
How it is used

Step 4:
HGV Chassis can be driven away leaving the HGV
Body free standing on the apparatus

1501

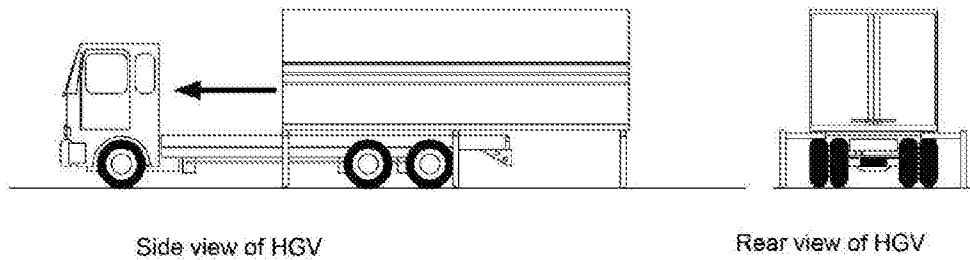


FIG. 15D

Deployment of Apparatus -
How it is used

Step 5:
HGV Body is now free standing on the apparatus

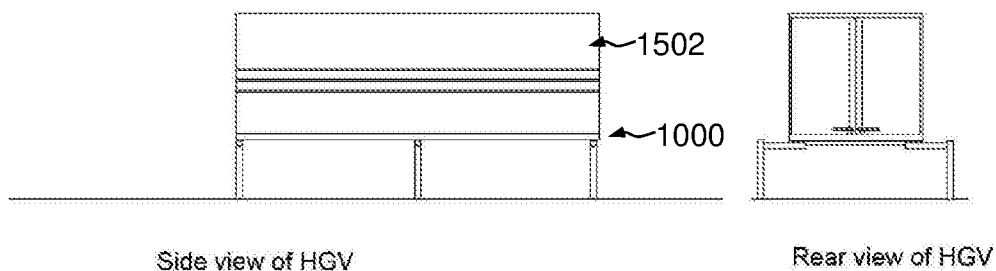


FIG. 15E

Recovery of Apparatus -
How it is used

Step 6:
HGV Chassis is lowered to its minimum height and
backed up under the HGV Body

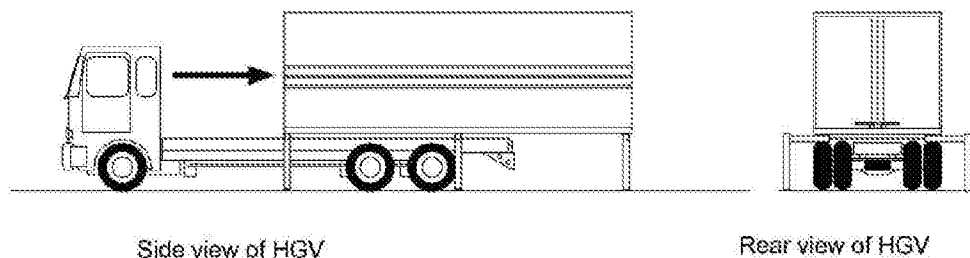


FIG. 15F

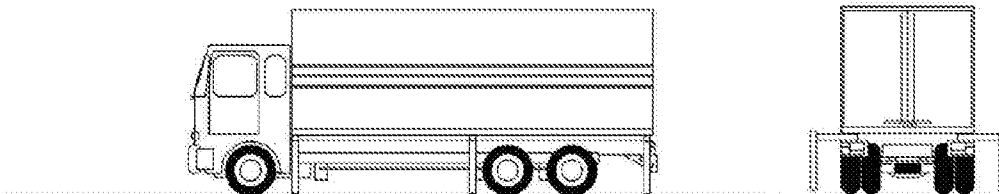
18 / 37

Recovery of Apparatus -
How it is used

Step 7:

HGV Chassis is raised to its highest point so that the
apparatus legs no longer touch the ground.

1501



Side view of HGV

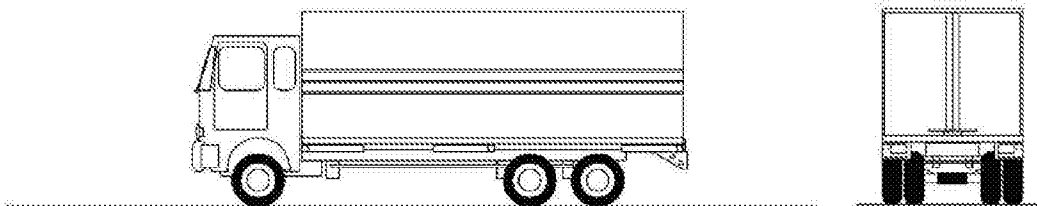
FIG. 15G

Rear view of HGV

Recovery of Apparatus -
How it is used

Step 8:

HGV Body is secured to the HGV Chassis and the
apparatus is retracted



Side view of HGV

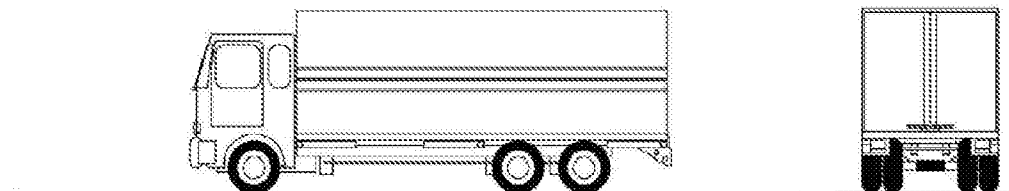
FIG. 15H

Rear view of HGV

Recovery of Apparatus -
How it is used

Step 9:

HGV Chassis is lowered to its normal operating height
and the HGV can now be driven off as a single unit.



Side view of HGV

FIG. 15I

Rear view of HGV

19 / 37

FIG. 16A

System in fully stowed and retracted position

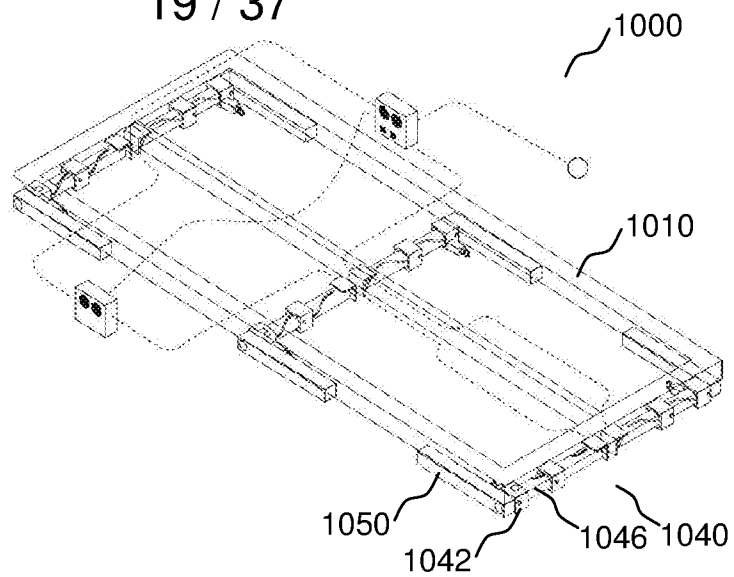


FIG. 16B

System with outriggers fully deployed and legs rotated to full down and locked position

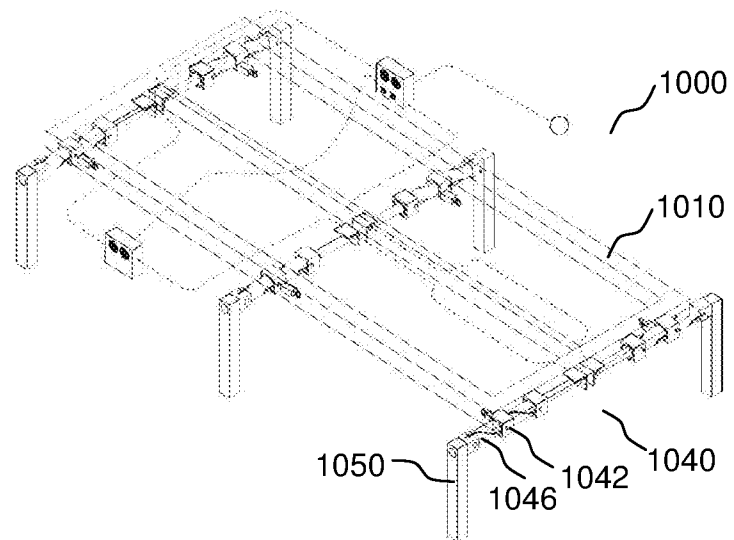
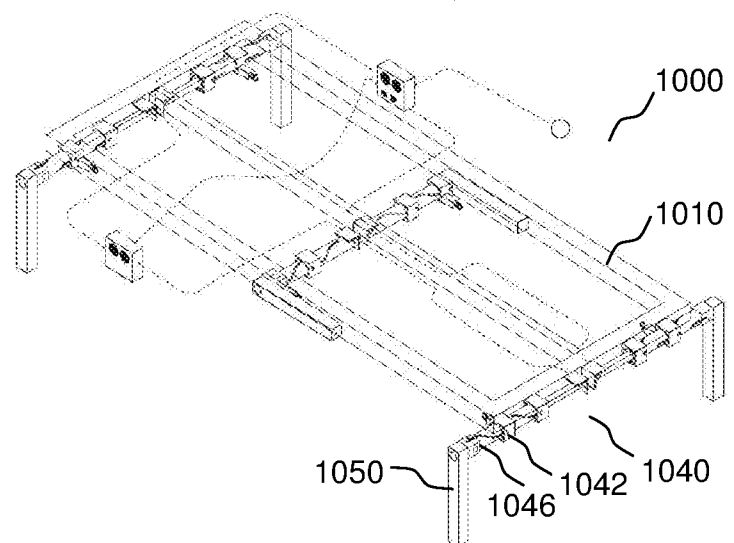


FIG. 16C

System with four outriggers deployed and legs rotated to full down and locked position, two middle legs remain stowed - based on user selection



