Nov. 18, 1924. 1,516,281

A. EISNER

RACK

Filed Sept. 20, 1922

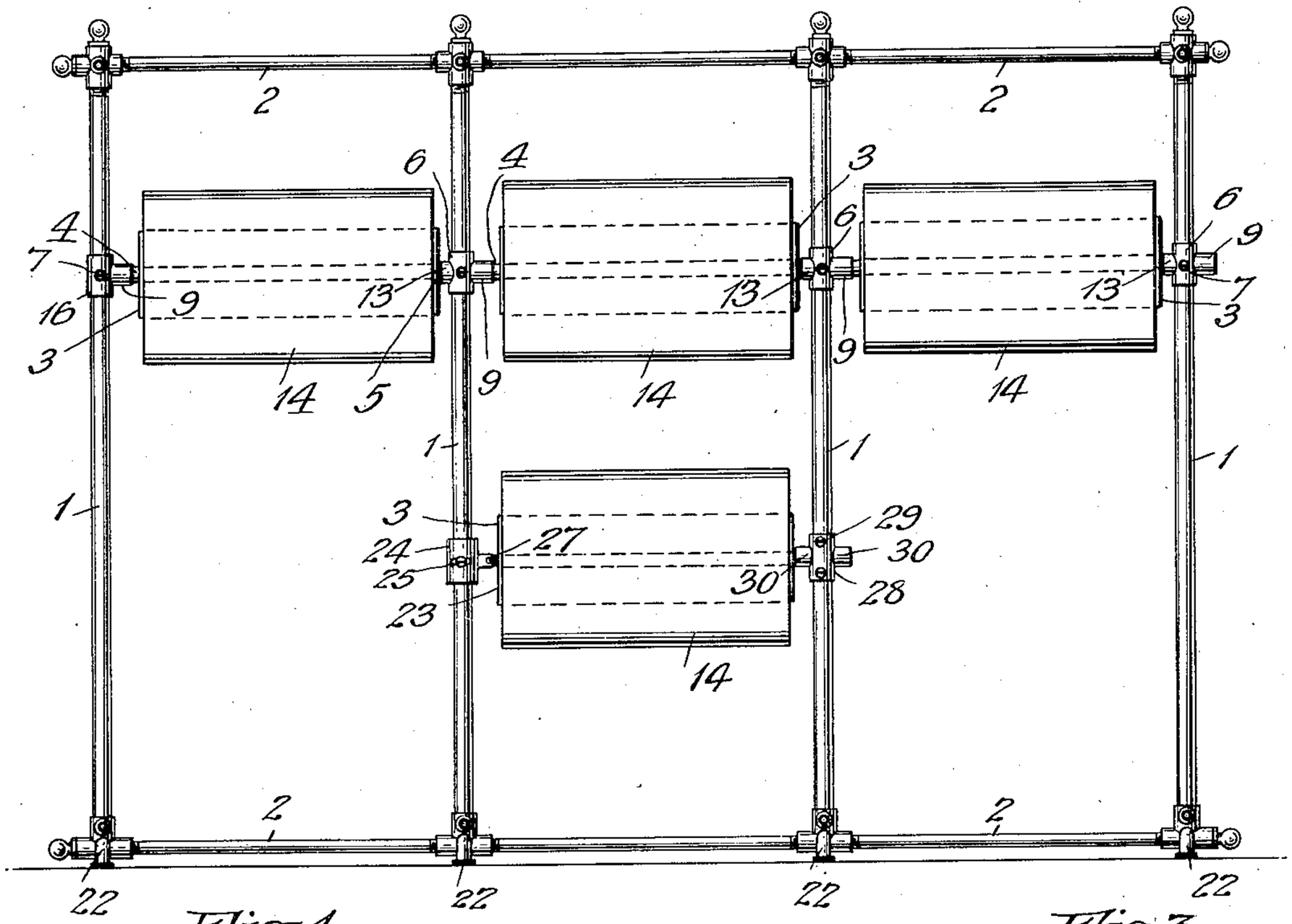

Fig. 1.

