

J. WIEDEMEIER, JR. & A. A. WIEDEMEIER.

DISPLAY APPARATUS.

APPLICATION FILED FEB. 5, 1908.

903,253.

Patented Nov. 10, 1908.

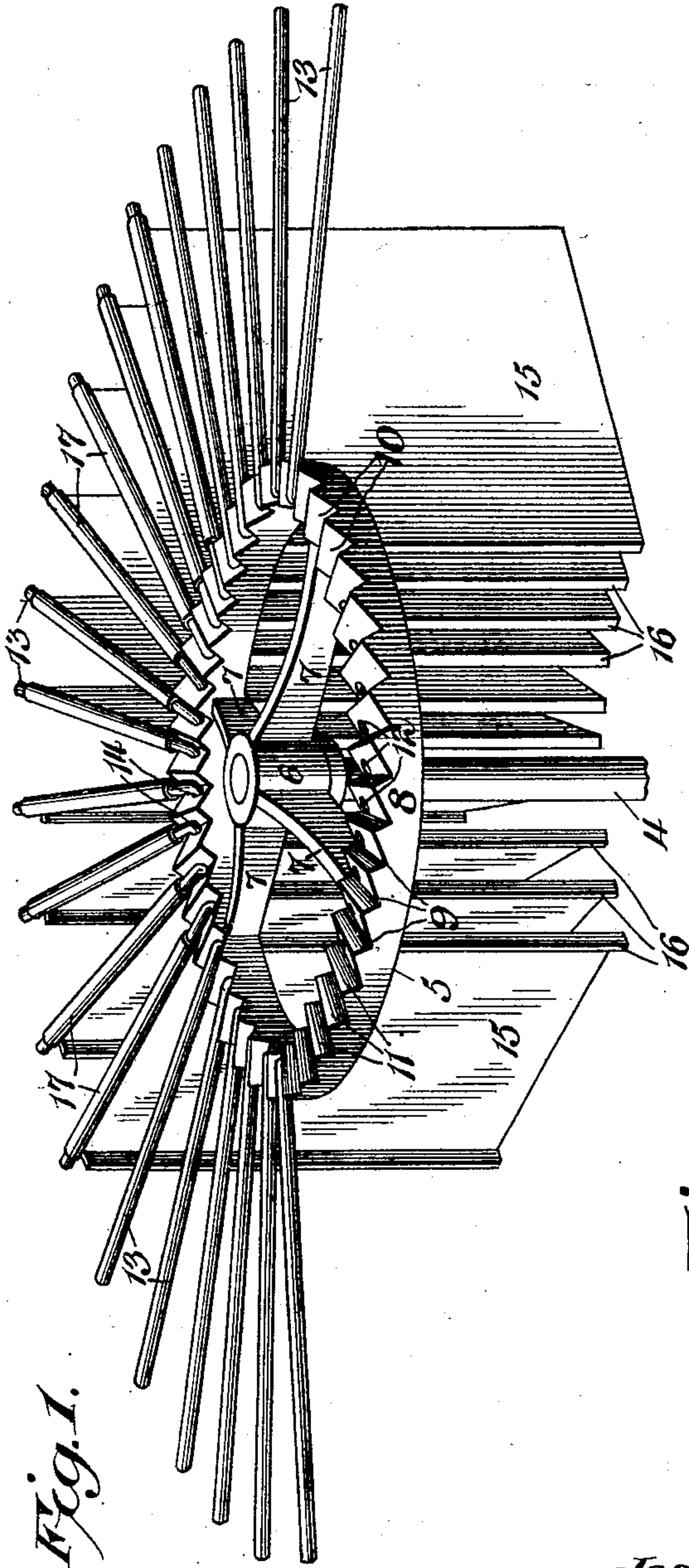


Fig. 1.

