

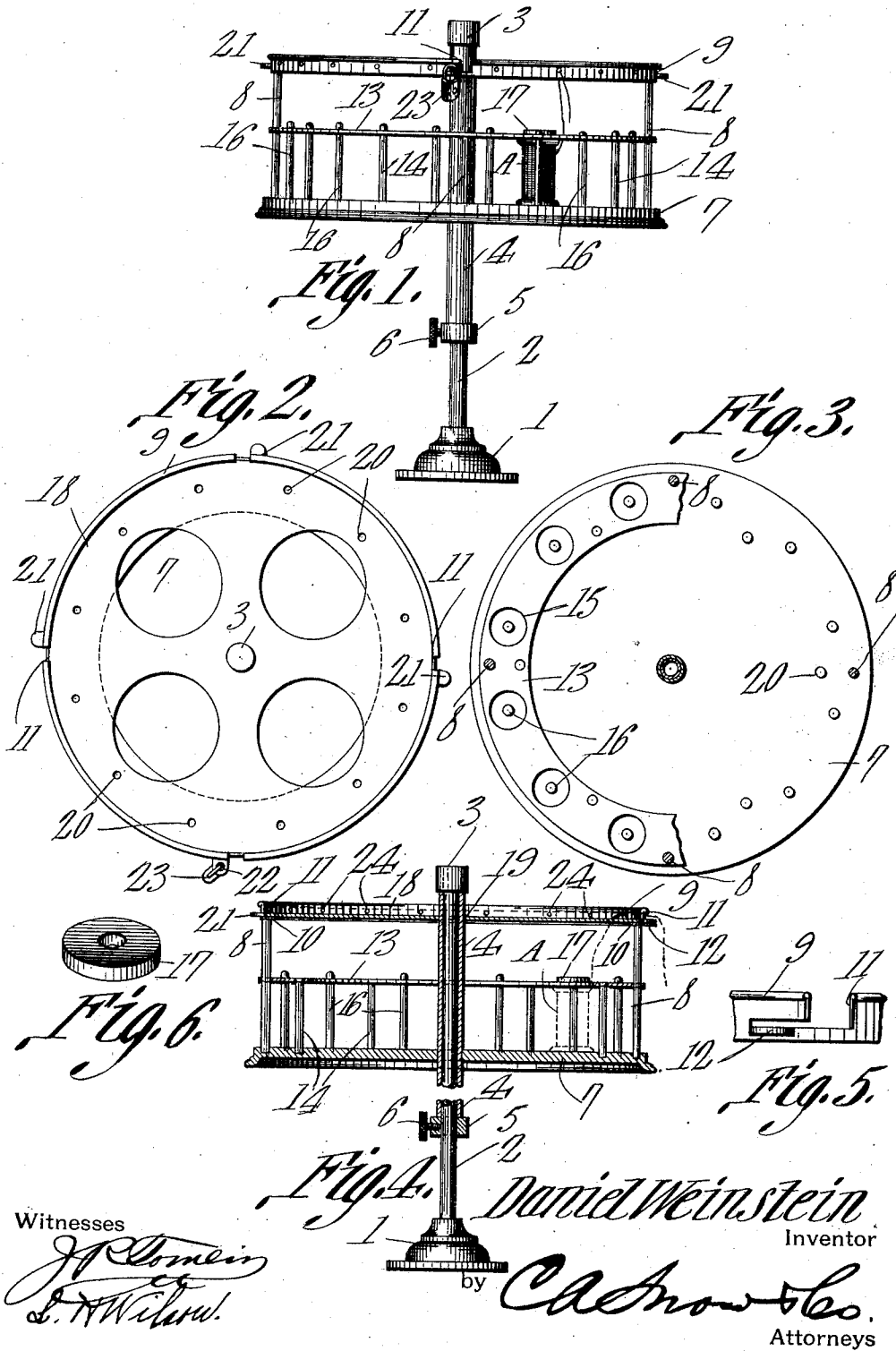
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SPOOL HOLDER.

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1,043,491.

Patented Nov. 5, 1912.



UNITED STATES PATENT OFFICE.

DANIEL WEINSTEIN, OF SAN FRANCISCO, CALIFORNIA.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, DANIEL WEINSTEIN, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented a new and useful Spool-Holder, of which the following is a specification.

This invention relates to spool holders and its object is to provide a device of this character capable of holding a number of spools any one of which can be brought to position where it can be easily reached.

A further object is to provide a spool holder having means for locking the spools therein without, however, interfering with the unwinding of thread from the spools.

A further object is to provide improved means for holding the spools in position within the structure and for preventing them from jumping upwardly when subjected to sudden jerks.

A further object is to provide a holder which can be easily rotated and which can be adjusted vertically.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

In the accompanying drawings the preferred form of the invention has been shown.

In said drawings:—Figure 1 is a front elevation of the holder, a single spool being shown in position therein. Fig. 2 is a plan view. Fig. 3 is a horizontal section through the holder, the guide ring being partly broken away. Fig. 4 is a central vertical section through the holder. Fig. 5 is an enlarged elevation of a portion of the rack and showing the bayonet slot therein. Fig. 6 is a perspective view of one of the spool holding weights.