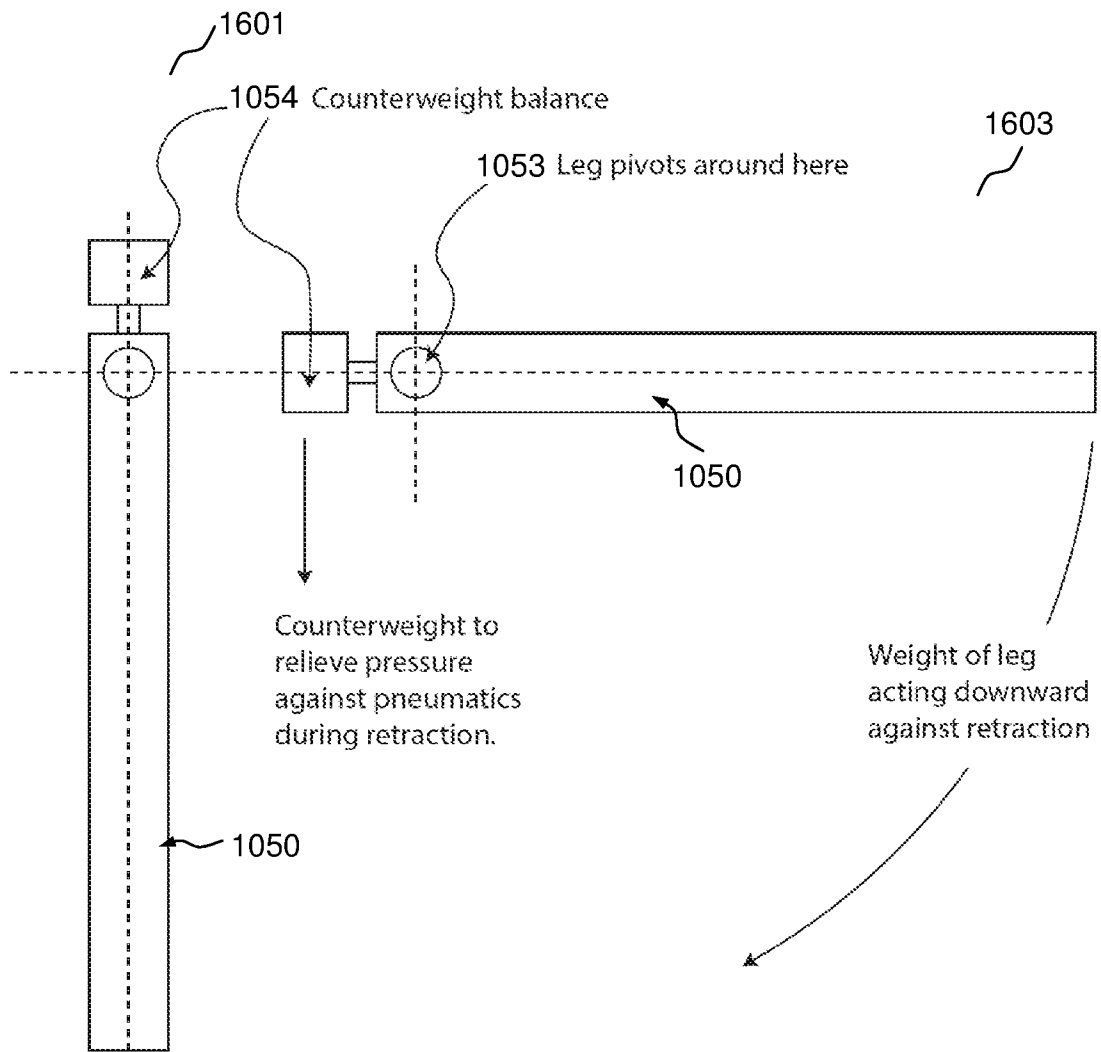


FIG. 16D

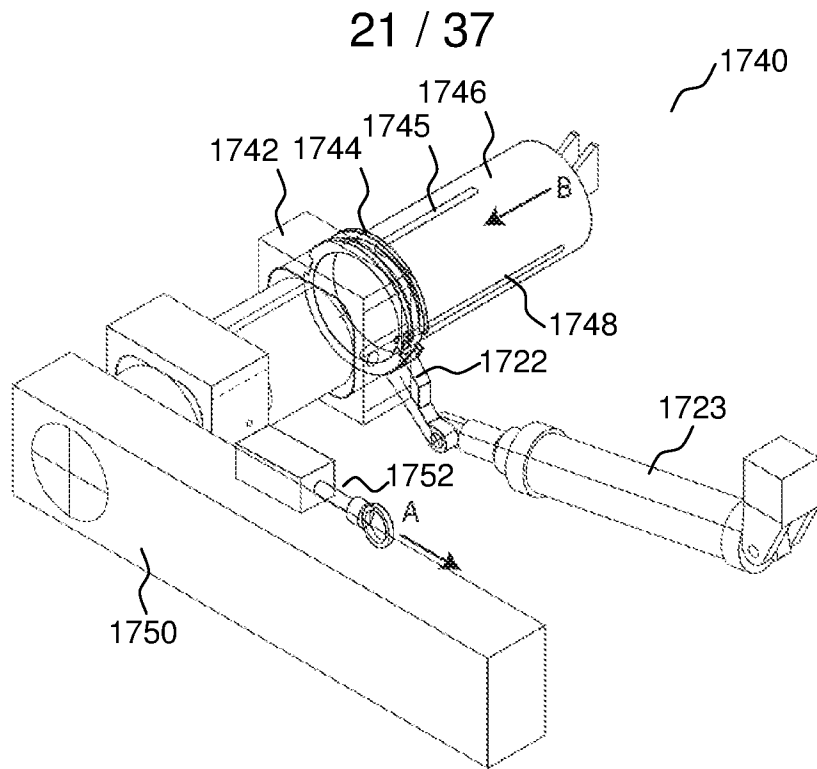


FIG. 17A

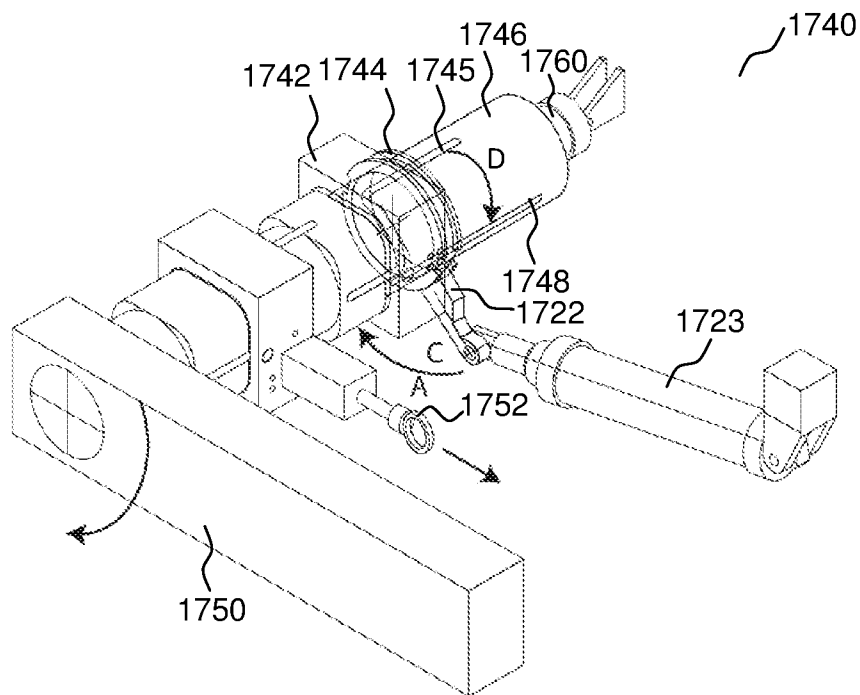


FIG. 17B

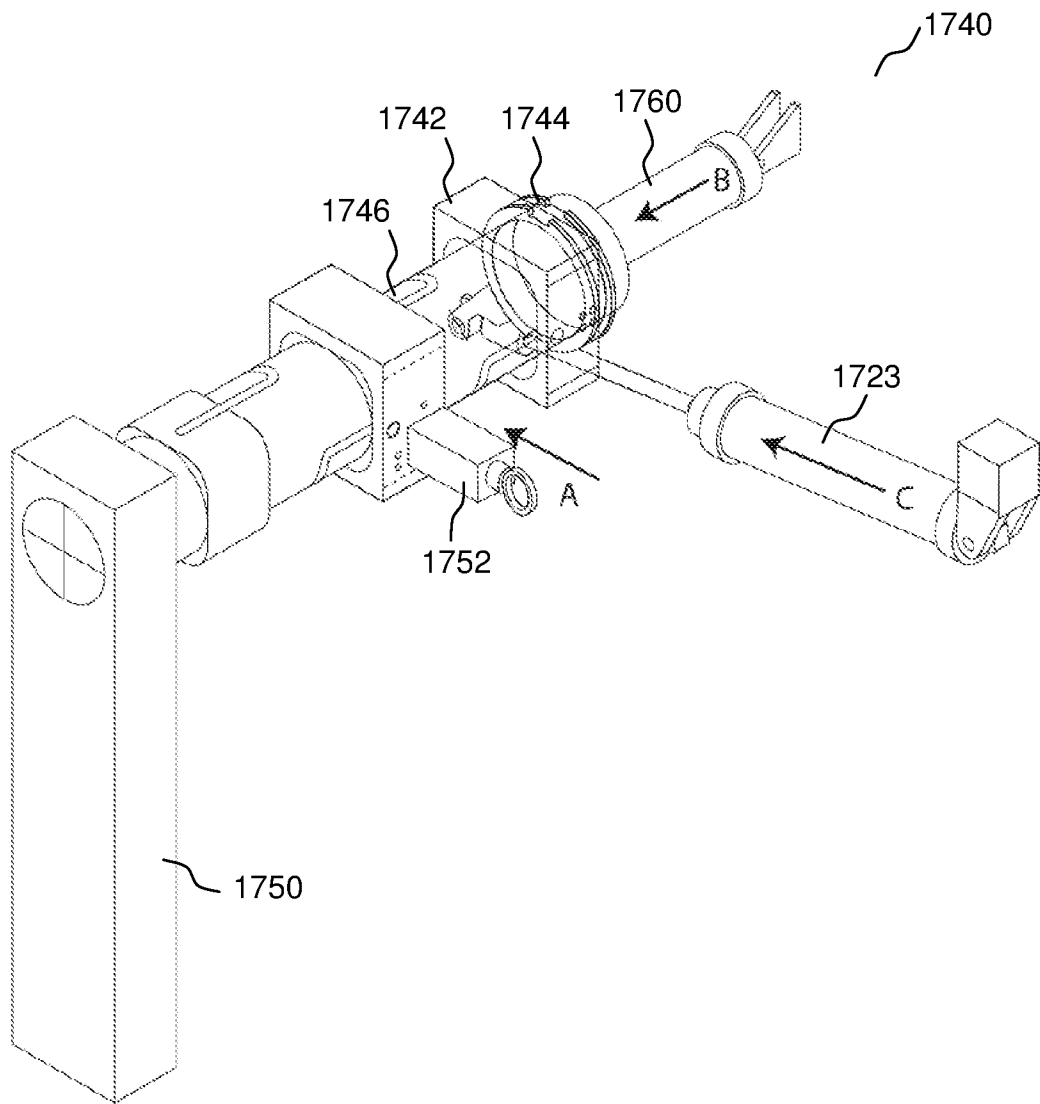


FIG. 17C

23 / 37

