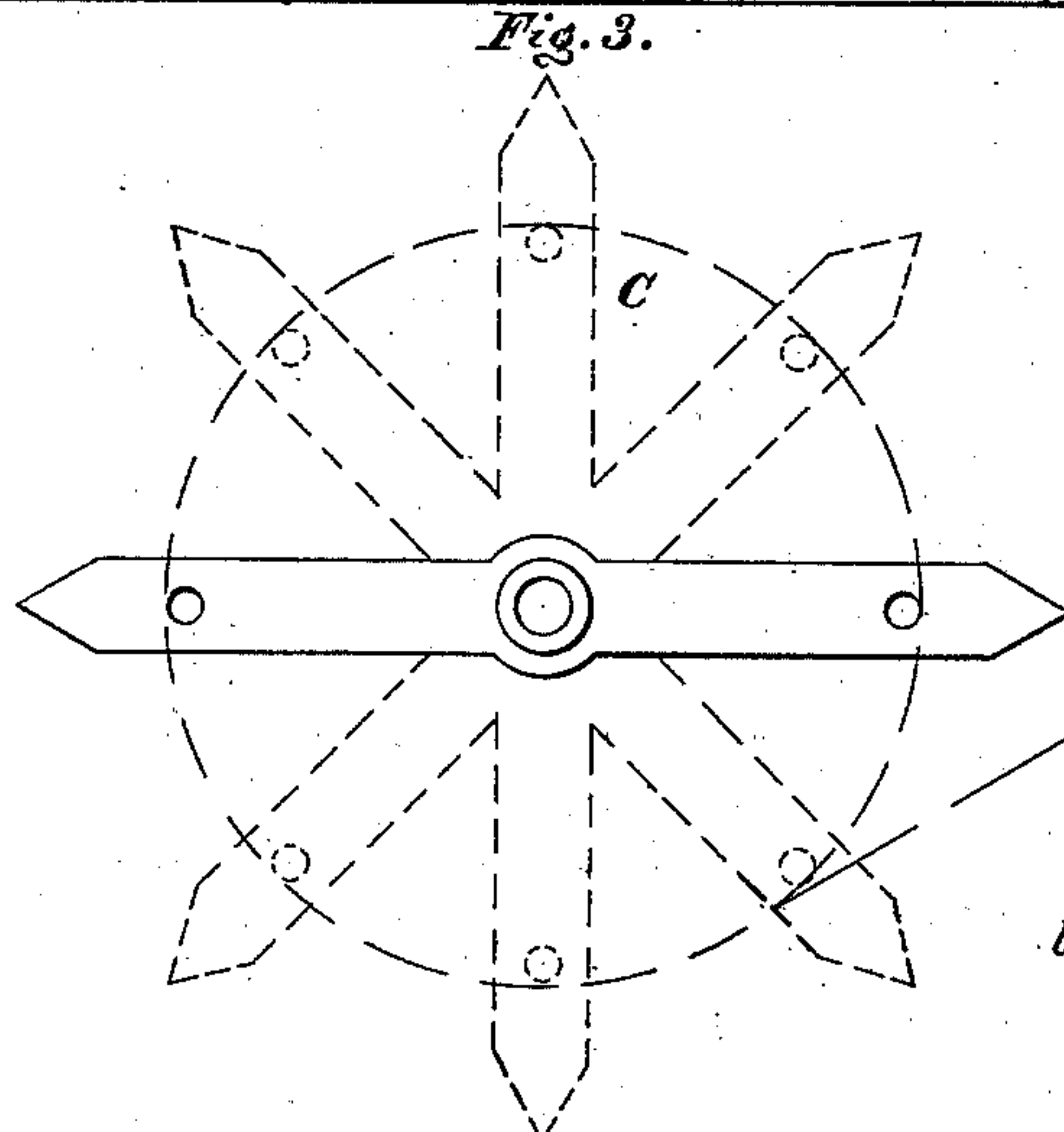
