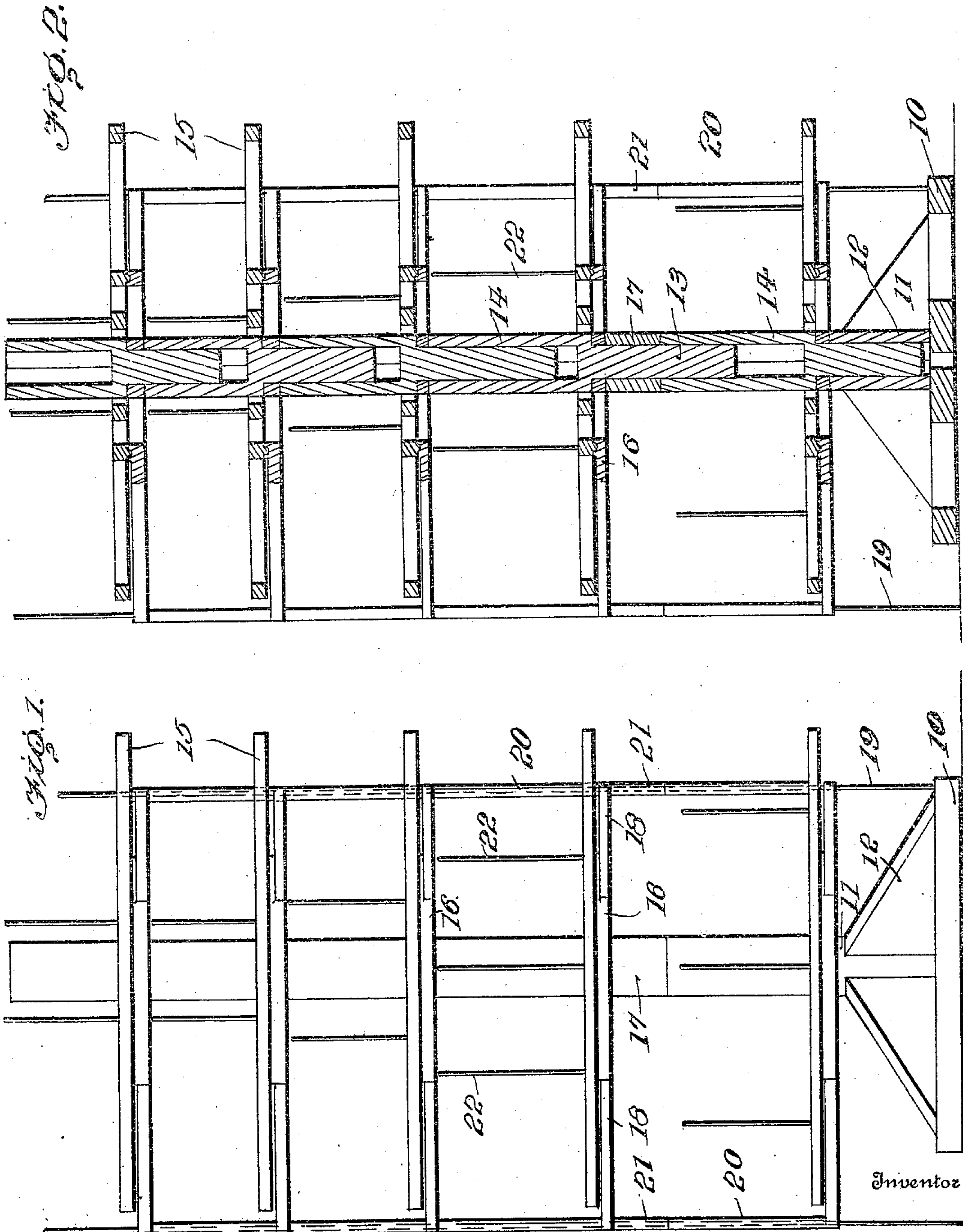


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ROTARY RACK.
APPLICATION FILED MAY 4, 1909.

929,324.

Patented July 27, 1909.
2 SHEETS—SHEET 1.



Witnesses
W. N. Woodson,
Gerana M. Follin.