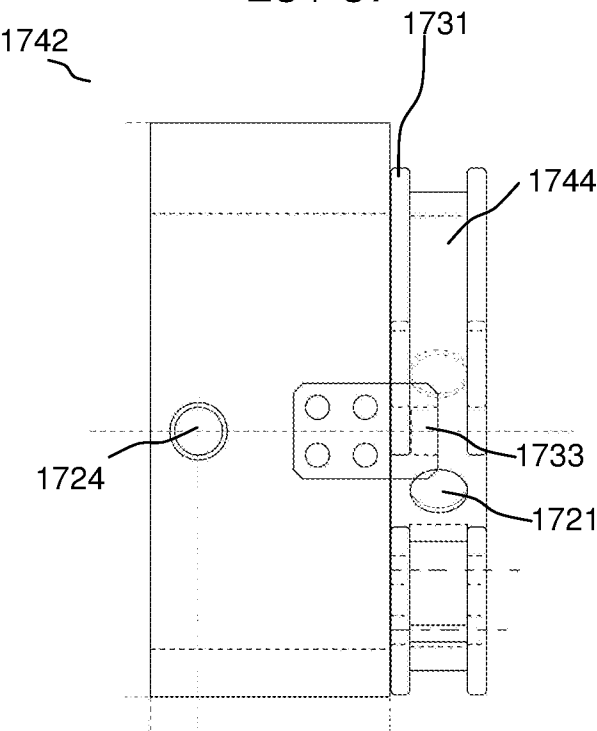


FIG. 17D

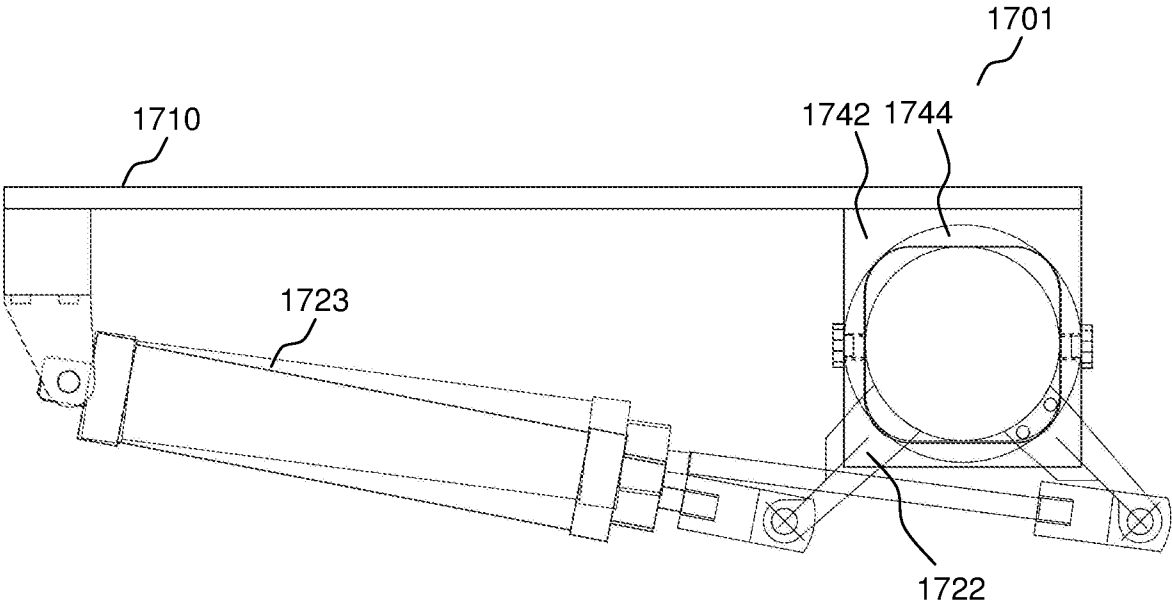


FIG. 17E

24 / 37

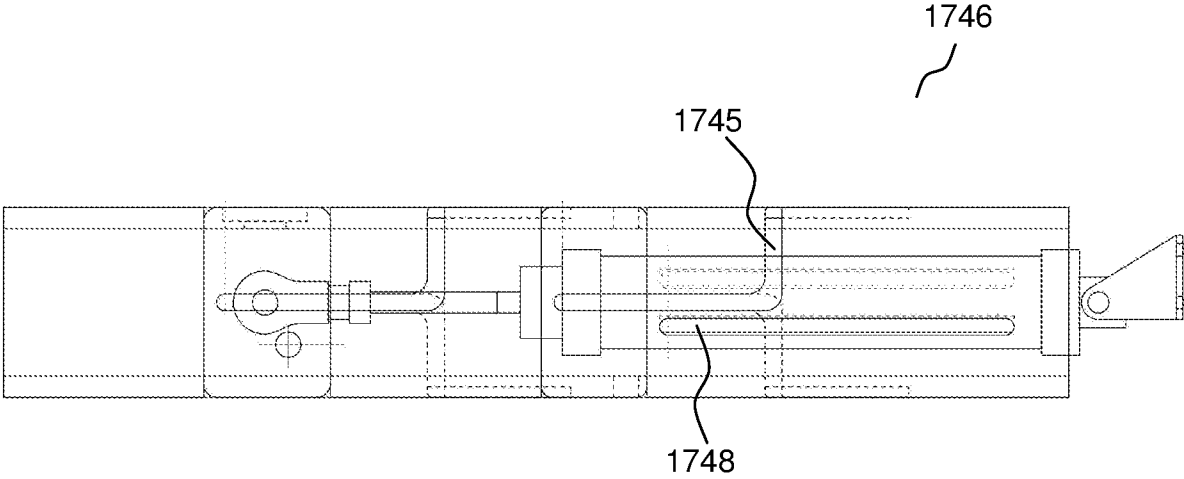


FIG. 17F

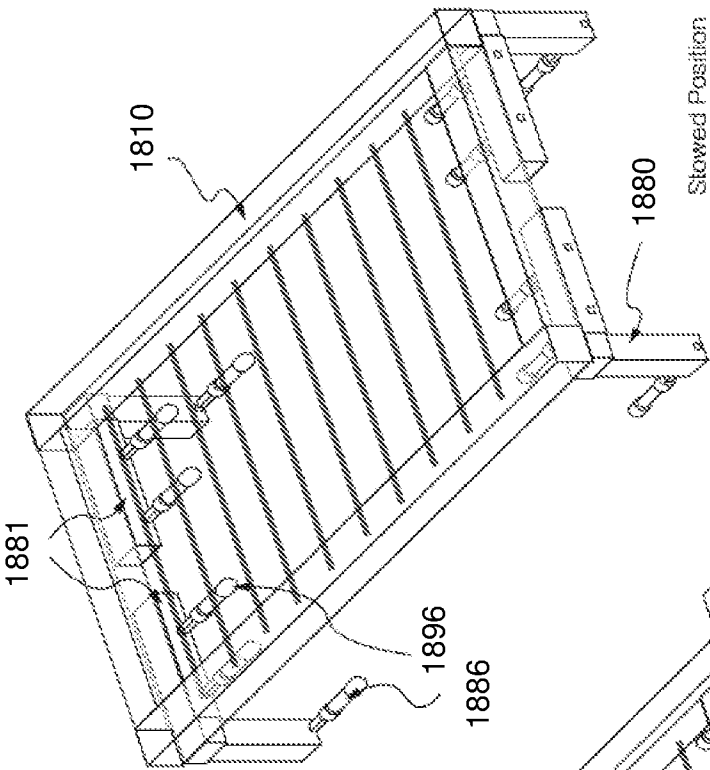


FIG. 18B

