

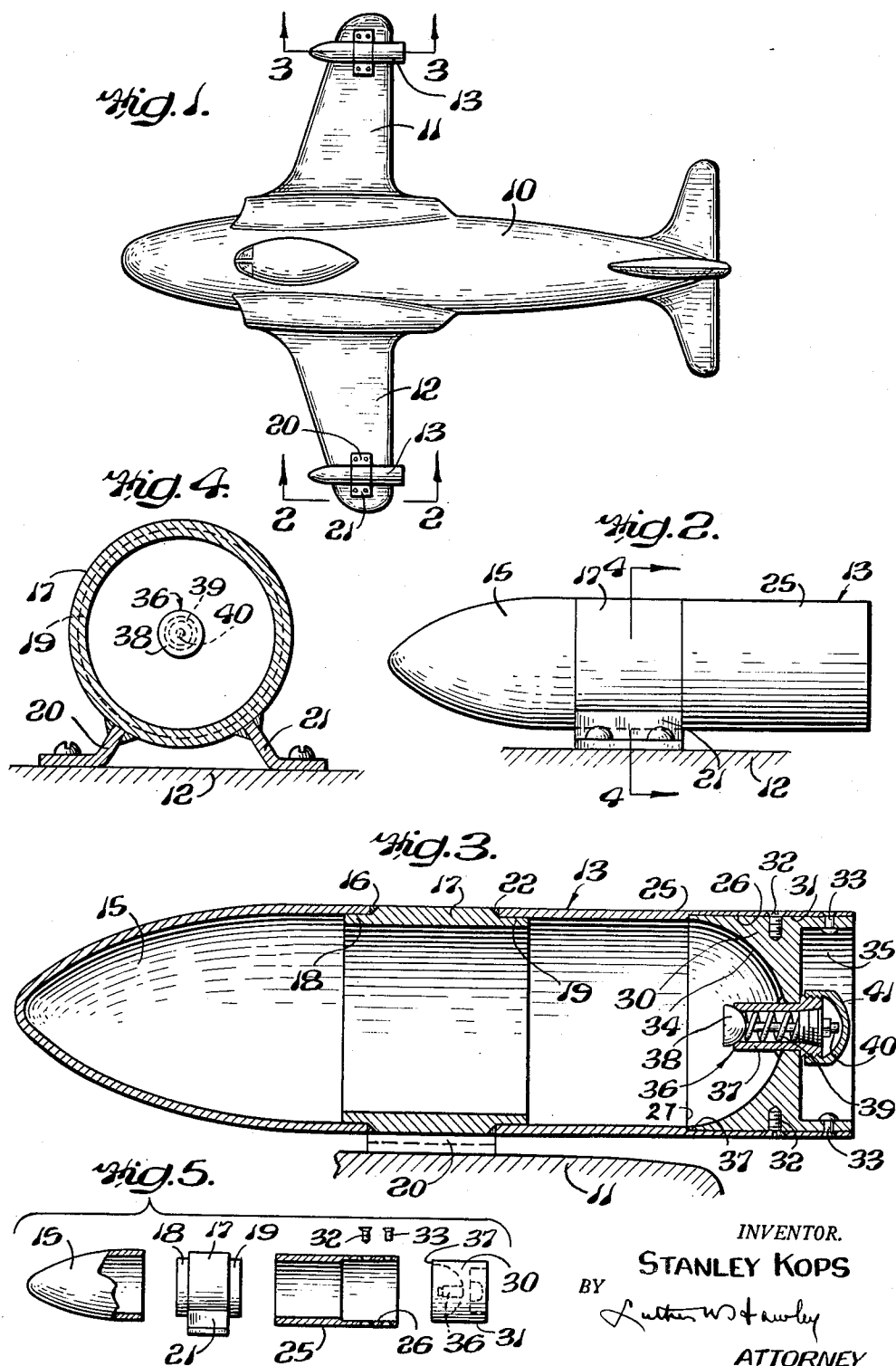
Feb. 13, 1951

S. KOPS

2,541,371

MOUNTED SECTIONAL CONTAINER

Filed Oct. 30, 1948



INVENTOR.
STANLEY KOPS
 BY *Luther W. Hawley*
 ATTORNEY

UNITED STATES PATENT OFFICE

2,541,371

MOUNTED SECTIONAL CONTAINER

Stanley Kops, Philadelphia, Pa.