By

F. J. Panzer.

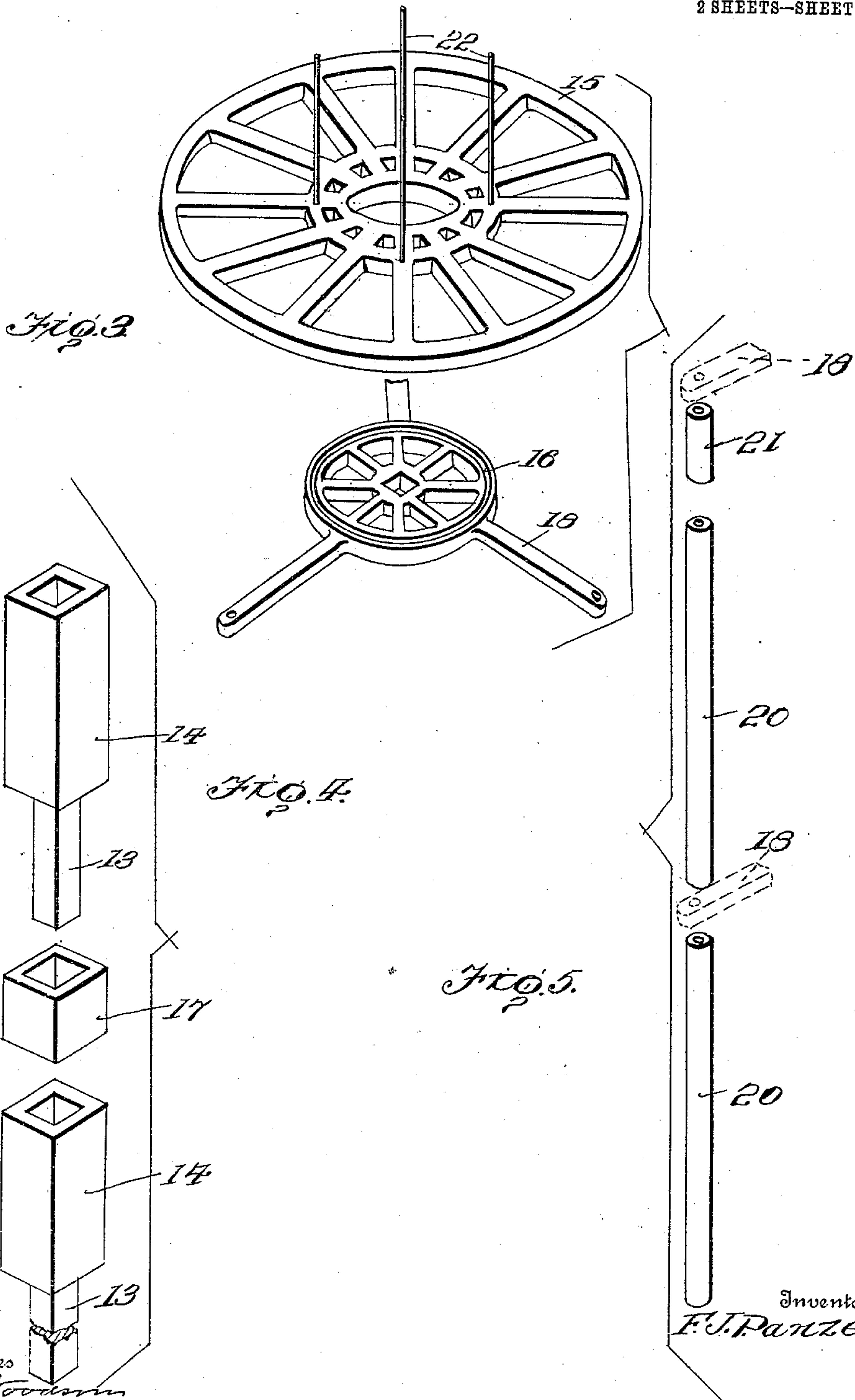
Attorney,

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UNITED STATES PATENT OFFICE.

FERDINAND J. PANZER, OF HASTINGS, NEBRASKA.

ROTARY RACK.

No. 929,324.

Specification of Letters Patent.

Patented July 27, 1909.

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To all whom it may concern:

Be it known that I, FERDINAND J. PANZER, citizen of the United States, residing at Hastings, in the county of Adams and State of Nebraska, have invented certain new and useful Improvements in Rotary Racks, of which the following is a specification.

This invention relates to supporting and displaying racks and refers particularly to a device of this nature which is of the rotary type.