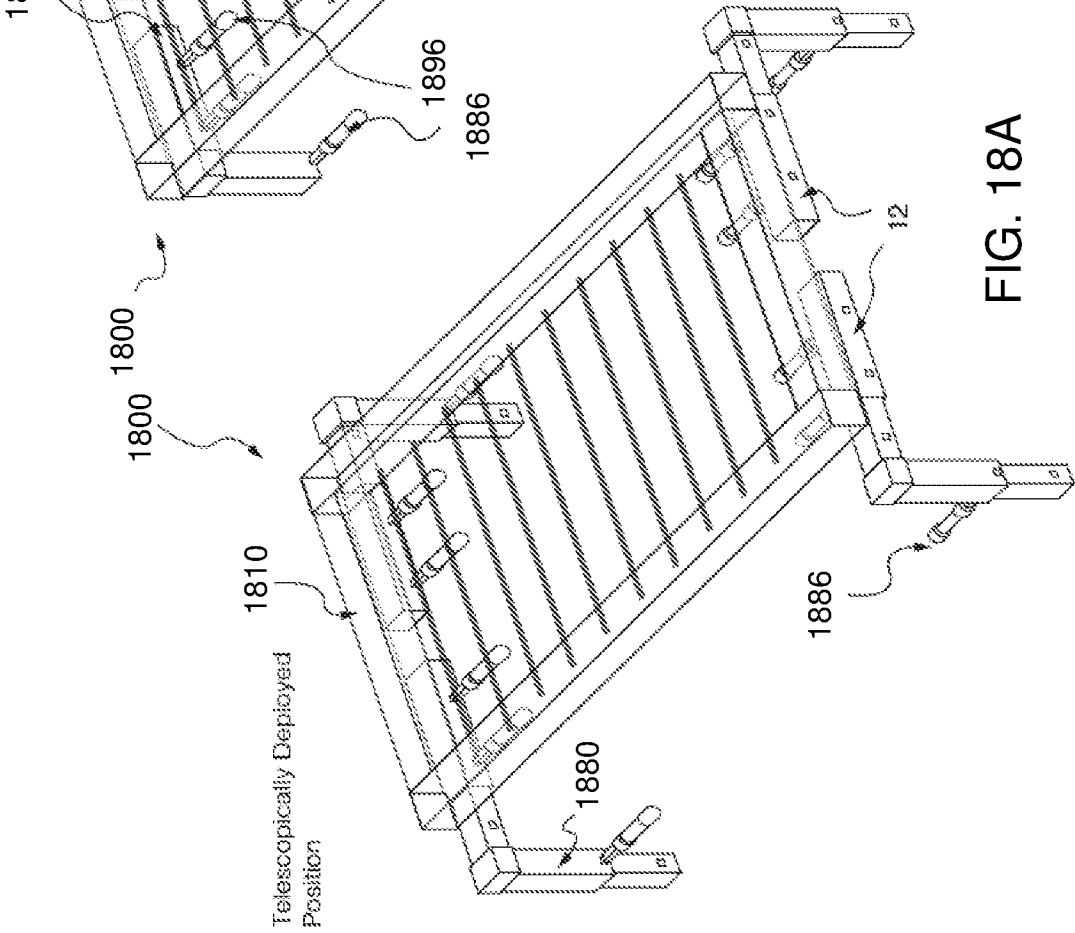


FIG. 18A

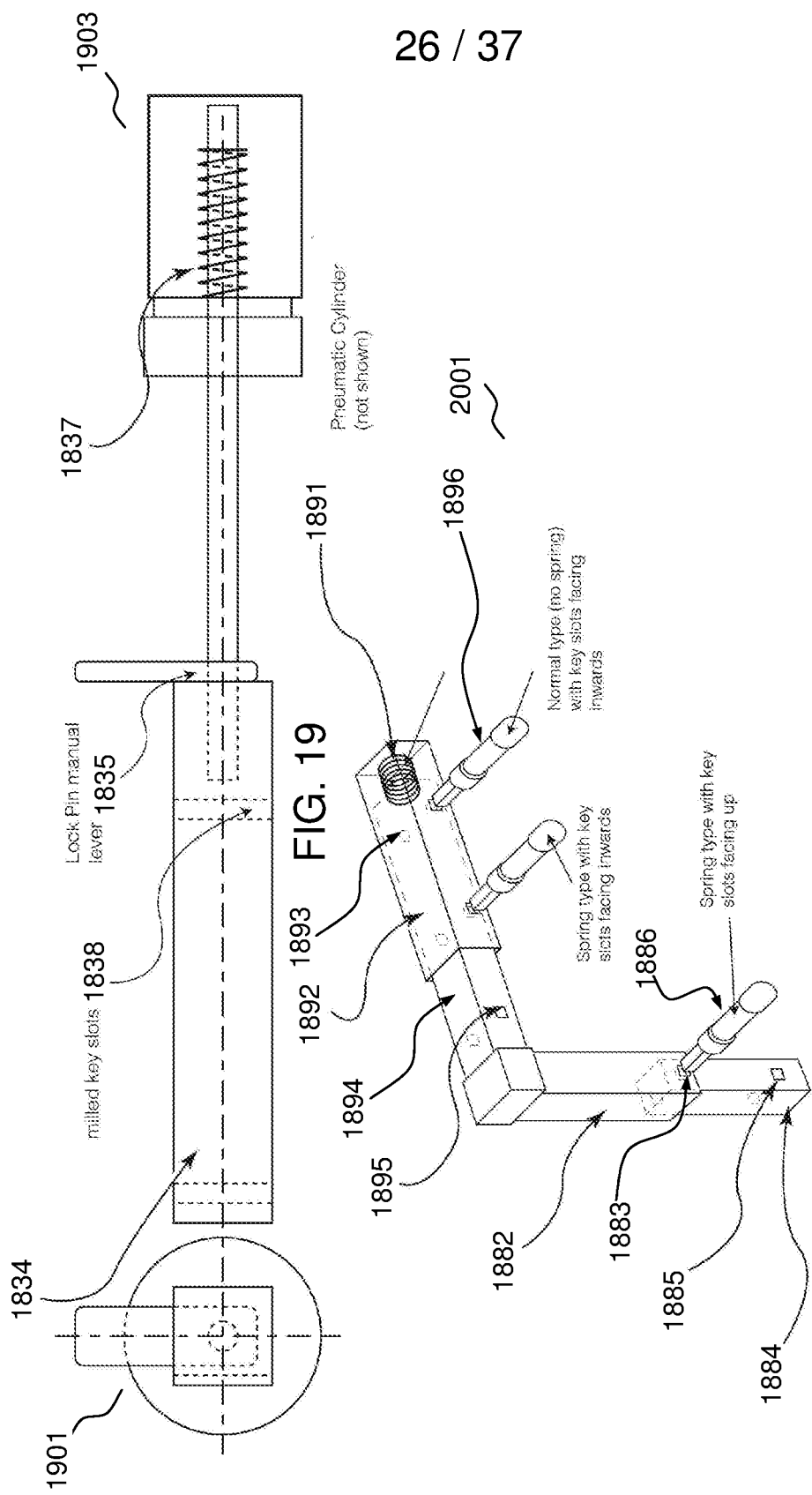
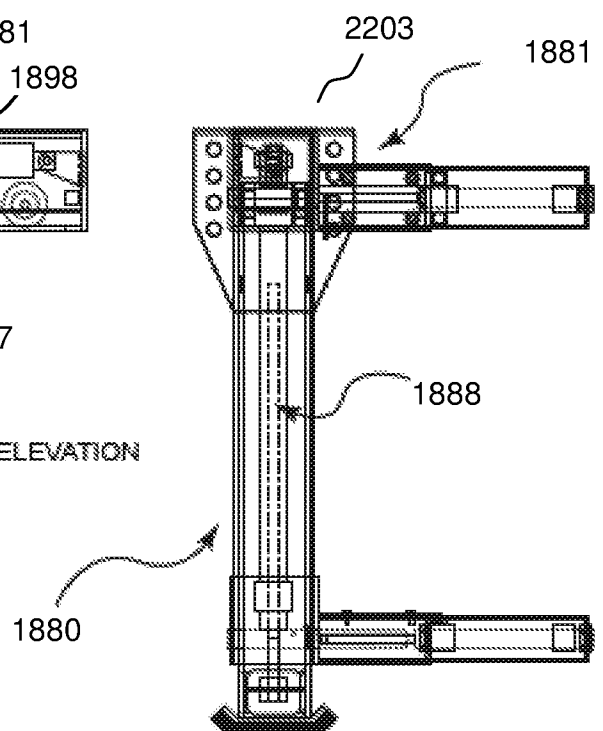
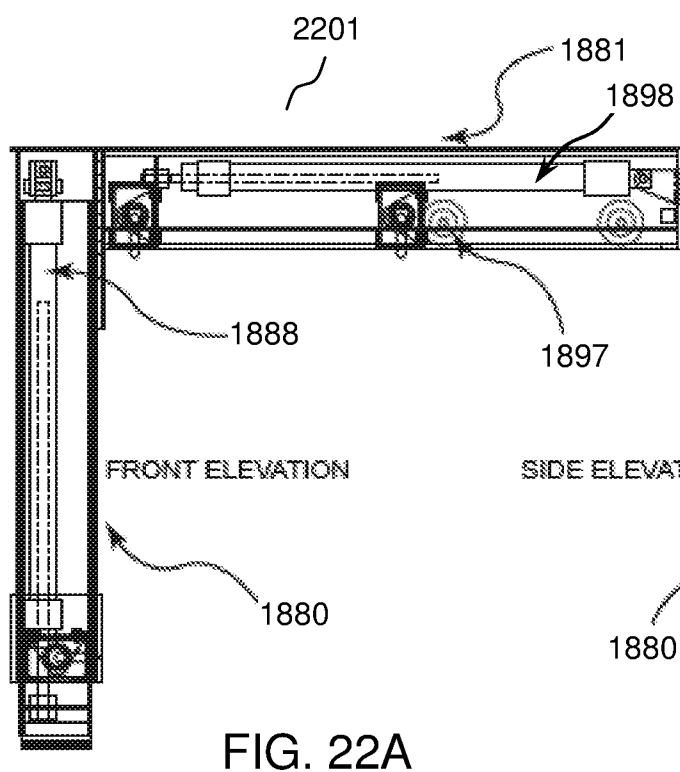
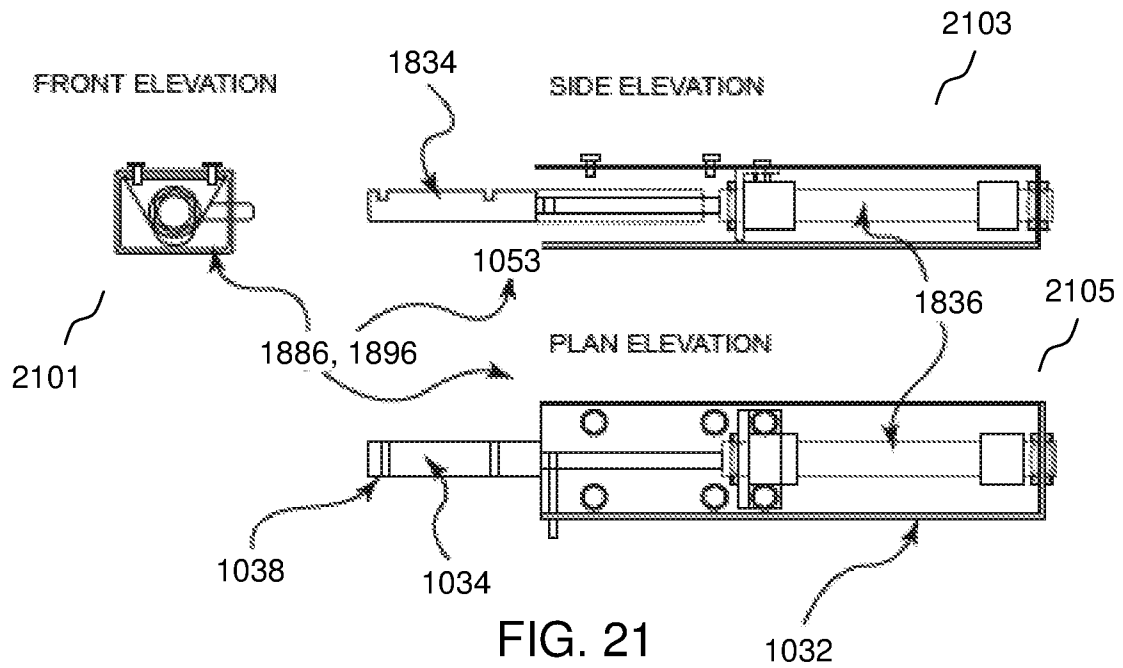


