Feb. 17, 1948. T. L. I. CARLSON 2,436,289

PARTS RACK

Filed March 28, 1946

FIG. 2.

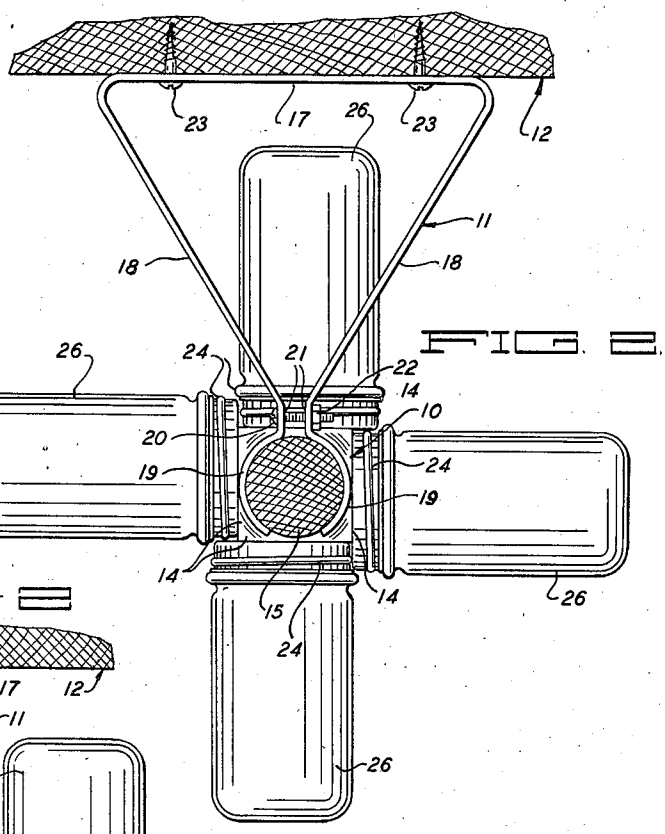
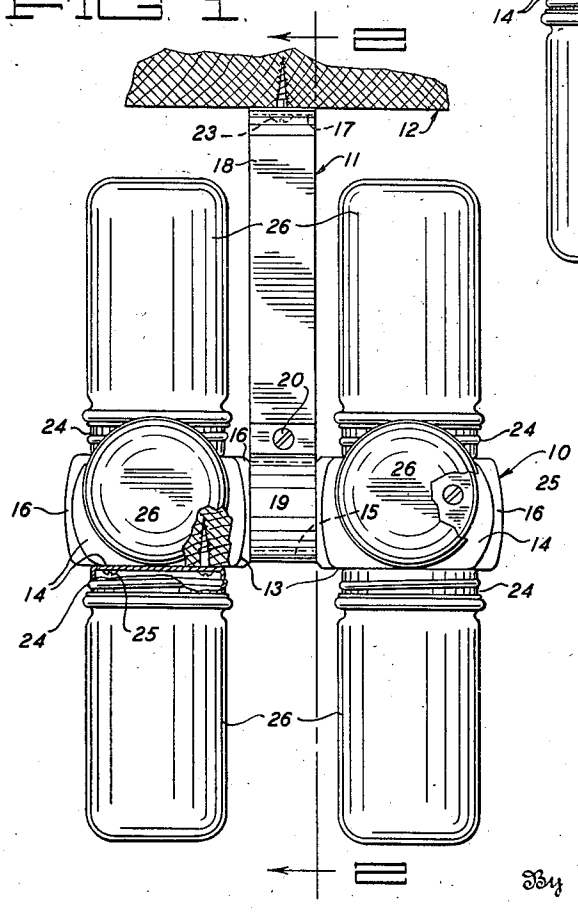


FIG. 1.



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PARTS RACK

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8 Claims. (Cl. 211—77)

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This invention relates to an improved rack or storage means for small parts such as screws, bolts, nuts and the like.

The proper storage and segregation of small parts of this nature in the workshop has long been a problem, and particularly so where space is at a premium. It is very desirable that such parts be stored so that they cannot possibly become mixed and so that they are readily visible and convenient of access, and one of the best of such arrangements thus far worked out has been the storage of the parts in transparent glass jars with screw caps. By then fastening the caps to the underside of a shelf or other support the parts are readily seen and a jar removed when desired to extract parts therefrom. However, since only a single row of such jars are visible a considerable shelf length is required to store the large variety of small parts usually found about the shop, and the installation of course requires some time and work.

It is the primary object of my invention to provide a storage rack wherein a plurality of jars are supported about a rotary axis and may be readily moved to position for inspection or removal of parts, and all in such manner as to place the largest possible number of jars in the smallest possible space. Another object is to provide a parts rack of simple, inexpensive and neat form.

These and other more detailed and specific objects will be disclosed in the course of the following specification, reference being had to the accompanying drawings, in which—

Fig. 1 is an elevational view of my improved parts rack fastened to an overhead support, and with parts broken away to disclose certain details of the construction.

Fig. 2 is a sectional view along the line 2—2 in Fig. 1.

Referring now more particularly and by reference characters to the drawing, my improved parts rack comprises a rotary member or rotatable support indicated generally at 10, and a fixed support or bracket 11 by which the rack may be secured beneath a shelf 12 or other support surface, such as a wall, ceiling or the like.

