July 28, 1964 A. J. CICCO 3,142,128

REFERENCE COPY HOLDER

Filed June 3, 1963

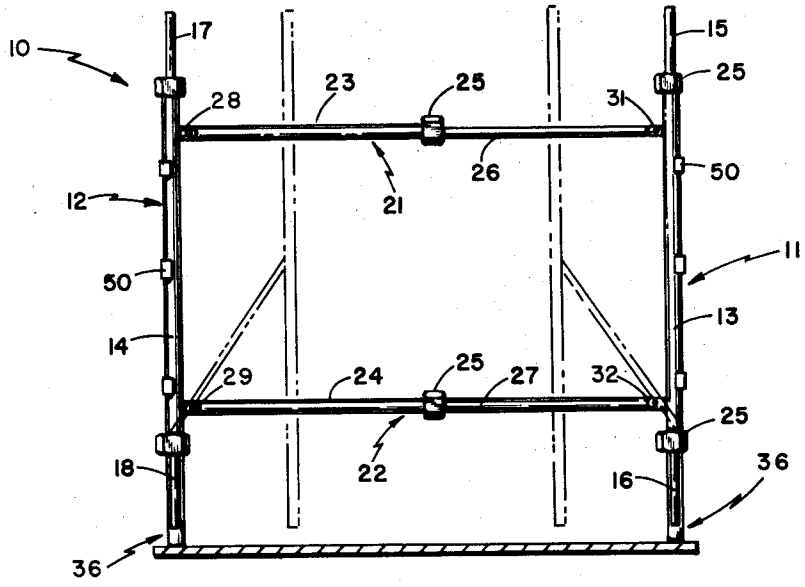



Fig 1

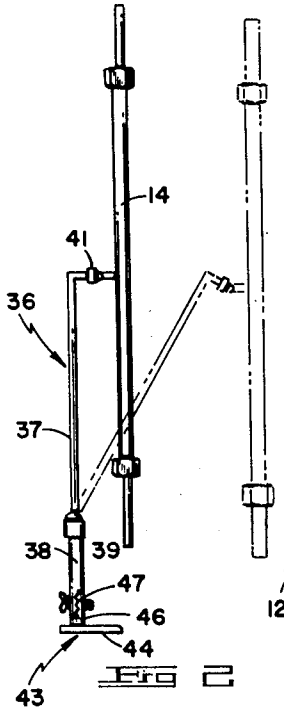



Fig 2

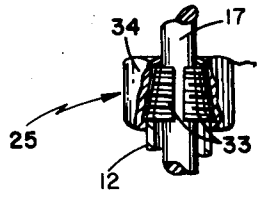



Fig 4

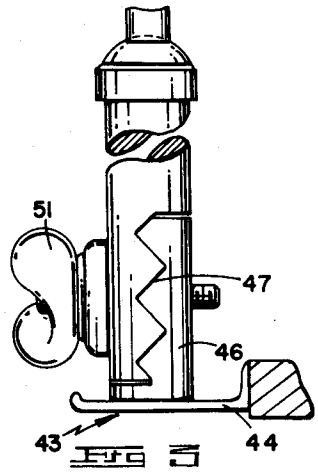



Fig 3

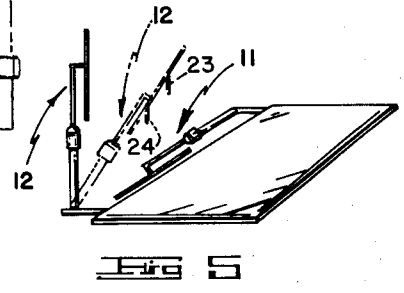



Fig 5

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# REFERENCE COPY HOLDER

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This invention relates to a device for conveniently holding reference copy and, in particular, to a reference copy holder which is adjustable to accommodate various sizes of copy and adjustable with respect to a working surface.

Typically, artists, designers, and draftsmen make use of a drafting table or other flat surfaces for performing their duties. Very often there is a need to refer to some previously prepared reference copy; i.e., sketches, drawings, and etc. Heretofore, reference copy was often mounted to a convenient wall or taped to table lights and adjoining work surfaces. There was a need for a versatile copy holder which would greatly facilitate withdrawal of reference material.

It is an object of the invention to provide an effective means for holding reference copy material above a working surface.

