

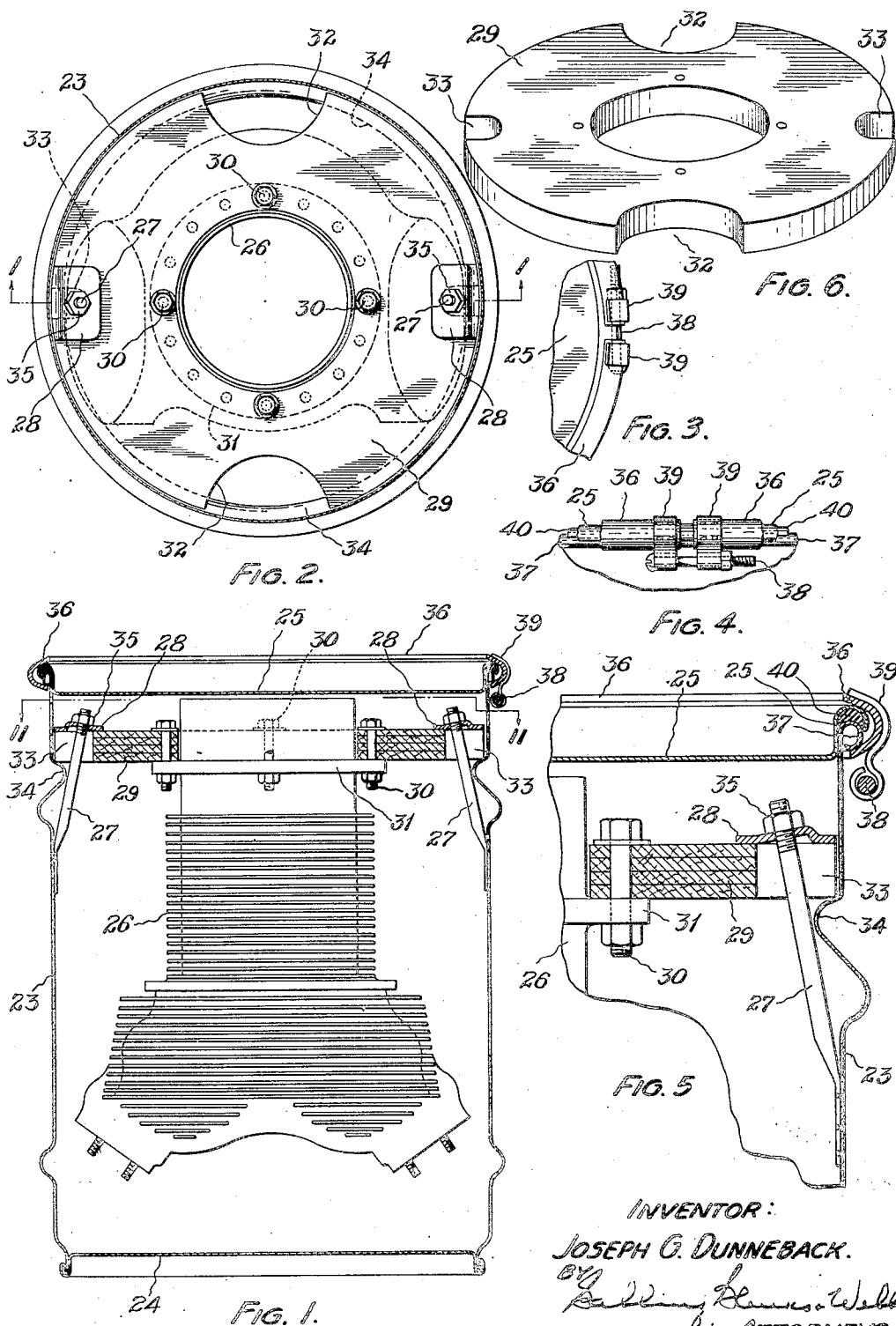
March 27, 1951

J. G. DUNNEBACK

2,546,923

SHIPPING CONTAINER WITH ARTICLE-SUPPORTING BASE

Filed Sept. 28, 1945



INVENTOR:  
 JOSEPH G. DUNNEBACK.  
 BY *William H. Wells*  
 ATTORNEYS.

## UNITED STATES PATENT OFFICE

2,546,923

## SHIPPING CONTAINER WITH ARTICLE-SUPPORTING BASE

Joseph G. Dunneback, Shaker Heights, Ohio, assignor to J. & L. Steel Barrel Company, Pittsburgh, Pa., a corporation of New Jersey

Application September 28, 1945, Serial No. 619,040

1 Claim. (Cl. 206—46)

1

This invention relates to shipping packages and is especially suitable for use in packing for shipment articles of great weight which must be firmly supported against damage such as might occur through rough handling.

