April 23, 1929. A. NIFLOT 1,710,377

SUN PROTECTOR

Filed May 26, 1927

Fig. 1.

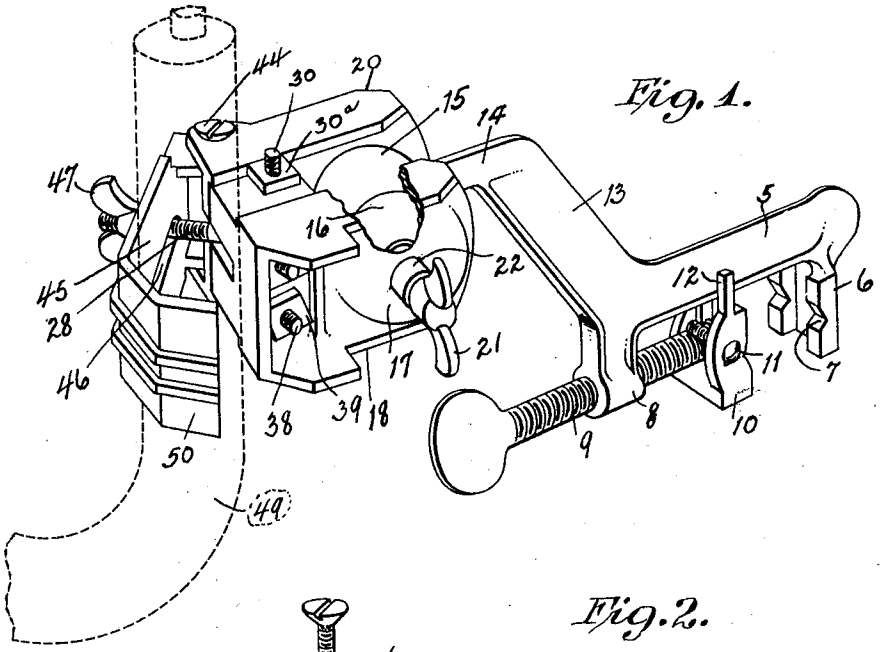
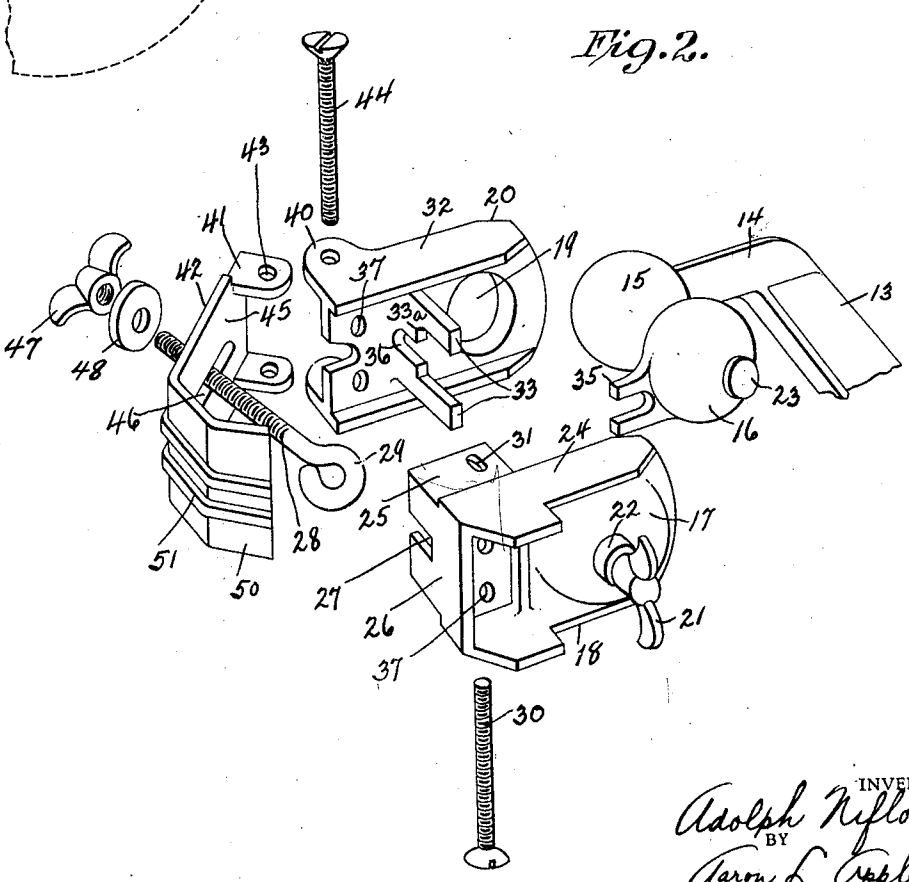


