

(No Model.)

O. W. SCHAUM.

GRIFF GUIDE FOR JACQUARD MECHANISM.

No. 488,226.

Patented Dec. 20, 1892.

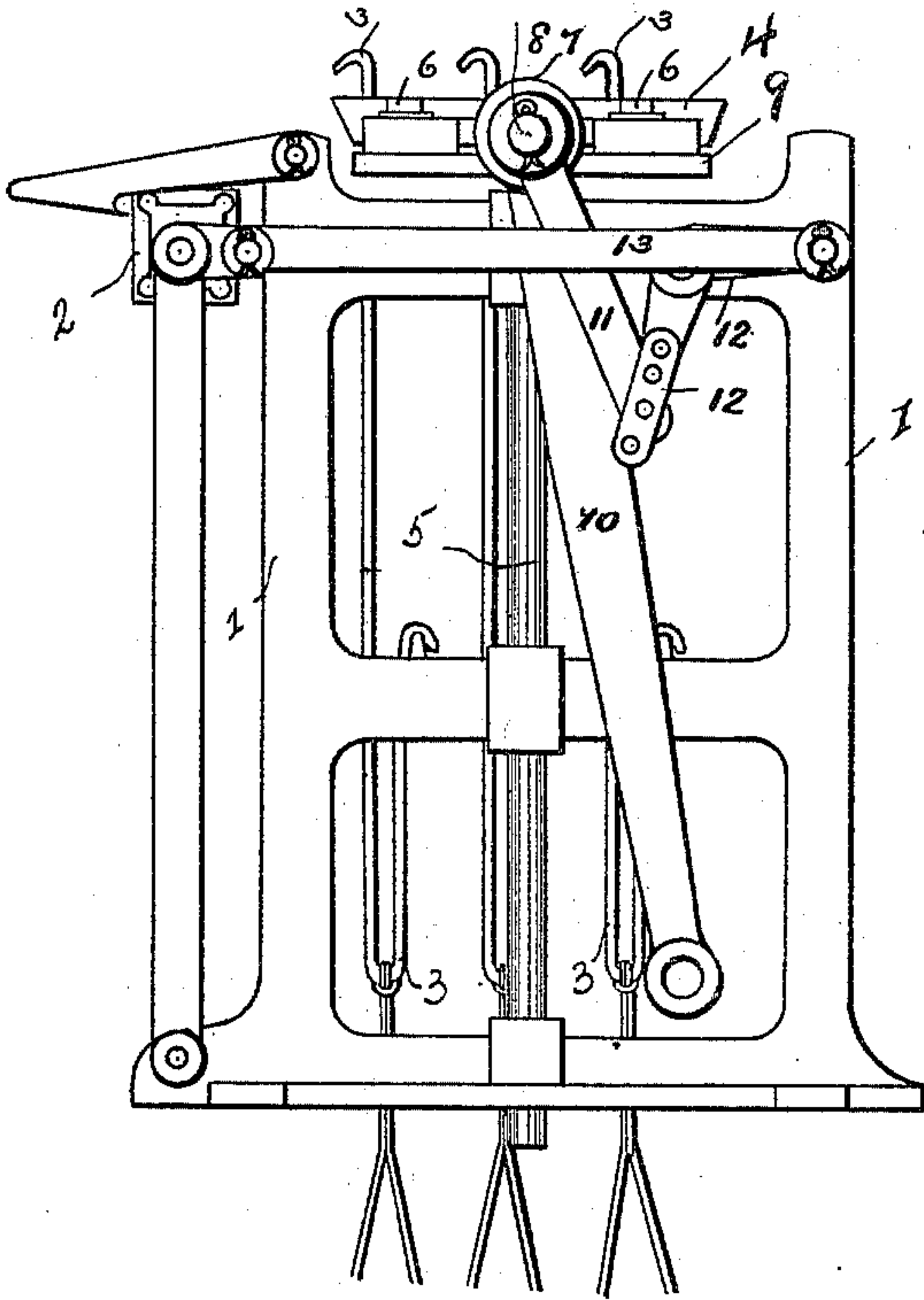


Fig-1-

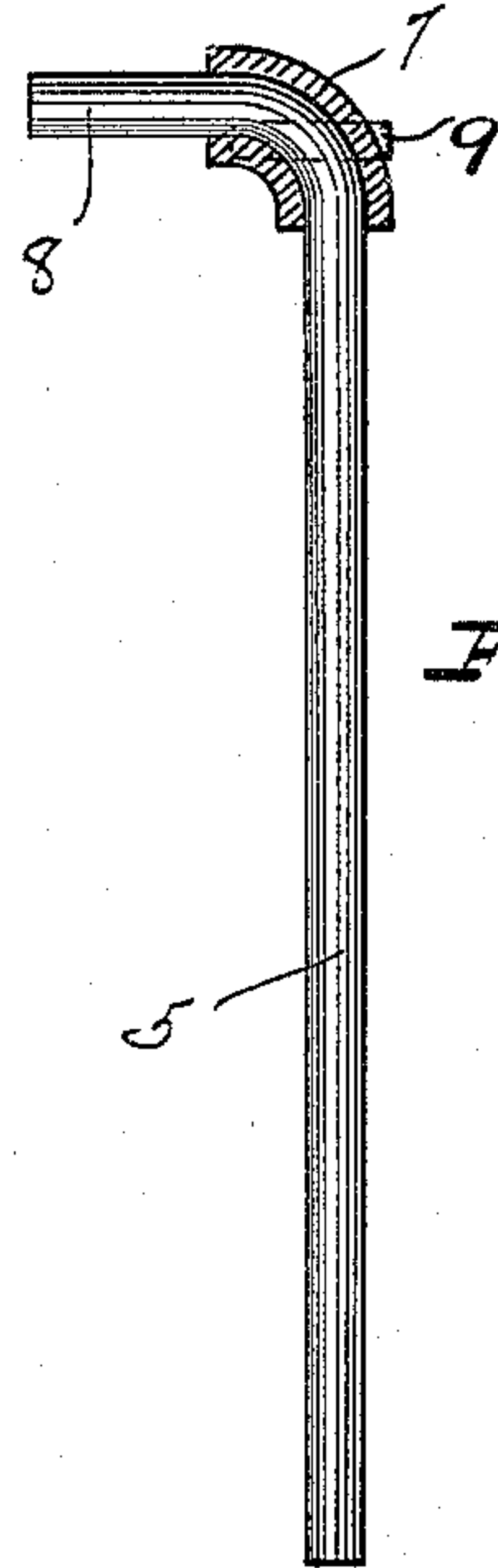


Fig-3-

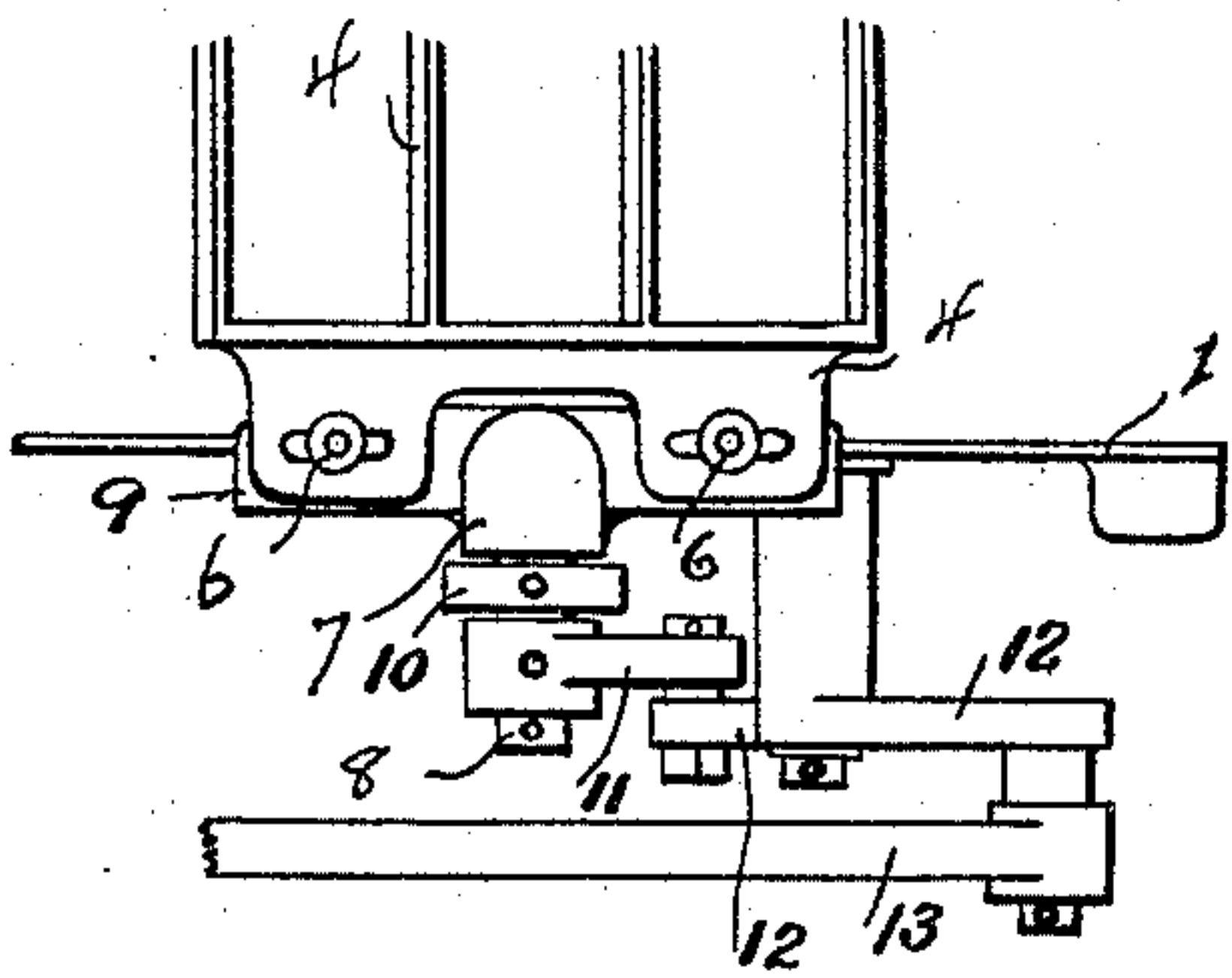