It is another object of the invention to provide a reference copy holder which may be used to accommodate a wide variety of reference copy sizes and may be adjusted to an optimum position over a working surface in a simple and facile manner.

It is yet another object of the invention to provide a reference copy holder that may be stored conveniently in and about a working surface.

It is still another object of the invention to provide a reference copy holder which uses widely available materials in a highly simplified structure.

In accordance with the invention, a reference copy holder comprises first and second tubular assemblies each of which includes a central tube with concentric telescoping means inserted in the ends thereof. Telescoping lateral linkages joined to the central tubes are provided for maintaining the aforementioned tubular assemblies in an adjustable spaced relationship. The combination of tubular assemblies and lateral linkages form a mounting framework. The reference copy holder includes support means connectable to a work surface and these connected to the central tubes for maintaining the tubular assemblies above the work surface. Adjustable joints are provided between the support means and the central tubes for placing the mounting framework in a wide variety of positions relative to the working surface.

The novel features that are considered characteristic of the invention are set forth in the appended claims; the invention itself, however, both as to its organization and method of operation, together with additional objects and advantages thereof, will best be understood from the following description of a specific embodiment when read in conjunction with the accompanying drawings, in which:

FIGURE 1 is a front view of a reference copy holder embodying the principles of the present invention;

FIGURE 2 is a side view of the FIGURE 1 reference copy holder;

FIGURE 3 is a fragmentary view showing details of joints;

FIGURE 4 is a fragmentary view of a tapered lock; and

FIGURE 5 is a perspective view illustrating the storing capabilities of the FIGURE 1 reference copy holder.

Referring to FIGURE 1 of the drawings, there is shown a reference copy holder **10** embodying the principles of the present invention. The reference copy holder **10** comprises first and second tubular assemblies **11** and **12**. Each of the tubular assemblies comprises a central tube **13** and **14** with concentric telescoping means, such as



rods (or tubes) **15**, **16**, **17**, and **18** inserted in the ends of the central tubes **13** and **14**.

The exposed length of rods **15** through **17** are adjusted by means of tapered locks **25** which, conventionally, comprise split tapered ends **33** and complementary tapered nuts **34**. When a nut **34** is tightened, the tapered ends **33** are brought to bear against a rod, securing the rod in position. When the tapered nut **34** is loosened, the tapered end **33** separates releasing its hold on a rod.

The reference copy holder **10** also includes, preferably, a pair of telescoping lateral linkages **21** and **22**. Each telescoping linkage includes a tube such as at **23** and **24** in which is inserted a sliding member such as rods (or tubes) **26** and **27**. The opposing free ends of the tubes **23** and **24** and the rods **26** and **27** are hinged to the central tubes **13** and **14** as indicated in FIGURE 1 by means of hinges **28**, **29**, **31**, and **32**, respectively. The relative movement between the tubes **23** and **24** and their respective rods **26** and **27** are controlled by means of a tapered lock **25**. The tubular assemblies **11** and **12** in combination with the lateral linkages **21** and **22** form a mounting framework.

Referring to FIGURE 1 of the drawings, it is seen that the reference copy holder includes two support means **36**. Each support means **36** (see FIGURE 2) comprises an upper elongated linkage **37** and a lower elongated linkage **38** joined by a ball joint **39**. A free end of the upper member **37** is connected to the central tube **14** by means of a ball joint **41**.

Mounting means **43** for securing the reference copy holder **10** to a drafting board or other fixed member includes a channel **44** and a normal member **46**, the upper end of which forms one-half of a swivel lock **47** (see FIGURE 3). A complementary portion of the swivel lock **47** is formed at one end of each lower linkage **38**. In a conventional manner, the swivel lock is assembled by means of a wing nut **51**.

Reference copy is secured to the mounting frame by any suitable means, spring clips **50** for example.

Although the operation of the reference copy holder **10** is clear from the foregoing description of the construction, a typical adjustment will be described. An adjustment to accommodate the width of a piece of reference copy material is made by loosening the tapered locks **25** interconnecting sleeves **23** and **24** with rods **26** and **27**. This action permits the relative movement between sleeves **23** and **24** and rods **26** and **27**. When the desired width is achieved, the tapered locks **25** are tightened to maintain the desired width.

In a similar way, adjustment to accommodate the height of the reference copy material is made by first loosening the upper and lower tapered locks **25** on the central tubes **13** and **14** and sliding the rods **15–18** relative to their respective central tubes **13** and **14**. When a proper height adjustment is achieved, the tapered locks **25** are tightened.