Fig. 2.



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Patented Apr. 23, 1929. 1,710,377

UNITED STATES PATENT OFFICE.

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SUN PROTECTOR.

Application filed May 26, 1927. Serial No. 194,273.

This invention relates to a sun protector and more particularly to a novel and improved means for adjustably supporting the handle of an umbrella or shade in any desired angular position from the back of a chair, rocker or bench.

One of the objects of my invention is to provide a bracket constructed and arranged to receive an adjustable block including a universal joint connection whereby said block and a clamping arm may be moved to any desired angular position with respect to a chair or seat for instance to which the device is attached.

A further object of my invention is to provide a device of the above character capable of a multiplicity of uses and comprising a stationary bracket constructed and arranged for connection to an object such as the back of a chair, rocker or bench, said bracket having a globular terminal and a sectional block or casting capable of adjustment to any angular position relative thereto and a hinged clamping arm for retaining the handle of an umbrella or shade.

To enable others skilled in the art to more fully comprehend the underlying features of my invention that the same may be more easily understood, reference is had to the accompanying drawing showing a preferred embodiment wherein

Fig. 1 is a perspective view.

Fig. 2 is an exploded view of the parts and their relative position for assembly.

Referring now to the drawings wherein like reference characters designate corresponding parts throughout the views, 5 designates the bracket body having a flanged stationary jaw 6 at one end, said jaw being provided with notches 7 which assist in clamping and gripping an object to which the device is to be attached. The bracket body is also formed with a depending sleeve 8 internally threaded to receive a clamping screw 9. The clamping screw carries a movable jaw 10 at its inner end, said jaw being retained by a threaded screw and nut 11 which also permits the jaw to loosely rock or pivot so as to engage any irregular surface or object such as the back of a chair, rocker or other article of furniture to which the device is to be connected. The movable jaw is in the form of a yoke, the vertical arms 12 of which straddle the lower portion of the body 5 and along which it is guided when the clamping screw is rotated. The said movable jaw therefor is capable of adjustment between the threaded sleeve and the stationary jaw to support the device under various conditions.

The bracket body 5 is preferably integral with an angular extension 13 and a straight portion 14 which is parallel to the said body, said portion 14 terminating in a sphere or ball 15 forming one of the elements of a spherical bearing. The sphere or ball 15 of the bracket is adapted to be held within a semi-spherical clamping socket 16 seated within a hollow depression 17 of a section 18 of a block or casting, the opposite surface of the sphere or ball being seated within a circular recess 19 in the opposite section 20 of the said block or casting. A threaded thumb screw 21 passes through a threaded sleeve 22 and bears against the flat surface 23 of the semi-spherical socket thus clamping the block or casting in an adjustable position on the globular end of the bracket.

The section 18 of the block or casting is provided with top and bottom flanges 24 and inwardly extending ears 25. The rear wall 26 is slotted as at 27 for the passage of the threaded shank portion 28 of an eye bolt 29, said eye bolt being held by the vertical screw 30 and nut 30[a] extending through aligned apertures 31 in the ears 25.