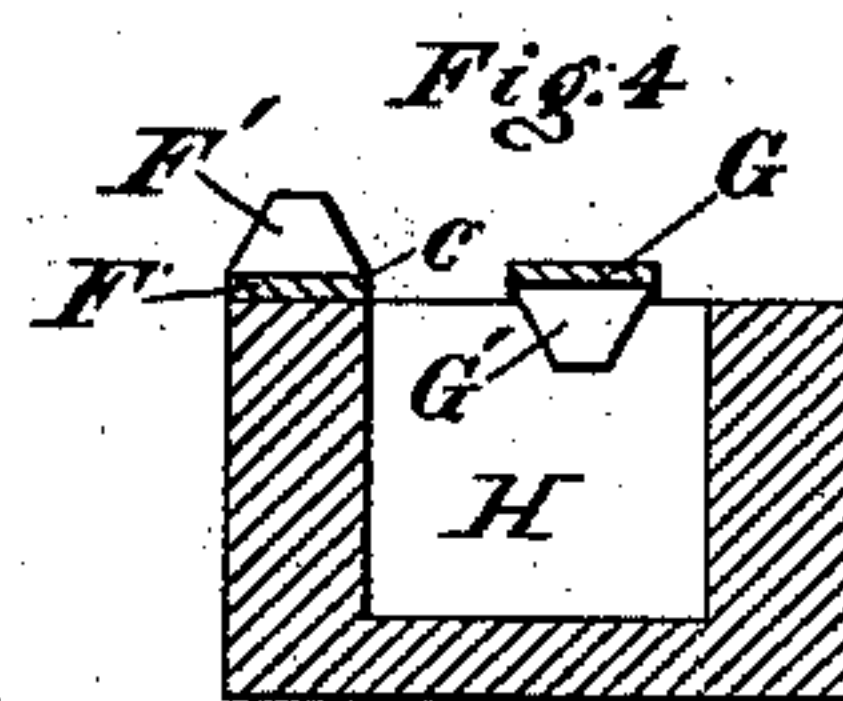
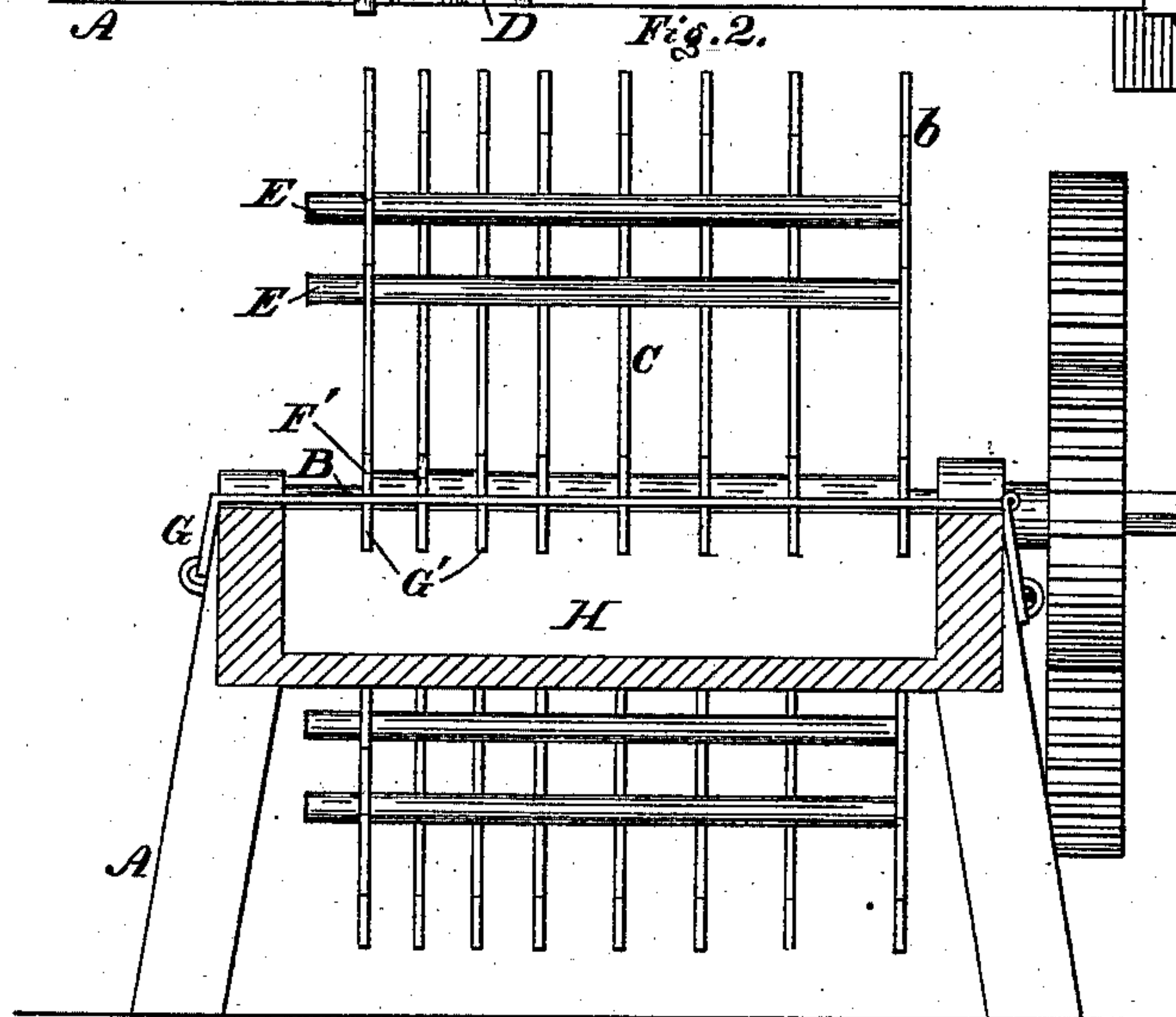