To move the mounting framework over the work surface, it is merely necessary to pull the mounting framework forward. The upper linkage **37** moves relative to the lower linkage **38** through the ball joint **39**. Note the phantom outline in FIGURE 2. The mounting framework may be pivoted about the ball joint **41** to provide a suitable viewing angle.

In the event it is desired to disassemble the reference copy holder and to store it substantially out of sight, it is merely necessary to loosen the tapered locks **25** on the lateral linkages **21** and **22** and disengaging sleeves **23** and **24** from rods **26** and **27**, respectively. The sleeves **23** and **24** and rods **26** and **27** will then pivot about the hinges **28**, **29**, **31**, and **32** aligning themselves substantially parallel with the tubular assemblies **11** and **12**. Upon loosening the wing nut **51** on the swivel lock **47**, the tubu-

lar assemblies may be rotated so that they are folded into the channel 44 as indicated in FIGURE 4.

From the foregoing, it is quite obvious that the novel construction and operation discussed above results in a reference copy holder which may be adjusted to accommodate reference copy, the sizes of which vary over wide limits. It is also quite obvious that the mounting framework holding the reference copy material may be moved and adjusted in a simple manner to accommodate optimum viewing requirements. The construction also lends itself to being conveniently stored.

The various features and advantages of the invention are thought to be clear from the foregoing description. Various other features and advantages not specifically enumerated will undoubtedly occur to those versed in the art, as likewise will many variations and modifications of the preferred embodiment illustrated, all of which may be achieved without departing from the spirit and scope of the invention as defined by the following claims.

I claim:

1. A reference copy holder comprising:
(*a*) first and second tubular assemblies including a central tube with concentric telescoping means inserted in the ends of said central tube;
(*b*) telescoping lateral linkages joined to said central tubes for maintaining said tubular assemblies in an adjustable spaced relationship;
(*c*) support means connectable to a fixed member connected to said central tubes for maintaining said tubular assemblies above the fixed member; and
(*d*) means adapted for securing the reference copy means to said central tubes.

2. A reference copy holder as described in claim 1 in which said support means is joined to said central tubes by a joint to effect an adjustable support for said tubular assemblies.

3. A reference copy holder as described in claim 2 in which said support means further includes a second pivotable joint in an intermediate location.

4. A reference copy holder comprising:
(*a*) first and second tubular assemblies including a central tube with concentric telescoping means inserted in the ends of said central tube;
(*b*) first and second telescoping linkages interconnecting said central tubes for maintaining said tubular assemblies in an adjustable spaced and parallel relationship thereby forming a mounting framework adjustable in two directions;
(*c*) support means connectable to a fixed member connected to said central tubes for maintaining said tubular assemblies above the fixed member; and



(*d*) means adapted for securing the reference copy means to said mounting framework.

5. A reference copy holder comprising:
(*a*) first and second tubular assemblies including a central tube with concentric telescoping means inserted in the ends of said central tube;
(*b*) first and second telescoping linkages interconnecting said central tubes for maintaining said tubular assemblies in an adjustable spaced and parallel relationship thereby forming a mounting framework adjustable in two directions;
(*c*) support means comprising elongated members having a pivotable joint at an intermediate point, one end of said elongated members adapted to be secured to a fixed member, and the other end of said elongated member being connected to a central tube by a second pivotable joint; and
(*d*) means adapted for securing the reference copy means to said mounting framework.

6. A reference copy holder as described in claim 5 in which said pivotable joints are ball joints.

7. A reference copy holder as described in claim 5 in which said telescoping means and said telescoping lateral linkages include locking means for preventing relative movement of otherwise movable parts of said telescoping means and said telescoping lateral linkages.

8. A reference copy holder comprising:
(*a*) a mounting framework comprising coplanar telescoping members forming a quadrilateral, said telescoping members having adjustable lengths for varying the length and width of the quadrilateral;
(*b*) support means connectable to a fixed member connected to said central tubes for maintaining said tubular assemblies above the fixed members; and
(*c*) means adapted for securing the reference copy means to said central tube.

9. A reference copy holder as described in claim 8 in which adjacent telescoping means of said mounting framework are joined by pivotable joints for rotating one telescoping means parallel to an adjacent telescoping means. scoping means.

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