Referring to the figures by characters of reference 1 designates a base adapted to be fastened in any suitable manner to a table or other supporting structure and this base has a stem 2 projecting upwardly therefrom, and provided, at its upper end, with a head 3. A tube 4 is mounted to rotate on the stem and is supported by an adjustable collar 5 having a set screw 6 whereby said collar can

be secured at any desired point upon the stem 2. Tube 4 extends through the center of the rack portion of the holder and is formed with or secured to the base disk 7 of the rack. Posts 8 extend upwardly from the base disk adjacent the periphery thereof and at desired intervals apart, these posts connecting said base disk to the top ring 9 which has an inwardly directed flange along the lower edge thereof, as indicated at 10. The posts 8 are preferably connected to this flange. It will thus be seen that the ring 9, post 8 and base disk 7 form a rigid frame. Bayonet slots 11 are formed within the upper edge portion of the ring 9 at desired distances apart, and an apertured ear 12 extends outwardly from the ring 9 at a point under one of these bayonet slots, and is for the purpose hereinafter set forth.

A guide ring 13 is interposed between and fixed relative to the ring 9 and the base disk 7 and its outer peripheral portion is supported by the post 8 while its inner edge portion is supported by a series of short posts 14 extending from the ring down to the disk 7. Circular openings 15 are formed within the ring 13 at regular intervals and guide stems 16 are fixedly connected to the disk 7 and extend upwardly into these openings 15 at the centers thereof. Each of these stems is adapted to hold a spool, such as indicated by dotted lines at A in Fig. 4 and each stem 16 is of such length as to project above the spool thereon so as to be loosely engaged by a circular weight 17 adapted to rest upon the spool and prevent it from jumping upwardly.

A circular top plate 18 is adapted to be inserted into the ring 9 and onto the inwardly directed flange 10, this top plate having a central opening 19 for the reception of the upper end of the stem 2 and being provided with an annular series of small thread receiving openings 20 located above the series of stems 16. This plate 18 has tongues 21 extending radially therefrom and said tongues are adapted to enter the bayonet slots 11 so that, when the plate 18 is rotated, the tongues will shift laterally within the bayonet slots and thus prevent the plates from being lifted off of the rack. One of the tongues 21 has an opening 22 therein adapted to register with the opening in the ear 12, the registering openings being designed to receive a lock 23. Obviously, when the tongue is thus fastened to the ear

12, it is impossible to detach the plate 18 from the rack and, therefore, access cannot be had to the spools for the purpose of removing them from the rack. It is to be understood, of course that the distance between the upper ends of the stems 16 and the plate 18 is less than the length of the spools, and, therefore, the spools when lifted along the stem 16 will come against plate 18 without, however, leaving the stems. Ring 9 has openings 24 arranged adjacent the openings 20 and adapted to receive thread.

In using the device herein described, the spools to be used are placed on the stems 16 and the weights 17 are then placed on the upper ends of the stems so as to be supported by the spools. Plate 18 is secured upon the rack in the manner hereinbefore described after which the ends of the threads on the spools are carried upwardly through the openings 15 and 20 and thence outwardly through the openings 24 so that said ends will hang down from the upper portion of the rack where they can be easily grasped. Should it be desired to use a thread which is not directly in front of the person using the holder, said holder can be rotated about the stem 2 as an axis until the proper spool is brought within reach. As the threads lie within the respective openings 15 they are prevented from becoming entangled at points between the spools inasmuch as rings 13 serve to support the slack portions of the threads below the top plate 18.

It will be apparent that by employing weights 17, the spools will be prevented from jumping upwardly when the threads are suddenly jerked and the danger of tangling the threads is thus materially reduced.

What is claimed is:—

1. A spool holder including a disk mounted for rotation, posts thereon, a top ring supported by the posts and having thread receiving openings, there being an inwardly directed flange on the ring, a guide ring interposed between the disk and top ring and supported by the posts, there being

spool receiving openings within the guide ring, spindles upstanding from the disk and projecting through the openings in the guide ring, and a top plate insertible into the top ring and onto the flange, there being thread receiving openings in the top plate.

2. A spool holder including a disk mounted for rotation, posts thereon, a top ring supported by the posts and having thread receiving openings, there being an inwardly directed flange on the ring, a guide ring interposed between the disk and top ring and supported by the posts, there being spool receiving openings within the guide ring, spindles upstanding from the disk and projecting through the openings in the guide ring, a top plate insertible into the top ring and onto the flange, there being thread receiving openings in the top plate, slots within the top ring, tongues extending radially from the top plate and insertible into the slots, and means for securing one of the tongues to the ring to hold the plate against removal from the ring.

3. A spool holder including a stem, a sleeve mounted for rotation thereon, a disk fixedly connected to and revoluble with the sleeve, posts upstanding from the peripheral portion of the disk, a top ring fixedly mounted on the post, there being an inwardly directed flange integral with the ring, a top plate removably mounted on said flange and extending loosely around the tube, a guide ring interposed between the disk and the top ring and supported at its outer edge by the posts, there being spool receiving openings within the guide ring, and spindles extending upwardly from the disk and centered within said openings.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

DANIEL WEINSTEIN.

Witnesses:

SOL WOLFF,
REUBEN SIDEMAN.