Fig-2-

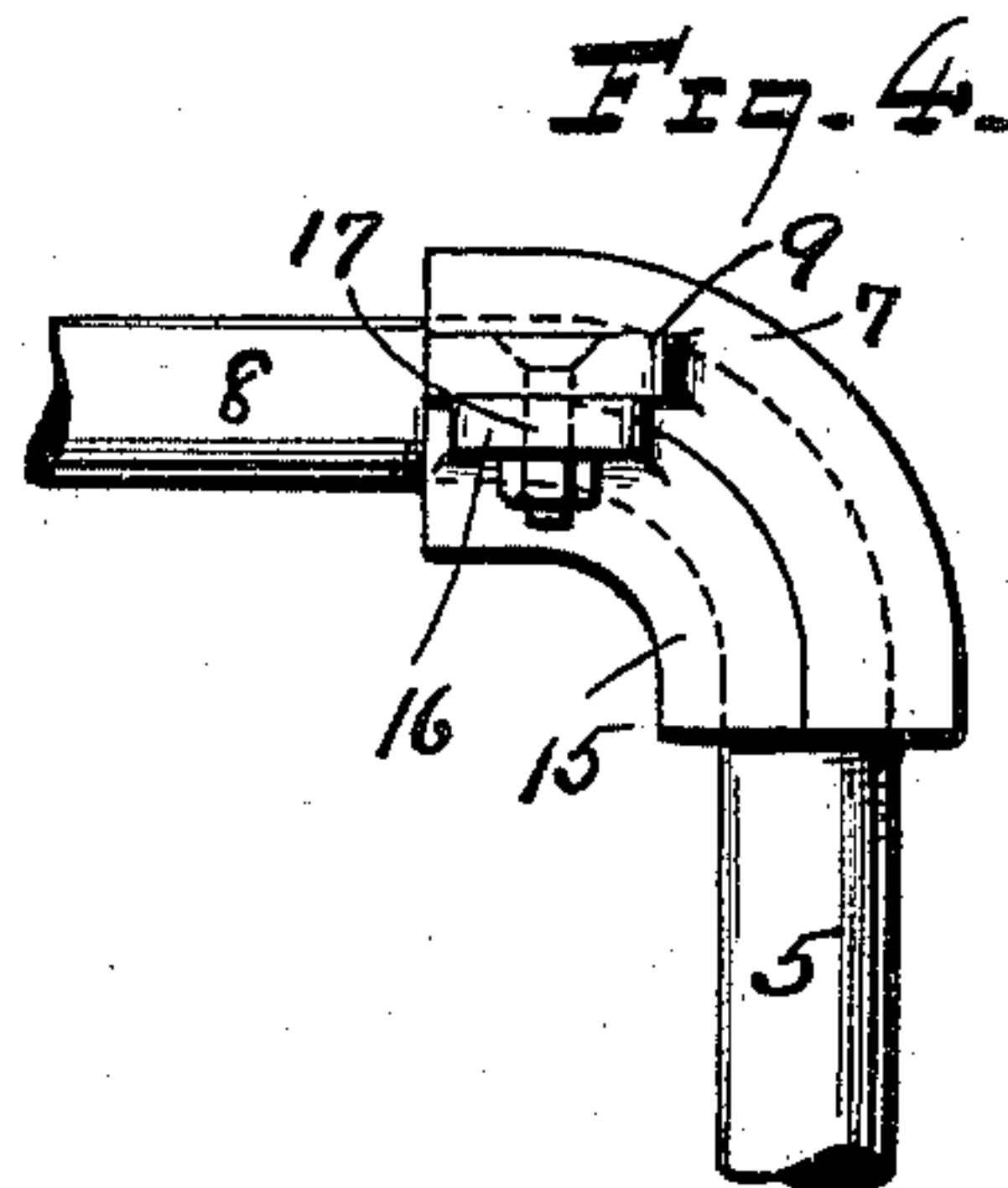


Fig-4-

Witnesses-

Joshua M. Mack, Jr.
J. D. Russell.