FIG. 20

27 / 37



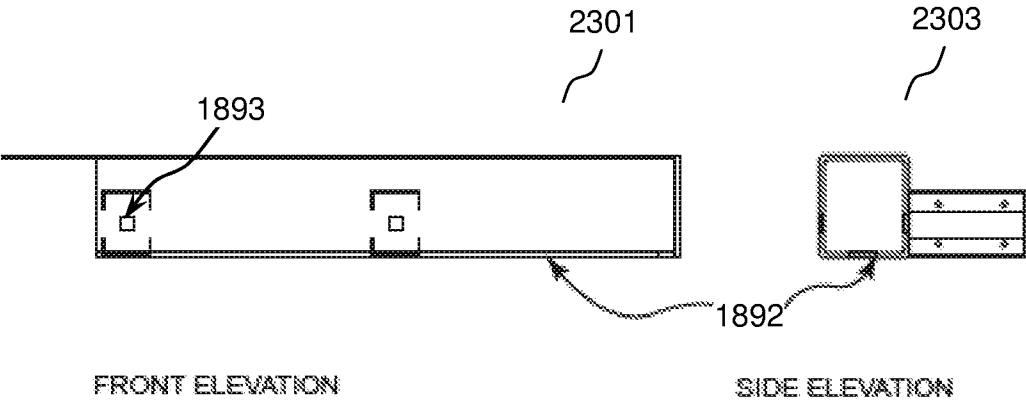


FIG. 23

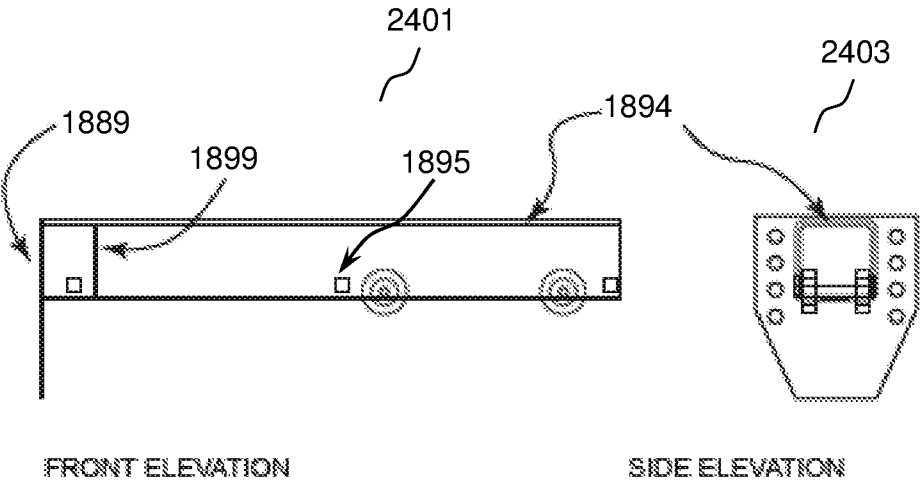


FIG. 24

29 / 37

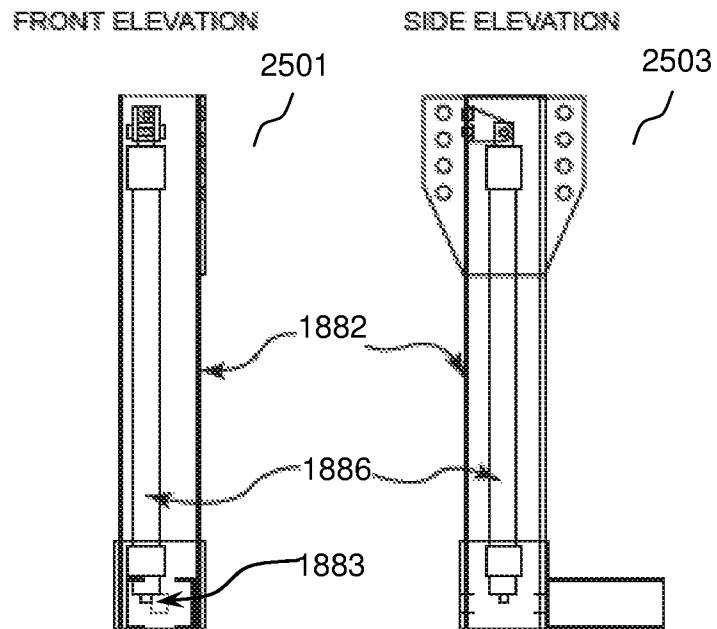


FIG. 25

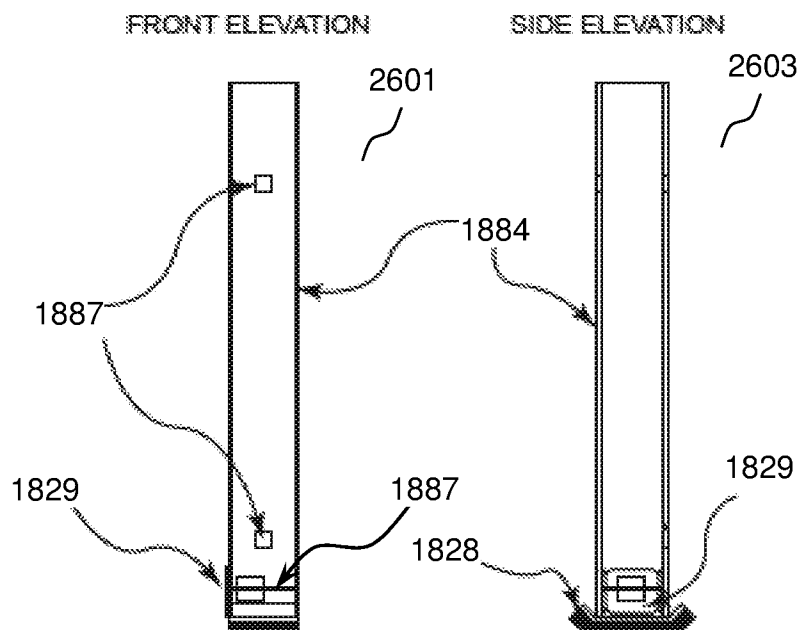
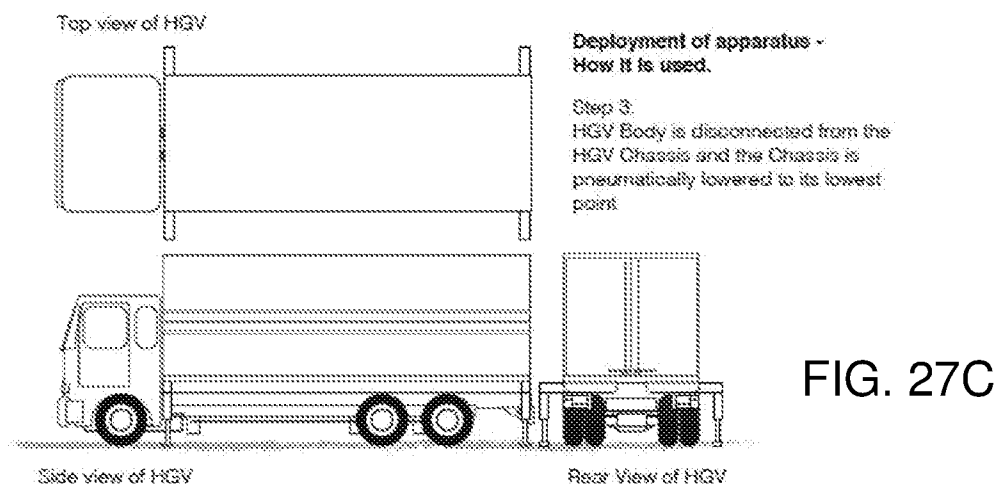
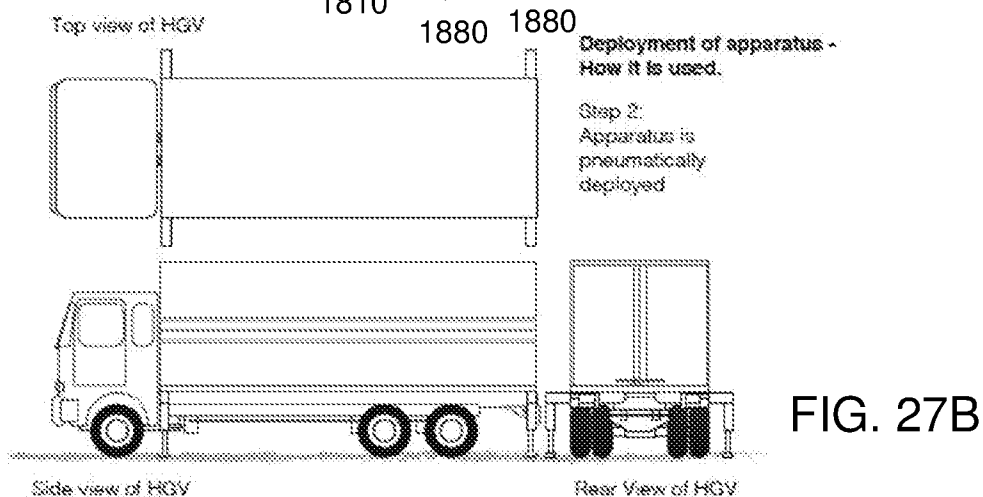
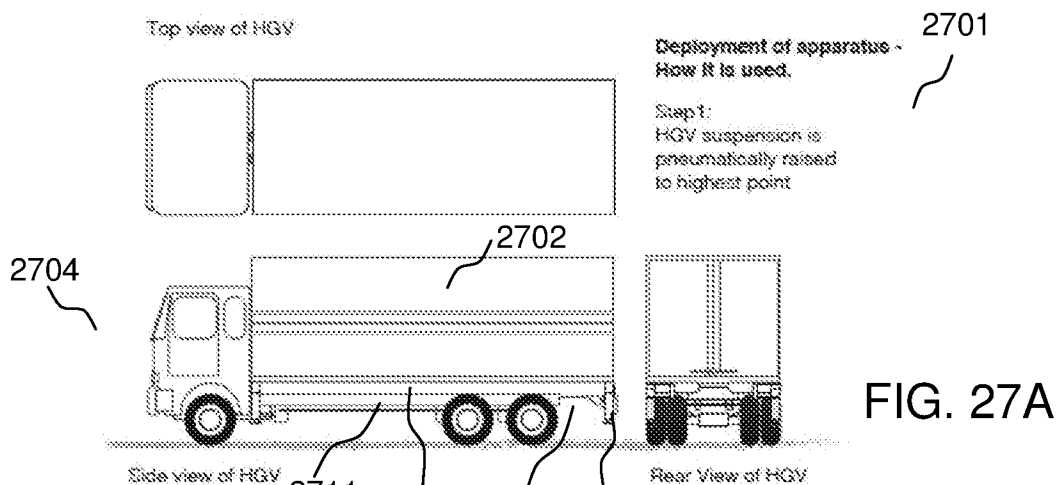