One object of my invention is to provide a shipping package of such construction that the packaged article will be rigidly supported and firmly anchored therein.

Another object of my invention is to provide a shipping package comprising parts so arranged that not only will the article packed therein be more firmly supported and held against damage from rough handling than in the case of various other forms of packages, but the articles can, nevertheless, conveniently be incorporated within and removed from the container.

Other details, objects and advantages of the invention will become apparent as the following description of a present preferred embodiment thereof proceeds.

In the accompanying drawings I have shown a present preferred embodiment of the invention, in which

Figure 1 is a vertical cross-sectional view of a package and its contained article, taken on the line I—I of Figure 2, but with the cover in place;

Figure 2 is a horizontal cross-sectional view taken on the line II—II of Figure 1;

Figure 3 is a fragmentary plan view of a portion of the cover fastening device of Figure 1;

Figure 4 is a fragmentary face view thereof;

Figure 5 is a fragmentary vertical cross-sectional view to enlarged scale of a portion of the structure of Figure 1; and

Figure 6 is a perspective view of the article-supporting base of Figure 1.

I show a container 23 of drum-like form having a permanently attached lower end closure 24 and a removable cover 25 at its upper end. The package is here shown as carrying an airplane engine cylinder 26. Anchoring rods 27 are welded or riveted to the side walls of the drum 23 and are threaded at their upper ends to receive nuts that hold washers or anchoring plates 28 rigidly in place against the upper face of an article-supporting base 29. The article 26 is detachably connected to the base 29 by bolts 30 that extend through the base and

2

through a flange 31 that constitutes part of the cylinder 26. The circular portion of the base is apertured to receive an extension of the cylinder.

In assembling the parts the cylinder is first connected to the base 29 by the bolts 30. Thereupon, the base, together with the cylinder is lowered into the drum, the base being provided with cut-outs 32 in its edge that serve as handholds for the packer. As the base and cylinder are lowered into the drum, slots 33 in the edges of the base 29 will be kept in alignment with the anchoring rods 27. When the base has become seated upon a ribbed surface 34 on the internal wall of the drum the clamping plates 28 will be dropped into place and nuts 35 then applied to the rods 27 and drawn down tightly to securely anchor the base in place upon its seat 34.

The cover 25 will then be applied to the end of the container and a split ring 36 then placed in partially embracing relation with the curled edge of the lid 25 and a bead 37 formed on the upper edge of the drum body, as shown more clearly in Figure 5. A bolt 38 that extends through ears 39 on the ring 36 will then be tightened to contract the ring 36, thus tightly drawing the curled edge of the lid 25 against a rubber gasket 40.

The article-supporting base is positively held against displacement downwardly or inwardly of the container, since the internal rib 34 affords the necessary firm support.

The term "drum" is employed herein largely as a matter of convenience; the casing or container shell need not necessarily be of cylindrical contour.

While I have shown and described a present preferred embodiment of the invention it is to be distinctly understood that the invention is not limited thereto but may be otherwise variously embodied within the scope of the following claim.

I claim:

A shipping container comprising a container body, heads closing the body at opposite ends, an article-supporting base, a seating device on the inner wall of the body intermediate the heads serving as a seat for the base, anchoring rods secured to the inner wall of the body and intersecting the plane of the base, the rods extending through slots formed in the edges of the base,

plates at the face of the base remote from the points at which the rods are secured to the container wall overlying the slots and nuts threaded on the rods for holding the plates on the base and the base on its seat.

JOSEPH G. DUNNEBACK.

REFERENCES CITED

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

UNITED STATES PATENTS

| Number  | Name  | Date          |
|---------|-------|---------------|
| 306,791 | Walsh | Oct. 21, 1884 |
| 417,667 | Crary | Dec. 17, 1889 |

| Number    |
|-----------|
| 430,431   |
| 785,505   |
| 1,010,315 |
| 1,140,414 |
| 1,199,311 |
| 1,447,513 |
| 1,792,715 |
| 2,052,489 |
| 2,137,293 |
| 2,215,537 |
| 2,300,259 |
| 2,370,749 |
| 2,379,053 |
| 2,459,400 |

| Name        | Date           |
|-------------|----------------|
| Milsted     | June 17, 1890  |
| Love        | Mar. 21, 1905  |
| Puff        | Nov. 28, 1911  |
| Steel       | May 25, 1915   |
| Sheehan     | Sept. 26, 1916 |
| Helmond     | Mar. 6, 1923   |
| Steinharter | Feb. 17, 1931  |
| Purdy       | Aug. 25, 1936  |
| Johnson     | Nov. 22, 1938  |
| Bjong       | Sept. 24, 1940 |
| Kueppers    | Oct. 27, 1942  |
| Perkins     | Mar. 6, 1945   |
| Weingart    | June 26, 1945  |
| Williams    | Jan. 18, 1949  |