Inventor.

Otto W. Schaum.

UNITED STATES PATENT OFFICE.

OTTO W. SCHAUM, OF PHILADELPHIA, PENNSYLVANIA.

GRIFF-GUIDE FOR JACQUARD MECHANISM.

SPECIFICATION forming part of Letters Patent No. 488,226, dated December 20, 1892.

Application filed May 12, 1892. Serial No. 432,721. (No model.)

To all whom it may concern:

Be it known that I, OTTO W. SCHAUM, of the city and county of Philadelphia, State of Pennsylvania, have invented certain new and useful Griff-Guides for Jacquard Mechanisms, of which the following is a true and exact description, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to the Jacquard apparatus used with looms, and has for its object to provide a strong and durable guide and support for the griffs.

The nature of my invention will be best understood as described in connection with the drawings in which it is illustrated, and in which—

Figure 1 is a side elevation of a Jacquard apparatus provided with my improved guide and support. Fig. 2 is a plan view of a portion of the parts. Fig. 3 is an elevation partly in section of the griff guide and support, and Fig. 4 a perspective view showing a modified form of the guide and support.

1 indicates the frame of the jacquard; 2 the card cylinder, 3 the hooks, 4 the griffs.

5 is the griff guide vertically movable in proper supports on the frame of the jacquard, and which by means of a bracket 9 supports the griff, lugs from which rest upon the said bracket and are secured to it by bolts 6 as shown.

8 is the pin projecting out from the guide, and to which are connected the levers 10 and 11, which are actuated in the usual way so as to act upon the pin and the connected griff guide to give the griff the necessary up and down motion.

The general form and arrangement of the above described parts and their combination with each other and the other usual parts of the Jacquard apparatus, are, as shown in the drawings, of a familiar and common character and need not, therefore, be more specifically described. As heretofore constructed, however, the griff guide, its bracket and pin have been made entirely of cast metal, or the guide and bracket have been made entirely of cast metal, and a wrought iron pin 8

screwed into a hole in the cast bracket, and much trouble is found owing to the breaking or loosening of the parts. I have overcome the difficulties heretofore met with, and have provided a simple durable and efficient device by forming the griff guide 5 and pin 8 of an integral rod of wrought iron or steel bent in the form shown in the drawings, so that the pin will extend out laterally and I then secure to it the bracket to form a bracket or support for the griffs. Preferably I do this by securing the rod 8 in a properly prepared mold, and casting the bracket 9 with a hub 7 which surrounds and incorporates the bent rod. Preferably, also, I make the hub 7 to embrace the bend of the guide rod as shown at Fig. 3, because that is the point where the attachment of the wrought and cast metal is most perfect; also because that is the proper and most convenient point for the attachment of the bracket. Obviously, however, the hub 7 may embrace the wrought iron rod at a lower point than the bend.

While I prefer this mode of constructing my improved device it will be obvious that the bracket may be attached by other means than casting; for instance, as indicated in Fig. 4, where the bracket 9 is cast with a hub 7 which does not reach around the bent rod, but is clamped to it by means of a grooved clamping piece 15 provided with flanges 16, which flanges are bolted to the bracket 9 as indicated at 17.

Having now described my invention, what I claim as new and desire to secure by Letters Patent, is—

1. In a jacquard a griff guide 5—8 composed of a continuous piece of bent wrought metal forming the shank and lifting pin, in combination with a griff bracket 9 fastened thereon, substantially as described.

2. In a jacquard, a griff guide 5—8 composed of a continuous piece of bent wrought metal forming the shank and lifting pin, in combination with a griff bracket 9 cast around the guide, substantially as specified.

3. In a jacquard a griff-guide 5—8 composed of a continuous piece of bent wrought metal forming the shank and lifting pin, in

combination with a griff bracket 9 cast around the bend of said guide substantially as specified.

4. In a jacquard, a griff-guide 5—8 composed of a continuous piece of bent wrought metal forming the shank and lifting pin in combination with a griff bracket 9 secured to

the bend of said guide, substantially as specified.

OTTO W. SCHAUM.

Witnesses:

LEWIS R. DICK,
J. H. RUSSELL.