FIG. 26

30 / 37



31 / 37

2701

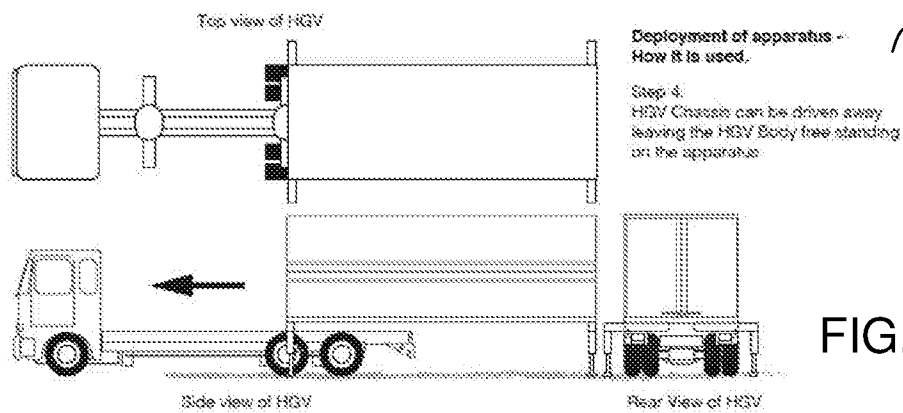


FIG. 27D

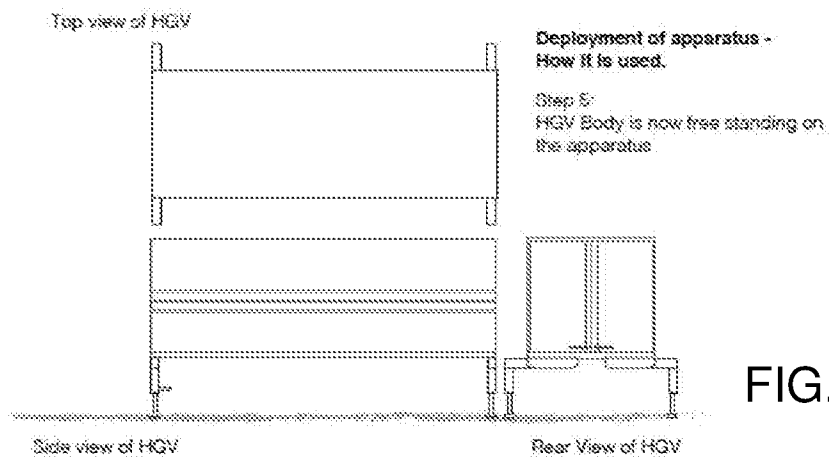


FIG. 27E

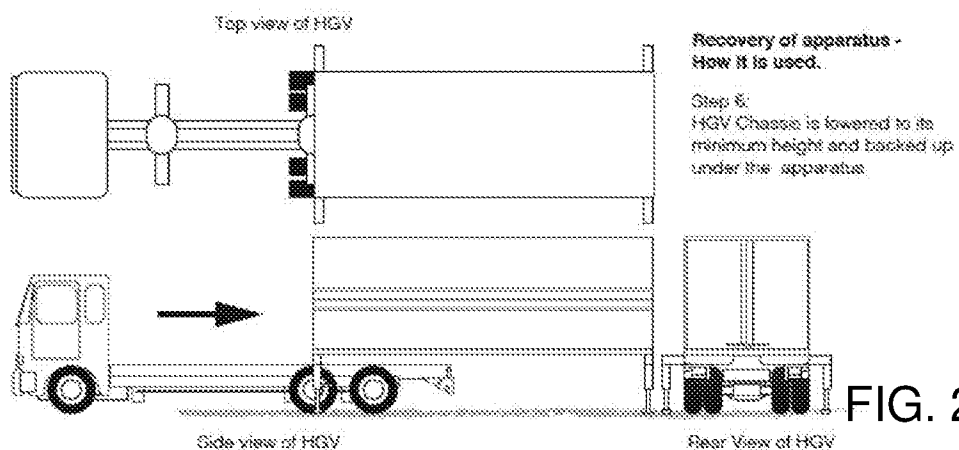
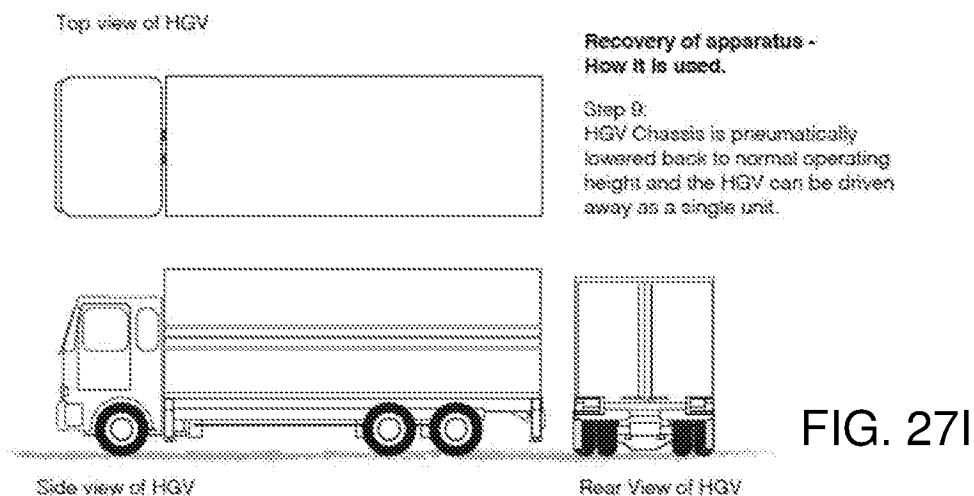
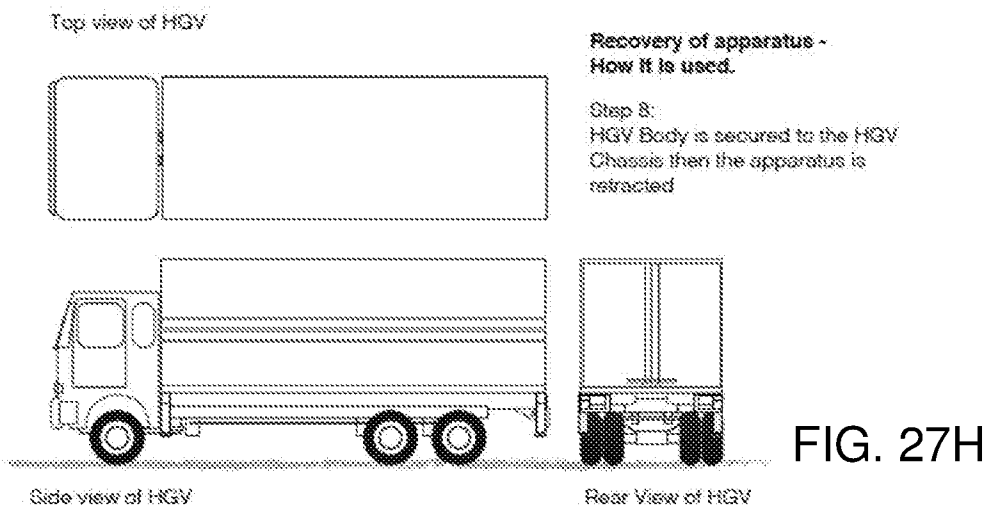
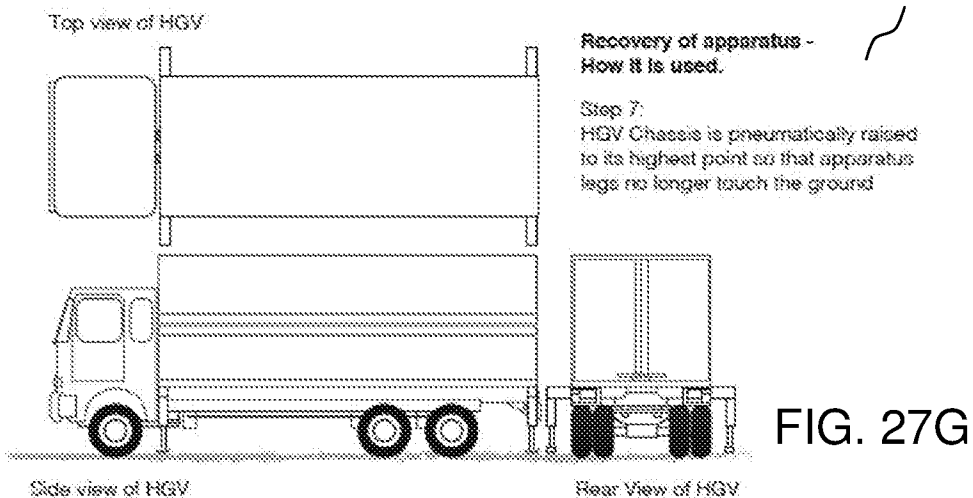