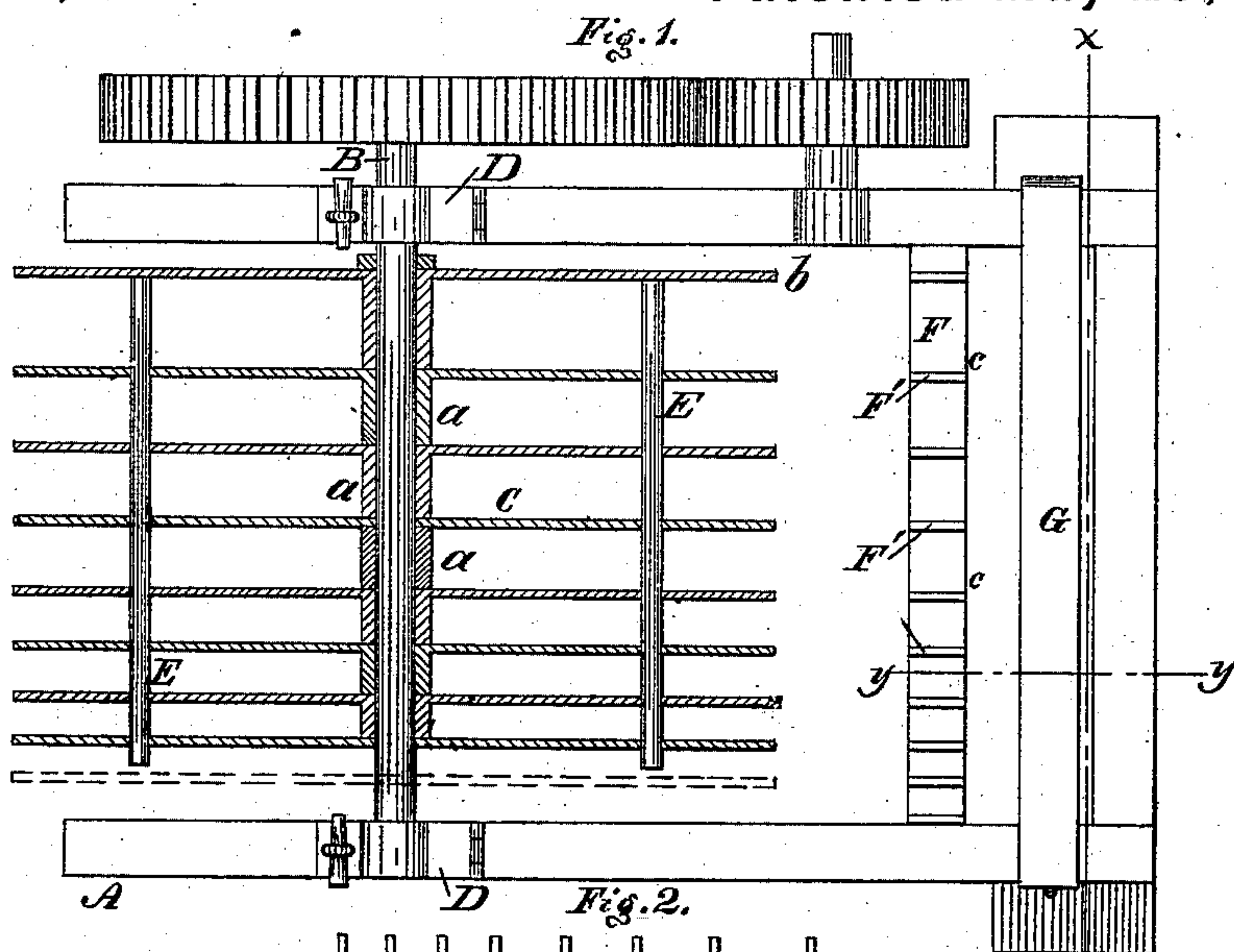