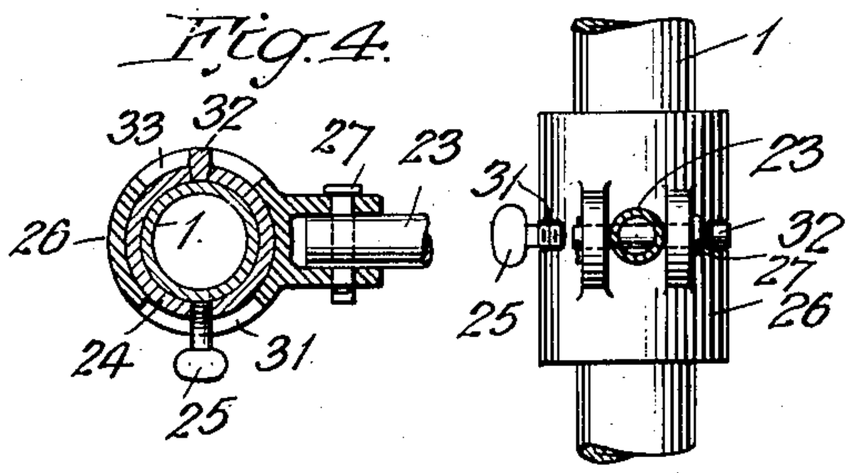

Fig. 3.

Fig. 4.

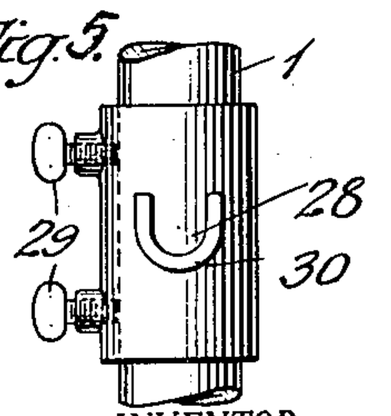

Fig. 5.

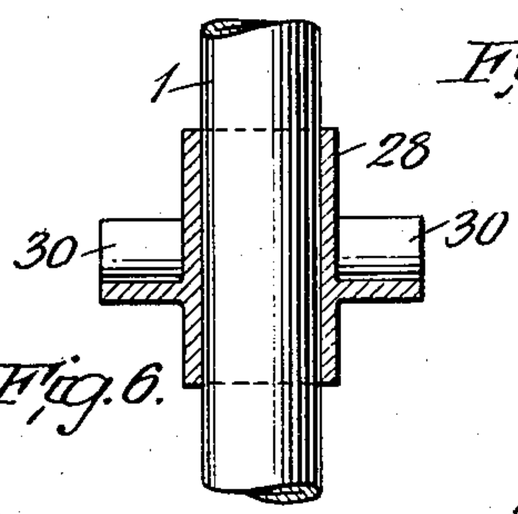

Fig. 6.

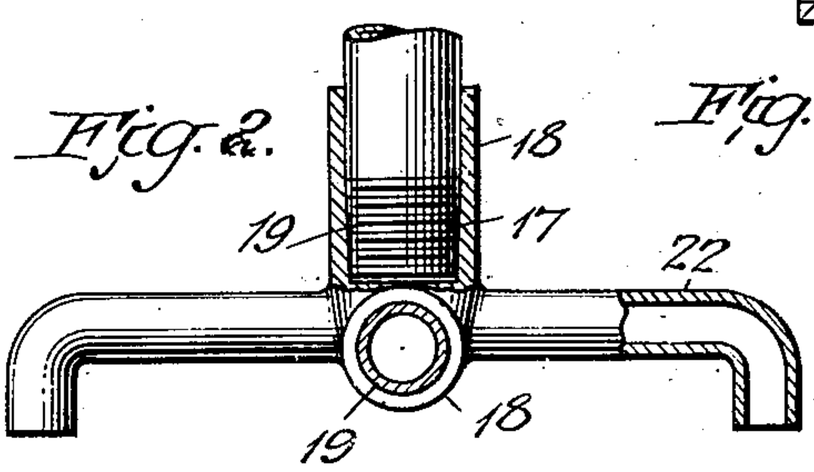

Fig. 2.

INVENTOR.
ALEXANDER EISNER
BY Alexander C. Brownfield,
ATTORNEY.

Patented Nov. 18, 1924. 1,516,281

UNITED STATES PATENT OFFICE.

ALEXANDER EISNER, OF BROOKLYN, NEW YORK.

RACK.

Application filed September 20, 1922. Serial No. 589,289.

To all whom it may concern:

Be it known that I, ALEXANDER EISNER, of Brooklyn, New York, have invented certain Improvements in Racks, of which the following description, in connection with the accompanying drawings, is a specification, like characters in the specification and on the drawings designating like parts.

This invention relates to racks, and is of particular utility when embodied in the construction of such articles as racks for the support of bolts of cloth, although I contemplate the use of my invention in any field for which my improvements are adapted by their nature.

An important object of my invention is to provide means for supporting bolts of cloth in a horizontal position so that they can be readily removed from the rack or replaced, and this I prefer to accomplish by providing a series of uprights and a series of transverse supporting members carried thereby and movable laterally into position to receive the bolts of cloth.