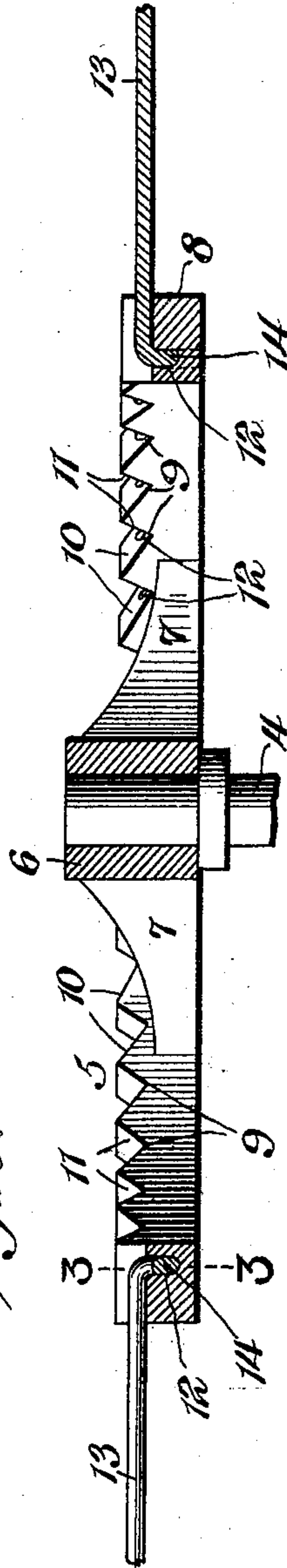


Fig. 2.