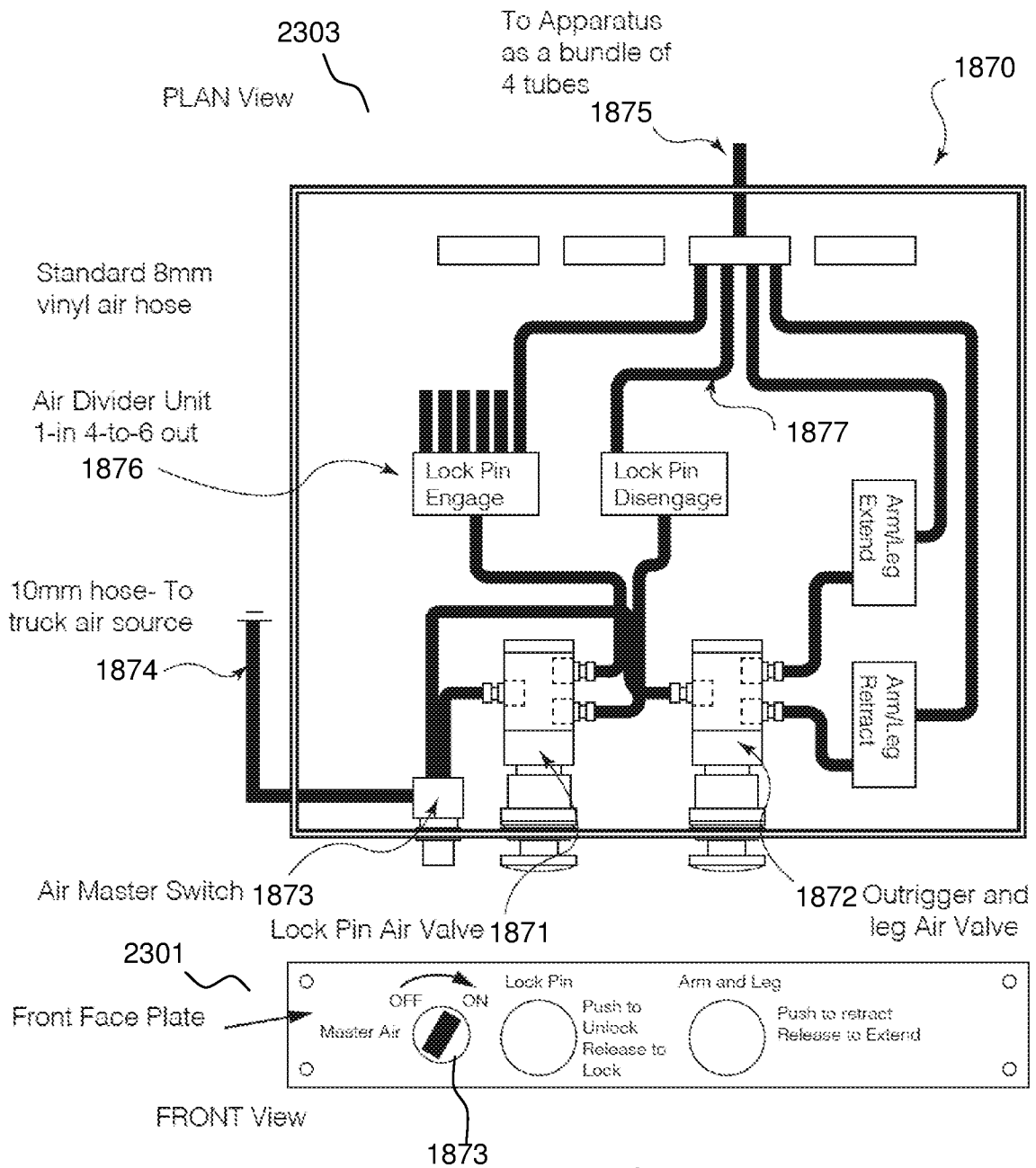
FIG. 27F

32 / 37

2701



33 / 37



34 / 37

Locking Pin Mechanism
viewed from above

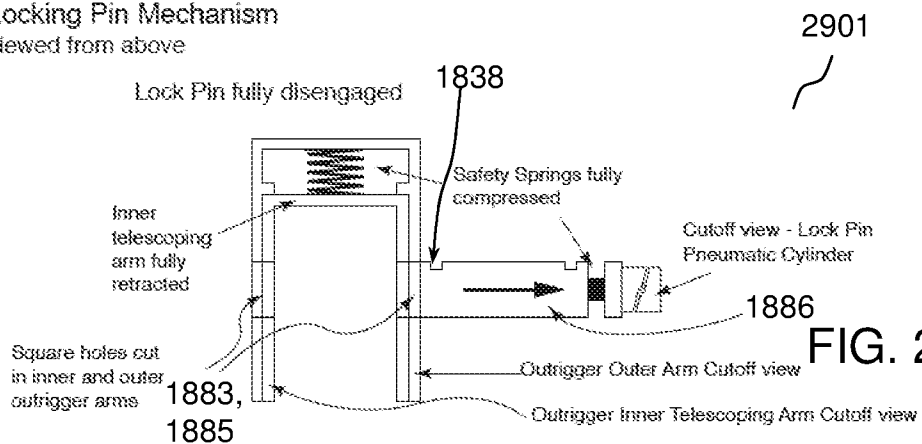


FIG. 29A

Lock Pin Moving In and out of Square Holes

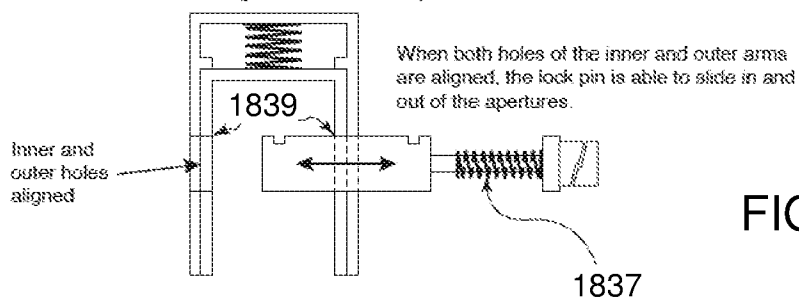


FIG. 29B

Lock Pin pneumatic piston fully extended

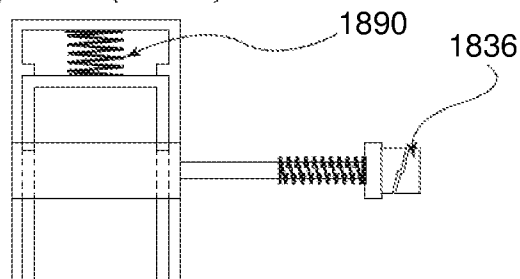


FIG. 29C