The opposite section 20 of the block or casting is also formed with top and bottom flanges 32 and inner spacing lugs 33 which maintain the sections in parallelism and afford sufficient space therebetween for the passage of the straight portion 14 of the bracket. The lugs 33 are cut to provide shoulders 33[a] for the yoke shaped extension 35 of the semi-spherical socket which prevent its rotation relative to the sections of the block and between the lugs is a U-shaped slot 36 which permits of the clearance of the eye portion of the eye bolt. The rear walls of each of the sections constituting the block are provided with aligned apertures 37 for threaded screws and nuts 38, 39 which fasten and retain the two sections together, said screws being located so as not to interfere with the threaded eye bolt above referred to. It will thus be seen that while the sections are locked together, the block is capable of movement as a unit to any angular position relative to the ball of the sphere on the end of the bracket and that by tightening the threaded thumb screw the block may be held in its adjusted position in the desired angle.

The top and bottom flanges of the section 20 of the block are provided with lateral ears 40 which cooperate with the ears 41 of a hinged clamping plate 42, said ears having aligned apertures 43 for the passage of a screw 44 held by a suitable nut. The straight wall portion 45 of the clamping plate is slotted as at 46 for the passage of the extended shank portion of the threaded eye bolt, which plate is adapted to be clamped by a thumb nut 47 and washer 48 against the handle of an umbrella or shade 49, it being further noted that the outer end of the clamping plate is bent inwardly as at 50 to prevent the separation of the handle when in its clamped position. The clamping plate is reenforced by outer ribs 51 which prevents its fracture when considerable pressure is brought to bear as when gripping an object such as a handle above referred to. Since the clamping plate is hingedly connected to and supported by the sectional block, it will be seen that any adjustment of the block will correspondingly adjust the angular relation of any object held between the end of the block and the clamping plate. The spherical connection which is in the nature of a universal joint permits of the widest possible range of adjustments after the object is held in its clamped position by merely loosening the thumb nut and moving the block relative to the globular end of the bracket.

While I have shown and described my invention with some degree of particularity, I realize that various changes and alterations in the details of the construction may be resorted to. I therefore reserve the right to make such changes, modifications, and alterations in the details as may fairly fall within the scope of the subject matter now being claimed.

I claim:

1. A device of the class described comprising a bracket having a stationary and a movable clamping jaw for attachment to a flat or circular object, a spherical body formed on the end of said bracket and offset from the said jaws, a sectional interlocking block having a semi-spherical socket within said block carried by and arcuately adjustable on said spherical body and a pivoted clamping plate connected to one section of the said block.

2. A device of the class described comprising a bracket having a stationary and a movable clamping jaw for attachment to a flat or circular object, an angular extension having a spherical body at one end thereof formed with said bracket, a sectional block enclosing said spherical body, a semi-spherical clamping socket within said block engaging said body, fastening means for adjustably locking said block on said body in any arcuate position and a pivoted clamping plate connected to one section of the block.

3. A device of the class described comprising a bracket having a stationary and a movable clamping jaw for attachment to a flat or circular object, an angular extension having a spherical body at one end thereof formed with said bracket, a sectional block mounted on said body, a semi-spherical socket seated within a depression in one section of the block, a thumb nut for locking the socket and spherical body between the sections of the block, a pivoted clamping plate having a central slot connected to one section of the block, an eye bolt passing through the clamping plate and between the said block sections and means for fastening said clamping plate in position about an object to be supported.

4. A device of the class described comprising a bracket having a stationary and a movable clamping jaw for attachment to a flat or circular object, an angular extension having a spherical body at one end thereof formed with said bracket, a sectional block enclosing said spherical body, one section of said block having spacing lugs for maintaining the sections in parallelism, fastening means connecting the sections of the block, a semi-spherical socket member seated within one of the sections and engaging the spherical body, said socket having a yoke shaped extension lying between the lugs to prevent said socket from rotating, a thumb screw for locking the socket and spherical body between the block sections, a pivoted clamping plate connected to one of the sections and a threaded eye bolt having fastening means for clamping the said plate in position about an object to be supported.

In testimony whereof I affix my signature.

ADOLPH NIFLOT.