An object of this invention is to provide a rotary rack to support belting of rubber, cotton, leather or the like, which is flexible and which permits of the coiling of the same in order that the belting may be withdrawn in various lengths as is desired, as the same is used.

The invention has for another object the provision of a rack of this nature which is provided with means whereby the same is adjustable so as to accommodate belting of various widths and which may also be employed for supporting coils of wire or the like.

The invention still further contemplates the provision of a rotary rack of this type which is simple in construction, is durable and one which may be easily operated to withdraw the belting from the same when such is desired.

For a full understanding of the invention reference is to be had to the following description and accompanying drawings, in which:—

Figure 1 is a side elevation of the complete rack. Fig. 2 is a vertical section of the same. Fig. 3 is a detailed perspective view of one of the supporting disks and reels detached. Fig. 4 is a detached perspective view of the standard sections and adjusting collar. Fig. 5 is a detailed perspective view of one of the supporting rods and sleeves connected therewith, the same showing the collar for adjusting the heights of the reels.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

Referring to the drawings in which is disclosed an embodiment of the invention, the numeral 10 designates a base which is of any adaptable formation, the same being preferably rectangular as disclosed in the drawings and which is provided centrally with an upwardly projecting socket 11 which

is provided with a rectangular bore and which is braced in position by suitable webs 12 or the like. The base 10 is provided with a vertical standard which is upwardly extended from the socket 11 and which comprises a plurality of sections each of which is formed of a rectangular shank 13 and an enlarged head 14. The sections are disposed in superimposed relation, the shanks 13 being engaged in rectangular openings formed longitudinally within the heads 14 in order to form a rigid standard upon which is supported a plurality of reels 15. The lowermost section is supported upon the base 10 by the extension of the shank 13 within the socket 11.

Disposed between each of the sections of the standard are supporting disks 16 which are provided with central rectangular openings through which the shanks 13 are inserted in order to clamp the adjacent edges of the heads 14 against the opposite faces of the supporting disks 16 and to thereby retain the supporting disks 16 in rigid relation to the standards. The reels 15 are each provided with enlarged circular openings at the center thereof which engage about the heads 14 and permit of the rotation of the reels 15 upon the upper faces of the supporting disks 16. Each of the reels 15 is provided with an annular bead disposed upon the lower face thereof and distanced from its center to engage through a groove formed annularly in the upper face and adjacent the outer edge of each of the supporting disks 16 in order to form a suitable bearing for the reel 15. For adjusting the distance between the reels 15 the heads 14 may be formed in different lengths and rectangular collars 17 are employed which are provided with rectangular apertures centrally through the same through which the shanks 13 are engaged, the outer faces of the collars 17 being disposed in alinement with the outer faces of the heads 14 in order to form continuations of the heads. The supporting disks 16 are further braced by the provision of radially extended arms 18 which are preferably three in number and which are apertured at their outer extremities through which are passed vertical rods 19 mounted parallel with the standards and engaged with the ground outwardly of the base 10. The rods 19 are each provided with sleeve sections which are disposed between the registered arms 18 engaged about the rods 19 for the

purpose of retaining the rods 18 in the required adjusted position and to support the same horizontally, thereby bracing the disks 16. The sleeves 20 also serve the purpose of admitting of the withdrawal of the strips of flexible material which are supported upon the reels 15 by drawing the strips over the same, the sleeves being rotated for reducing the frictional engagement between the strips and the rods 19. The rods 19 are further provided with rollers 21 which correspond in length to the collars 17 and are employed when it is desired to vary the distance between the supporting disks 16 and to retain the arms 18 in rigid horizontal relation therewith.

The reels 15 are each provided with a plurality of pins 22 which are upwardly extended from the same and spaced from the center thereof to form the centers of the reels in order to support the inner ends of the belting which is disposed thereupon. In the drawings the uppermost reel is disclosed as having the pins 22 mounted adjacent the central portion thereof while the lower reels 15 are disclosed as having the pins 22 positioned outwardly upon the reels, the different positions being effected for the purpose of supporting material of various kinds which is to be positioned thereupon.