Safety spring / pneumatic action causes the Lock-Pin to lock in place

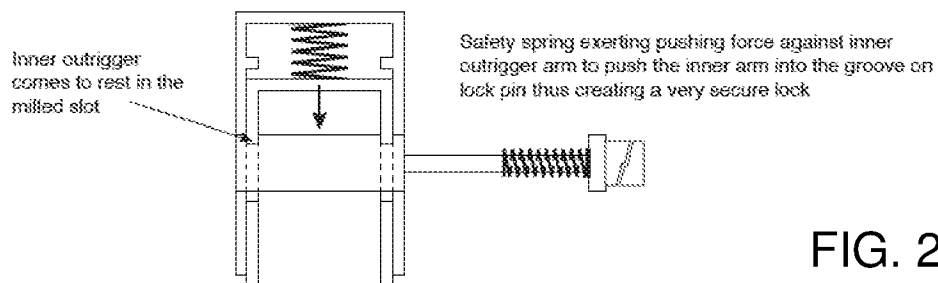


FIG. 29D

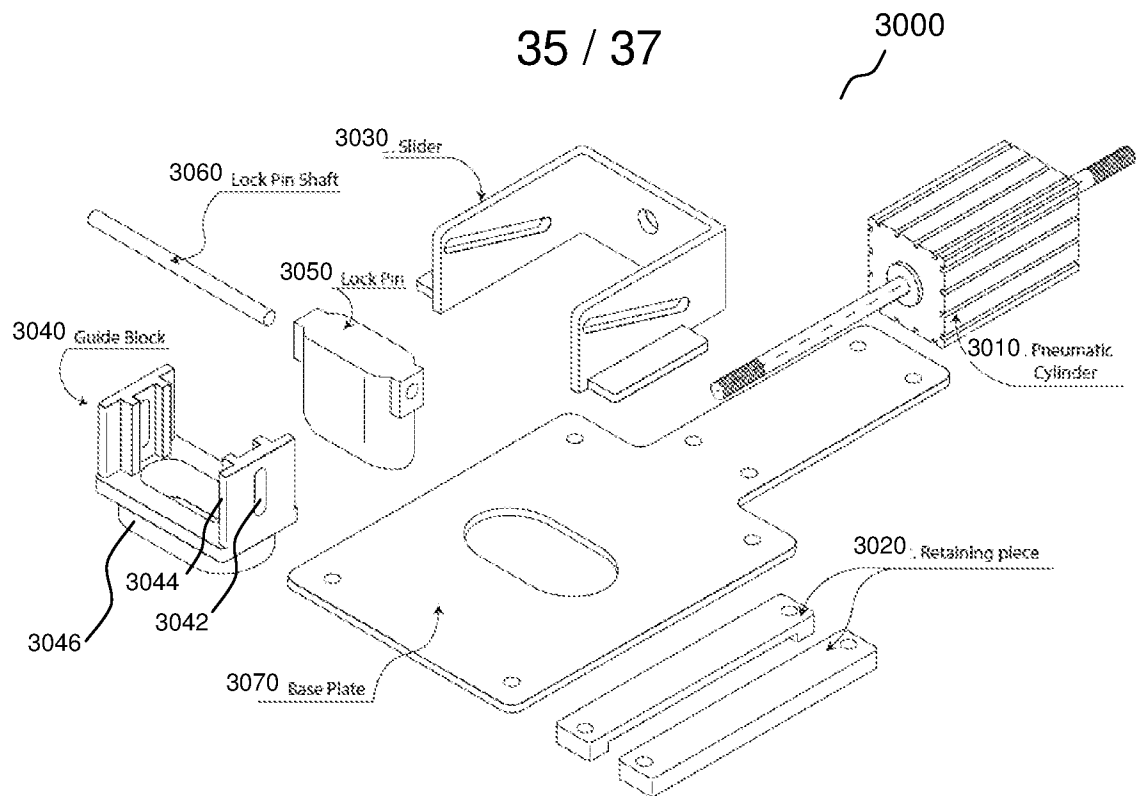


FIG. 30A

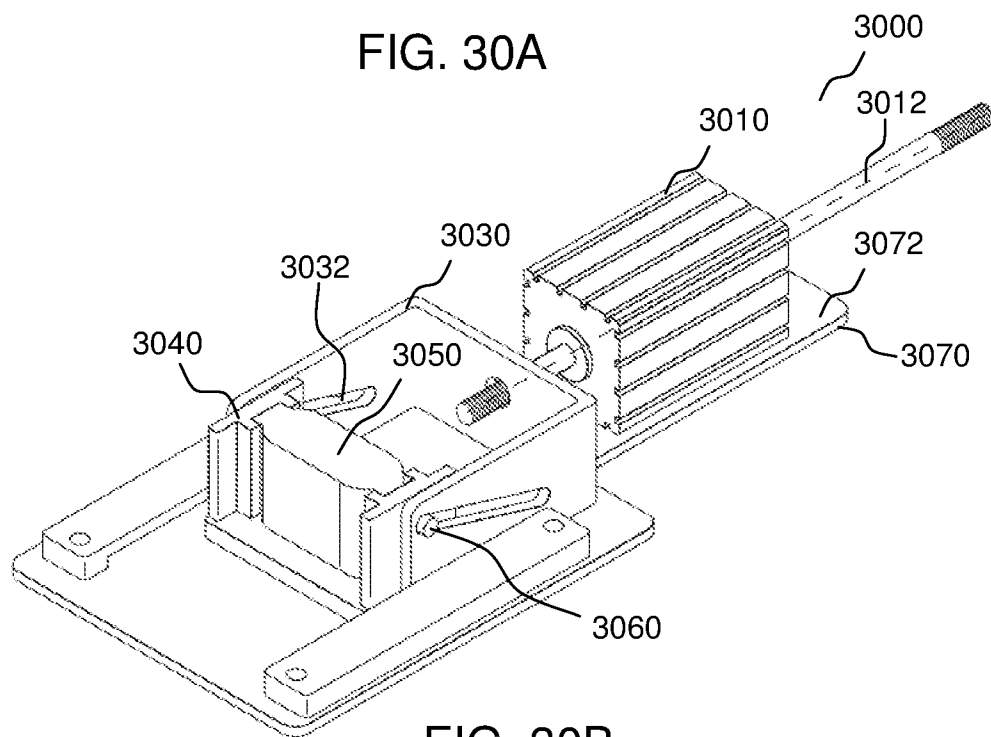


FIG. 30B

36 / 37

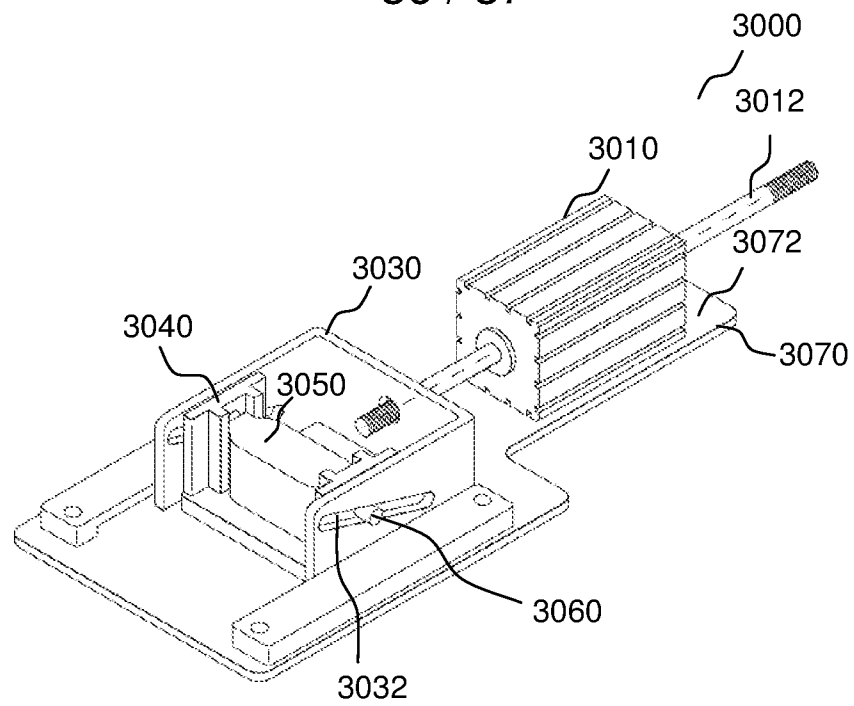


FIG. 30C

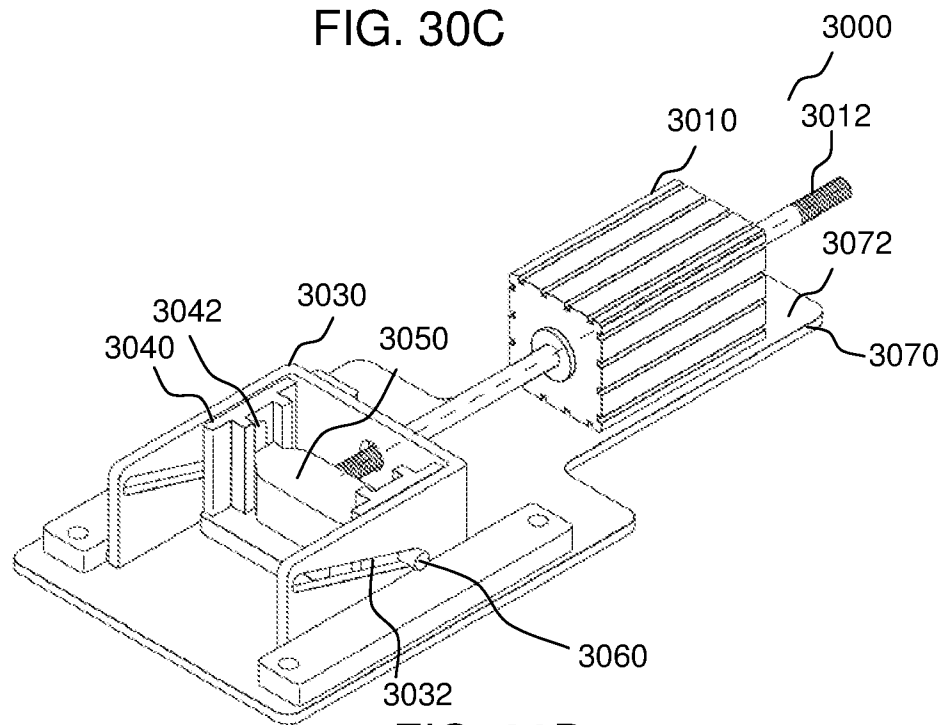


FIG. 30D

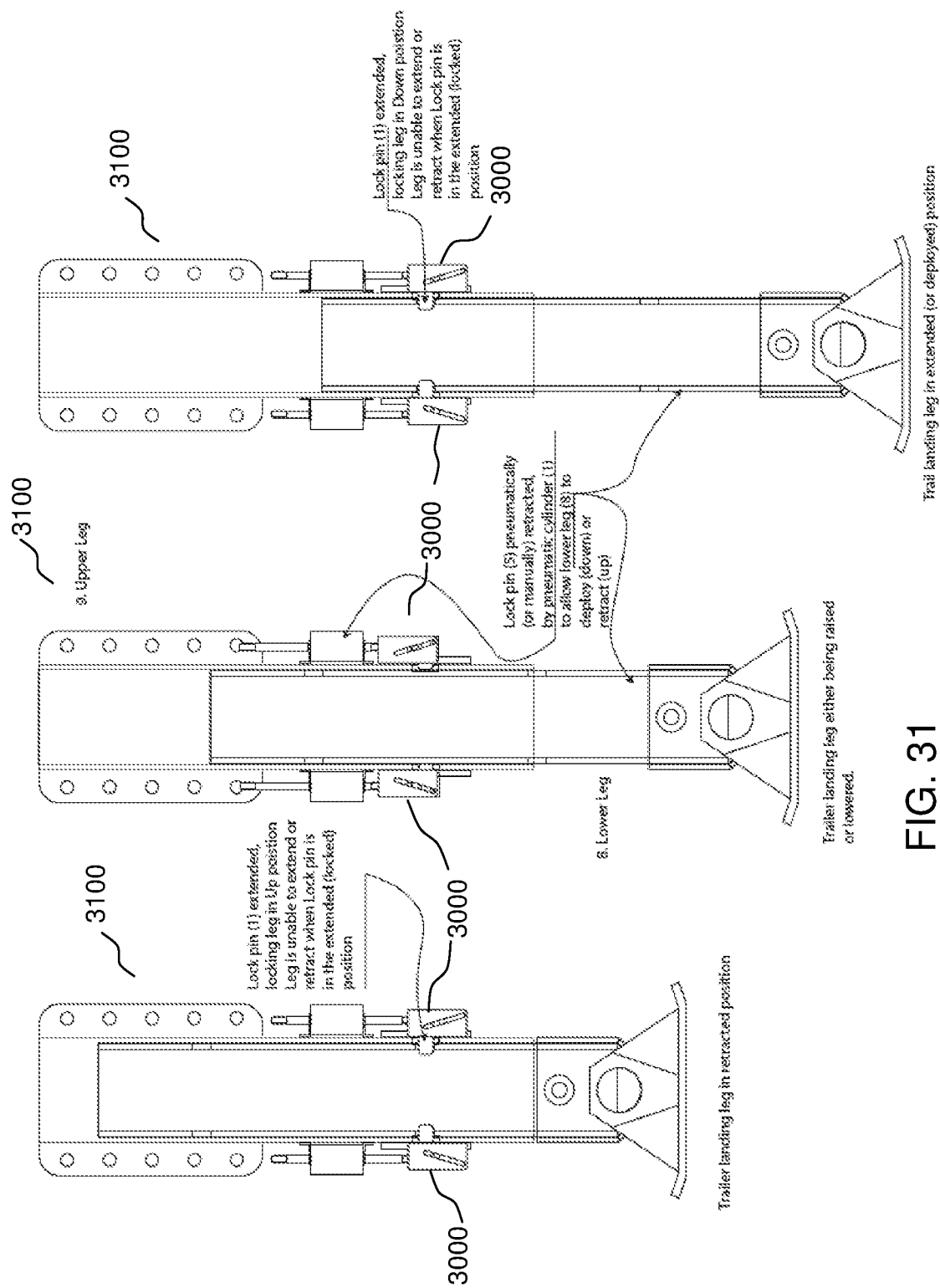


FIG. 31