Application October 30, 1948, Serial No. 57,466

1 Claim. (Cl. 220-5)

1

This invention relates to gas containers or shells and more particularly to mounted sectional container.

The invention has for its salient object to provide an improved gas container so constructed that it can be economically manufactured and assembled and will withstand the stresses and strains to which it is subjected in use.

Another object of the invention is to provide improved means for rigidly securing the tank or shell to an airplane wing or part on which it is to be mounted.

Another object of the invention is to provide a container of the character specified having a valve so mounted that it is shielded from accidental contact or damage.

Further objects of the invention will appear from the following specification taken in connection with the drawings which form a part of this application, and in which:

Fig. 1 is a top plan view of an airplane equipped with gas containers embodying the invention;

Fig. 2 is an elevational view, partly in section, taken substantially on line 2-2 of Fig. 1, looking in the direction of the arrows;

Fig. 3 is a longitudinal sectional elevation taken substantially on line 3-3 of Fig. 1, looking in the direction of the arrows;

Fig. 4 is a transverse sectional elevation taken substantially on line 4-4 of Fig. 2, looking in the direction of the arrows; and

Fig. 5 is an exploded view showing the various parts of the containers in separated position prior to assembling.

In the particular embodiment of the invention illustrated in the drawings, the gas container tank or shell was designed for use in storing gas, such as helium gas. In Fig. 1 there is shown an airplane having a fuselage 10 with wings 11 and 12, on the outer ends of which are mounted gas storage containers or shells 13.

The gas container or shell is preferably constructed in the manner illustrated more particularly in section in Fig. 3. The container or shell comprises a pointed front end portion 15, the front end of the portion 15 being closed and the rear end being welded at 16 to the front edge portion of a cylindrical band 17. The band 17 is preferably reduced in section at the front and rear edges thereof, as shown at 18 and 19, and this band has secured thereto, as by welding, bracket lugs 20 and 21. When the shell is to be secured to an airplane wing, the lugs 20 and 21 are bolted to the wing in the manner shown in Fig. 1.

The reduced rear edge portion 19 of the band 17 is welded at 22 to the front edge portion of a cylindrical shell 25, the rear end portion of the shell 25 having at 26 a greater internal diameter

2

than the internal diameter of the remaining portion of the shell 25. The portion 26 terminates at its inner end in a shoulder 27. The portion 26 of the shell 25 has secured therein a plug 30 having a cylindrical outer surface 31. The plug is secured in the shell by any suitable means, such as screws or bolts 32 and rivets 33. The advance end of the plug 30 is dome-shaped, as shown at 34, and the rear end of the plug is recessed, as shown at 35. The rivets 33 are secured to the wall of the recessed portion 35.

A valve 36 is secured centrally in the plug 30, this valve comprising a tube 37 and a valve 38 which seats against the inner end of the tube and is held in seating position by means of a spring 39 which surrounds the valve stem 40. The outer end of the tube 37 is threaded and has secured thereto a cap 41.

Although one specific embodiment of the invention has been particularly shown and described it will be understood that the invention is capable of modification and that changes in the construction and in the arrangement of the various cooperating parts may be made without departing from the spirit or scope of the invention, as expressed in the following claim.

What I claim is:

A gas container shell having a seamless, pointed, front end portion, a cylindrical band welded to the rear end of said front end portion, bracket lugs secured to said band, a cylindrical shell welded to the rear end of said band, a plug secured in and closing the rear end of said cylindrical shell, said plug having a dome-shaped inner surface and an inlet valve mounted in said plug, the rear end of said plug being recessed and the valve being disposed in the recessed portion of the plug.

STANLEY KOPS.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
665,003	Haigh	Jan. 1, 1901
1,544,098	Mauran	June 30, 1925
1,605,225	Hartmann	Nov. 2, 1926
2,015,904	Marsh et al.	Oct. 1, 1935
2,027,136	Wood	Jan. 7, 1936
2,349,840	Babbitt	May 30, 1944
2,359,683	Sandberg	Oct. 3, 1944
2,462,204	Ludwig	Feb. 22, 1949

FOREIGN PATENTS

Number	Country	Date
488,534	Great Britain	July 8, 1938