The rotary member has ends 13 of square cross section forming at each end four mounting surfaces 14, and between said ends the center of the member is turned round forming a trunnion or pivot portion 15. This member 10 may be readily and inexpensively made of wood and with the extremities of the squared ends 13 turned off nicely,

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as indicated at 16, will be neat and attractive in appearance.

The bracket 11 is made of strap metal bent to form a base or mounting portion 17 from which projects converging arms 18 terminating in arcuate fingers or bearing portions 19. The curvature of these fingers 19 is such that they will nicely receive and embrace the trunnion portion 15 of the rotary member 10, and a frictional grip may be obtained upon said trunnion by means of a screw 20 passed through parallel portions 21 of the arms 18, adjacent the fingers, and provided with a nut 22. The base portion 17 of the bracket is apertured to pass screws 23 by which the bracket is affixed to the support 12. The width of the bracket is such that the fingers 19 will engage the full length of the trunnion portion 15 preventing endwise play of the rotary member 10.

Ordinary screw covers or tops 24 are secured to the rotary member's ends 13, one upon each surface 14, by means of screws 25. Thus eight of such covers are used and it will be noted that they are offset with respect to the centers of the surfaces 14 (Fig. 2) all in the same direction to provide the maximum of compactness of the assembly. It is, of course, the flat tops of said covers 24 that are fastened down and thus their threaded rims are exposed so that an ordinary transparent glass jar 26, or equivalent, may be readily screwed into each cover.

The jars 26 thus are supported in two rows, and generally radially with respect to the rotary axis of the member 10, and so that by rotating the member in the bracket 11, any selected jar may be brought down to a depending or bottom position and there readily unscrewed to remove or replace small parts in the jar. Inspection of the contents of all the jars may be made also by rotating the assembly, and the screw 20 may be adjusted so that, while it is easy to turn, the rack will stay in any position to which it is adjusted. It will be apparent that the rack permits the segregation and storage of a great number of different parts in a comparatively small space and in a neat and practical manner.

It is understood that suitable modifications may be made in the structure as disclosed, provided such modifications come within the spirit and scope of the appended claims. Having now therefore fully illustrated and described my invention, what I claim to be new and desire to protect by Letters Patent is:

1. In a rack for supporting jars of small parts, the combination including a rotary support having square ends and a rounded center portion,

a jar cover secured against each flat surface of the square ends of the members and adapted to threadedly engage and support a jar, and a bracket having a mounting portion adapted to be secured to a rigid support and a portion for rotatably engaging the rounded center portion of the member.

2. In a rack for supporting jars of small parts, the combination including a rotary support having square ends and a rounded center portion, a jar cover secured against each flat surface of the square ends of the members and adapted to threadedly engage and support a jar and a bracket having a mounting portion adapted to be secured to a rigid support and curved finger portions for rotatably embracing the rounded center portion of the member.

3. In a rack for supporting jars of small parts, the combination including a rotary support having square ends and a rounded center portion, a jar cover secured against each flat surface of the square ends of the members and adapted to threadedly engage and support a jar, a bracket having a mounting portion adapted to be secured to a rigid support and a portion for rotatably engaging the rounded center portion of the member, and means for adjustably constricting the portion of the bracket engaging the rounded center portion of the member to thereby frictionally hold the member in adjusted positions.

4. A rack of the character described for supporting jars of small parts, comprising a member having a rounded trunnion portion and end portions having flat sides adapted to support jar covers secured thereto and adapted to engage said jars, a bracket member having a mounting portion for fastening to a supporting surface and arms extending therefrom in converging relation and provided at their extremities with means for rotatably engaging and supporting the said trunnion portion of the member.

5. A rack of the character described for supporting jars of small parts, comprising a member having a rounded trunnion portion and end portions having flat sides adapted to support jar covers secured thereto and adapted to engage said jars, a bracket member having a mounting portion for fastening to a supporting surface and arms extending therefrom in converging relation

and provided at their extremities with arcuate fingers for rotatably engaging the trunnion portion of the said member, and a screw connecting the arms adjacent said fingers to draw the fingers into adjustable frictional engagement with said trunnion portion.

6. In a parts rack of the character described for supporting parts jars, a rotary support having a rounded center portion, means on opposite ends of the said center portion for threaded engagement with the jars to support the jars, and a bracket member having arcuate portions for frictionally and rotatably engaging and supporting the rounded center portion of the rotary support.

7. A parts rack of the character described for supporting jars of small parts, comprising a rotary support member having a rounded center journal portion and means at opposite ends for detachably engaging the ends of the jars, and a bracket adapted to be secured to a support and having arcuate portions adapted to rotatably and frictionally engage the rounded journal portion of the said support member, and means for adjustably tensioning the arcuate bracket portions on the said journal portion.

8. A parts rack of the character described for supporting jars of small parts, comprising a rotary support member having a rounded center journal portion and means forming multi-sided end portions adjacent the journal portion and having annular threaded elements on said sides for detachably engaging and supporting the said jars, and a bracket having a portion for mounting on a support and another portion for rotatably engaging the said journal portion.

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REFERENCES CITED

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

UNITED STATES PATENTS

Number	Name	Date
141,064	McMahon	July 22, 1873
1,008,905	Herscobitz	Nov. 14, 1911
1,732,131	Mahaffey	Oct. 15, 1929
1,759,140	Silberger	May 20, 1930
2,339,564	Goldberg et al.	Jan. 18, 1944