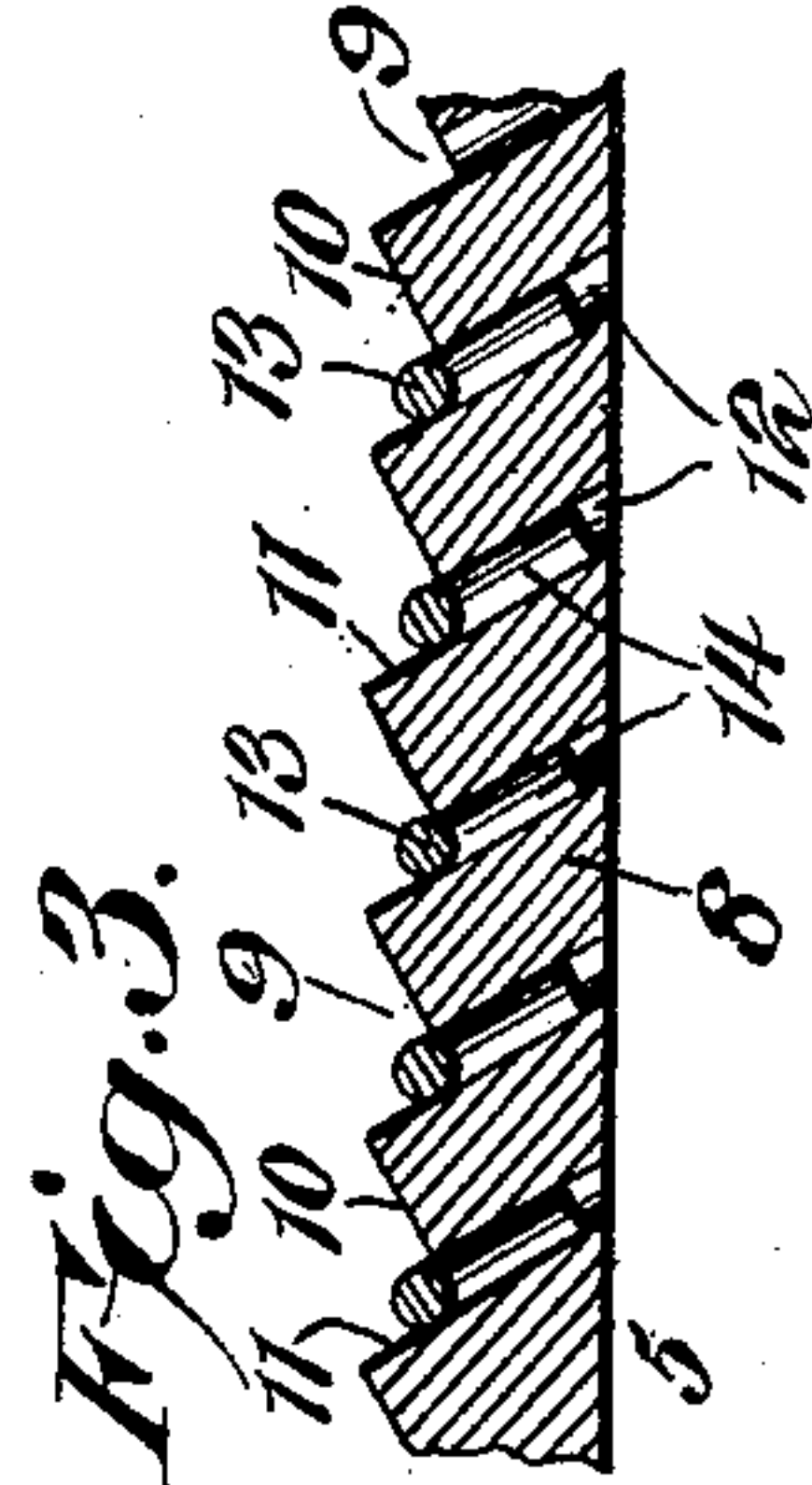


Fig. 3.

Witnesses

Howard D. Orr.

R. H. Felt.

Joseph Wiedemeier, Jr., Inventors,
and Anton A. Wiedemeier,

By

E. J. Siggers.

Attorney

UNITED STATES PATENT OFFICE.

JOSEPH WIEDEMEIER, JR., AND ANTON A. WIEDEMEIER, OF CARROLL, IOWA.

DISPLAY APPARATUS.

No. 903,253.

Specification of Letters Patent.

Patented Nov. 10, 1908.

Application filed February 5, 1908. Serial No. 414,427.

To all whom it may concern:

Be it known that we, JOSEPH WIEDEMEIER, Jr., and ANTON A. WIEDEMEIER, citizens of the United States, residing at Carroll, in the county of Carroll and State of Iowa, have invented a new and useful Display Apparatus, of which the following is a specification.

The present invention relates more particularly to means for supporting laces and embroidery holding cards of the character set forth in the patent granted to us on December 17, 1907, numbered 873,817, but inasmuch as it is useful for other analogous purposes and with carriers or holders of other types, it is obvious that said invention is not limited solely to such use.

The principal object of the present invention is to provide supporting means for a number of card or other holding devices, said devices being movable beyond predetermined positions so that the material or article held by each can be independently examined, the devices however, automatically reassuming their normal positions when said examination has been completed. Thus the display apparatus as a whole at all times will be in proper and neat condition, in so far as the appearance is concerned.

A further and very important object is to provide in connection with rotatable supporting means, card holding devices which can be freely turned on the supporting means in one direction, but cannot be moved thereon beyond a predetermined position in an opposite direction so that they will constitute means for rotating the support in said opposite direction in order that all the devices may be brought into position to be examined.

The preferred form of construction is illustrated in the accompanying drawings, wherein:—

Figure 1 is a perspective view of a portion of a display apparatus, showing some of the carrier arms removed and cards detached from others. Fig. 2 is a vertical sectional view through the structure. Fig. 3 is a detail sectional view on the line 3—3 of Fig. 2 and curved to intersect a plurality of sockets.

Similar reference numerals designate corresponding parts in all the figures of the drawings.

In the embodiment illustrated, a standard

4 is shown on the upper end of which is rotatably mounted a support in the form of a wheel 5 having a hub 6 that receives the standard, and arms 7 carrying a circular rim 8. The rim is provided in its upper side with an annular series of notches 9, each notch having an inclined face 10 and a stop shoulder 11 that is disposed substantially at right angles to the inclined face. Sockets or openings 12 are formed in the rim, and are located at an angle to the perpendicular, being preferably disposed at right angles to the inclined faces 10 and parallel to the stop shoulders 11. It will be observed that these sockets or openings are located in the lower portions of the inclined faces directly adjacent to the juncture of the same with the shoulders 11.