In operation the device is as follows:— When it is desired to place a strip of belting or length of wire upon the reels 15 the inner ends of the strips are engaged with the pins 22 and the reels are rotated in order to wind the strips about the pins 22 to dispose the strips about the same. In the operation of winding the strips upon the reels 15 the strips are retained against the sleeves 20 which rotate and form an anti-friction means for feeding the strips upon the reels and for retaining the same in a flattened position throughout the operation. The strips or lengths of wire are likewise withdrawn from the reels by drawing the same over the sleeves 20, the drawing action causes the reels 15 to rotate as the same are engaged with the supporting disks 16 by means of the annular beads formed upon the under faces of the reels 15 and engaged in the grooves formed in the upper faces of the supporting disks 16, which means of supporting reduces the frictional engagement between the disks 16 and the reels 15. By the addition of the shanks 13 and sockets 14 which comprise the standard sections the device may be formed as high as is desired and any number of reels 15 may be disposed upon the rack.

By the insertion of the collars 17 and the rollers 21 the distances between the reels 15 may be enlarged so as to admit of the positioning of strips of various widths, or hose lines and other flexible material which it is desired to place upon the rack.

Having thus described the invention what is claimed as new is:—

1. A rack as specified comprising a base, a plurality of standard sections detachably disposed in superimposed relation, supporting disks rigidly mounted between each of said standard sections, reels rotatably disposed about said standard sections and engaged upon the upper face of said disks, arms radially extended from said disks, rods vertically disposed through the outer extremities of said arms and sleeves rotatably disposed about said rods between said arms for retaining the same in a fixed horizontal position.

2. A rack as specified comprising a base, a socket upwardly extended from said base, webs carried by said base, and engaged with said socket for supporting the same, a shank engaged within said socket being of rectangular formation, a head carried by said shank and having a rectangular aperture formed through the same, a supporting disk engaged upon the upper end of said socket and having a rectangular aperture formed centrally therethrough for the reception of said shank, a reel rotatably disposed about said head and supported upon said disk, said disk having an annular groove formed in the upper face thereof, a bead formed annularly upon the under face of said reel for engagement in the groove formed in said disk and a plurality of heads and sockets mounted upon said first head for supporting a plurality of reels in superimposed and spaced relation.

3. A rack as specified comprising a base, a plurality of standard sections upwardly extended from said base in superimposed relation, each of said sections comprising a shank and an enlarged head, the shanks of said sections being engaged in the respective underlined heads, a plurality of supporting disks having rectangular apertures formed therethrough engaged about said shanks and a plurality of reels rotatably disposed about said heads and engaged with said disks.

4. A rack as specified comprising a plurality of standard sections upwardly extended from said base in detachable relation, a plurality of disks engaged between said sections, a plurality of radially extended arms carried by said disks, rods vertically disposed through said arms, sleeves rotatably disposed about said rods between said arms to retain the same in spaced relation, a plurality of reels rotatably disposed about said standard sections and supported on said disks and pins carried by said reels and spaced from the centers of the same.

5. A rack as specified comprising a base, a plurality of standard sections upwardly extended in detachable and superimposed relation from said base, a plurality of disks supported between said sections, reels rotatably

mounted about said sections and engaged upon said disks, rods vertically disposed through said reels for supporting the same, sleeves rotatably disposed about said rods for retaining said arms in spaced relation, collars detachably positioned between said standard sections for adjusting the distances between said reels and rollers disposed about said rods for adjusting the distances between the extremities of said arms.

6. A rack including a base, a sectional standard mounted on said base, rigid members engaged between the sections of said standard, collars engaged between the standard sections to adjust the distances between said rigid members and rotary members mounted on said rigid members.

7. A rack including a base, a sectional standard mounted on said base, supporting members engaged between the sections of said standard, rods vertically disposed outwardly of said standard, sleeves carried by said rods for engagement with said members to retain the same rigidly in position and reels mounted on said members.

8. A rack including a base, a sectional

standard disposed on said base, supporting members engaged between the sections of said standard, rods disposed vertically outwardly of said standard and engaged with said supporting members to secure the same in position, spacing members carried by said standard and said rods to adjust the distances of said supporting members from one another and reels mounted on said supporting members.

9. A rack including a base, a sectional standard disposed on said base, rods vertically disposed outwardly of said standard, supporting members mounted on said standard and connected to said rods, means disposed upon said standard and said rods to adjust said supporting members relative to one another and reels disposed upon said supporting members.

In testimony whereof I affix my signature in presence of two witnesses.

FERDINAND J. PANZER. [L. s.]

Witnesses:

H. M. DINGSLEY,
N. M. DUTTON.