W. P. BREEDING.
Apparatus for Bundling Hoop Iron.

No. 227,953.

Patented May 25, 1880.



Witnesses:
A. P. Grant,
W. P. Kircher

Inventor:
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UNITED STATES PATENT OFFICE.

WILLIAM P. BREEDING, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR OF
ONE-HALF OF HIS RIGHT TO C. H. HORNE, OF SAME PLACE.

APPARATUS FOR BUNDLING HOOP-IRON.

SPECIFICATION forming part of Letters Patent No. 227,953, dated May 25, 1880.

Application filed January 19, 1880.

To all whom it may concern:

Be it known that I, WILLIAM P. BREEDING, of the city and county of Philadelphia, and State of Pennsylvania, have invented a new and useful Improvement in Apparatus for Coiling or Bundling Hoop-Iron, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 is a top or plan view, partly sectional, of the apparatus embodying my invention. Fig. 2 is a vertical section thereof in line *x x*, Fig. 1. Fig. 3 is a view of a detached part. Fig. 4 is a section of a portion in line *y y*, Fig. 1.

Similar letters of reference indicate corresponding parts in the several figures.

My invention consists of a reel adapted for coiling or bundling thereon one or more lengths of hoop-iron, and afterward conveniently removing the same. For this purpose the reel is formed of one or more sections removable from the shaft, and the latter is made detachable from its bearings.

Referring to the drawings, A represents a frame or support for the shaft B of a reel, C.

The shaft B is held in position on its bearing of the frame A by means of caps D, which are hinged to the upper side of said stand, and secured by means of bolts or pins and staples, or other fastenings properly applied.

The reel C is formed of sections or arms connected to the shaft B, and separated from each other by means of collars *a*, placed between them; or said collars may be connected to the arms and shaft.

The end section, *b*, has connected to it rods E, which, arranged horizontally, are passed freely through the arms of the other sections, the iron to be coiled or bundled being adapted to be wound on said rods.

Projecting from a plate, F, at one end of the frame A are upright guides F', and adjacent thereto is hinged a bar, G, from which depend vertical guides G', a trough, H, being located beneath the bar G, into which the guides G' project, the edge *c* of the plate F being at the inner side of said trough H.

The operation is as follows: The shaft B is rotated, power being imparted thereto in any suitable manner. The hoop or band iron is passed between the pendent guides G' and upright guides F', and directed to one of the

rods E, to which it is held until fairly started, and the iron thus coils on the reel to the desired or required length.

It will be noticed that the rods E are located between the center and circumference of the reels. Consequently the circumferential portions of the arms or sections of the reel serve as guides for causing uniformity in the reeling or coiling of the iron.

It will also be noticed that the several arms or sections permit reeling or coiling of a similar number of lengths or pieces of iron at one operation.

When the coils are completed the reel is stopped, the caps D are raised or opened, and the shaft B is removed from its bearings on the frame A. By displacing the arms or sections of the reel the several coils of iron are removed in condition to be bundled or otherwise treated. The reel is then again built up on the shaft B, and the latter mounted on its bearings on the stand A, and the work may be repeated, the entire operation being simple, convenient, and uniform.

When hoop or band iron is passed directly from a galvanizing-tank the edges of the bar G and plate F serve to remove the surplus metal from opposite sides of the iron, said metal dropping into the trough H, from whence it may be afterward removed, the hinged bar G permitting ready access thereto; but said bar G and plate F also serve as cleaners or scrapers for lengths of iron of other natures than galvanized.

The guides may be separate from the scrapers, if preferred.

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

1. The improved reel C, composed of detachable sections and connections, substantially as set forth, each section having one end open for the removal of the iron without uncoiling the same.

2. The combination of the individually-detachable disks comprised in reel C with interposed collars *a* and horizontal rods E, substantially as set forth.

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