Carriers or suspending devices in the form of arms 13 are employed that have their inner ends downturned to form pintles 14 and these pintles are engaged in the openings 12. Detachably mounted on the arms 13 are the article holding cards or devices 15, which may be of any suitable character. In the present form, these cards comprise plates having side retaining flanges 16 and eyes 17 at their upper ends through which the arms pass. With this construction, the arms are normally radial with respect to the support and rest against the stop shoulders 11. They may, however, be turned to the right in which case they will ride up the inclined faces 10, and thus be slightly elevated. When free, however, they will automatically gravitate down said faces, and reassume their radial positions. They cannot turn beyond the stop shoulders. Consequently it will be evident that if the arms are engaged and turned to the right, the support will rotate with them but if turned to the left, the cards will be moved to a side position so that the material thereon can be readily examined. Thus the objects mentioned in the preliminary portion of the specification are secured. It is to be understood that any number of the supporting wheels 5 may be employed and that they can be arranged in any suitable or desirable manner.

From the foregoing, it is thought that the construction, operation and many advantages of the herein described invention will be apparent to those skilled in the art, without further description, and it will be under-

stood that various changes in the size, shape, proportion and minor details of construction, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is:—

1. In display apparatus, the combination with a support having a socket disposed at an angle to the perpendicular, of a swinging arm outstanding from the support and having a downturned terminal forming a pintle that is rotatably mounted in the socket and also disposed at an angle to the perpendicular, the arrangement of said pintle and socket being such that when the arm is swung from a predetermined position, it will automatically swing back to the same if released.

2. In display apparatus, the combination with a support having an inclined face, of an outstanding arm rotatably mounted on the support at the lower portion of said face and movable upwardly upon the face, said arm gravitating down said inclined face when released.

3. In display apparatus, the combination with a support having an inclined face and a stop shoulder located at the lower end thereof, of a carrier pivotally mounted on the support and normally located against the shoulder, said carrier being movable up the inclined face when swung away from the shoulder and automatically gravitating down the same when released.

4. In display apparatus, the combination with a support provided in its upper side with a notch, forming an inclined face with a stop shoulder located at the lower end of said face, of a carrier arm having an offset pintle journaled on the support at the juncture of the face and shoulder, said carrier being movable up the inclined face when swung in one direction and automatically gravitating down the same when released.

5. In display apparatus, the combination with a support having a socket located at an angle to the perpendicular, of a carrier having a pintle rotatably mounted in the socket and also disposed at an angle to the perpen-

dicular, said carrier thus having an inclined path of movement.

6. In display apparatus, the combination with a support having a socket located at an angle to the perpendicular, of a carrier having a pintle rotatably mounted in the socket and also disposed at an angle to the perpendicular, said carrier thus having an inclined path of movement, and a stop against which the carrier normally rests and to which it gravitates when free and in spaced relation thereto.

7. In display apparatus, the combination with a support having an inclined face and a socket that is disposed at substantially right angles to the face, of a carrier arm having a pintle rotatably mounted in the socket, said arm riding on the inclined face.

8. In a display apparatus, the combination with a support, having an angular series of notches in its upper side, said notches providing a series of inclined faces with stop shoulders located at the lower ends thereof, the support furthermore having sockets located at an angle to the inclination, one socket being provided for each inclined face, of radially disposed arms projecting from the support and having downturned pintles that are rotatably mounted in the socket, said arms riding up the inclined faces and gravitating down the same, being normally located against the shoulders.

9. In display apparatus, the combination with a rotatable support, of a plurality of outstanding arms pivoted on the support and freely movable in one direction thereon, and stops located in the path of movement of the arms to limit the movement of said arms with respect to the support in an opposite direction, said arms thereby constituting means for rotating the support in said latter direction.

In testimony, that we claim the foregoing as our own, we have hereto affixed our signatures in the presence of two witnesses.

JOSEPH WIEDEMEIER, JR.
ANTON A. WIEDEMEIER.

Witnesses:

W. A. ARTS,
J. C. ARTS.