Still another object of my invention is to provide feet with joints of improved rigidity supporting the uprights and lateral frame members in racks for articles of the character described, and I prefer to accomplish this provision by forming each of these joints with a socket having a threaded extension of considerably less diameter than the mouth of the socket, and I form the co-operating ends of the uprights and lateral frame members respectively each as a male member to enter the mouth of its socket snugly and having a reduced threaded extension to screw into the threaded inner portion of said socket.

The various features of my invention will be illustrated and described fully in the accompanying drawings and specification and pointed out in the claim.

In the drawings:

Fig. 1 is a view in front elevation of a rack in the construction of which my invention has been embodied;

Fig. 2 is a vertical, sectional view, on a larger scale, illustrating one of the feet in detail, parts being shown in elevation; and

Figs. 3 to 6 are fragmentary detail views of my preferred type of bracket.

In the embodiment of my invention selected for illustration and description, the parts designated by the reference numerals 1 and 2 are respectively the uprights and lateral members of a rack for the support of bolts of cloth 14, and may be of any suitable material and contour, such as metal piping. These are utilized to carry transverse supporting members 3 which may conveniently take the form of flat devices suitable to pass through a bolt of cloth, and have journals 4 and 5, one at each end, to enter sockets 9 and 13 carried by brackets 6 with which the uprights 1 are provided, the brackets having set screws preferably, as at 7, to hold them in adjusted vertical position upon the uprights, which pass through the vertical apertures of the brackets.

And it is to be understood that the front only of the rack is shown in Fig. 1, and that it may be extended rearward, as well as sidewise, by suitable construction of the brackets with sockets 9 and 13 extending rearward or forward.

In Fig. 2 I have illustrated another important feature of my invention, comprising a form of joint of unusual rigidity, and which may be used wherever found suitable in the structure of the rack shown, or in similar structures.

In forming joints of the improved type, I provide a threaded female or socket part 17, with an unthreaded extension 18 for a considerable distance beyond the threaded portion, and I form this mouth of slightly larger diameter than the threaded portion, so as to permit the ready insertion of the pipe or other male member 1, the latter having a threaded portion 19 to screw into the threaded portion 18, and any excess space therebetween, as at 20 may or may not be filled by inserting a packing (not shown). The upright 1 should fit snugly in the socket, and the unthreaded portion serves to prevent breakage of the pipe 1 at the end of the threaded portion 19, which often occurs in the absence of such an arrangement.

In Fig. 2 I have shown two such joints as forming part of a foot member 22 for racks of my improved construction, the foot being formed preferably as a hollow casting, instead of being made up of pipes, couplings and like fittings, which lack the necessary structural strength to support bolts of cloth and like bulky articles.

I have also illustrated in Figs. 1, and 4 to 7 a modified form of supporting member 23, constructed and arranged to swing out laterally at one end while being supported

firmly at the other end, and provided with special brackets which I have devised for the above purpose.

In this modified form of support, the bracket at 24 comprises a collar secured in adjusted position upon one of the uprights 1 by suitable means, such as one or more set-screws 25, and having mounted thereon an auxiliary loose collar 26, rotatable in a horizontal plane and having a hinge connection at 27 with one end of the member 23, so that the latter can be swung up and down on the hinge, and can be swung out laterally to receive a bolt of cloth, and to support the free end when swung back with the bolt of cloth, I have shown at 28 a bracket secured to the opposite upright 1 by a set-screw 29, and having at 30 a seat or seats to receive and support the free end of the members 23, respectively.

Preferably the rotative movement of the loose collar 26 about the collar 24 will be limited by the set-screw 25, working in a slot 31, or a lug 32, working in a similar slot 33 may be likewise utilized, or as already indicated, another set-screw 25 may be provided in place of the lug 32.

I do not claim herein the various forms of brackets above described, as the same are reserved for protection in my divisional application Serial No. 738001 filed Sept. 16, 1924.

Having illustrated and described my invention thus fully, and suitable means by which the same may be carried into effect, I wish it to be understood that I do not limit myself to the specific materials or structural forms selected for illustration and description by way of example, nor in general do I limit myself otherwise than as set forth in the claim read in connection with this specification.

What I claim as new, and desire to secure by Letters Patent, is:—

A foot for racks of the class described, said foot having a body member with floor-engaging portions and socket parts to receive upright and lateral rack members, said socket parts having respectively threaded portions of considerably less diameter than the sockets proper.

Signed at New York, in the county and State of New York, this 13th day of September, 1922.

ALEXANDER EISNER.

Witnesses:

ALEXANDER C. PROUDFIT,

MAURICE LEFKORT.