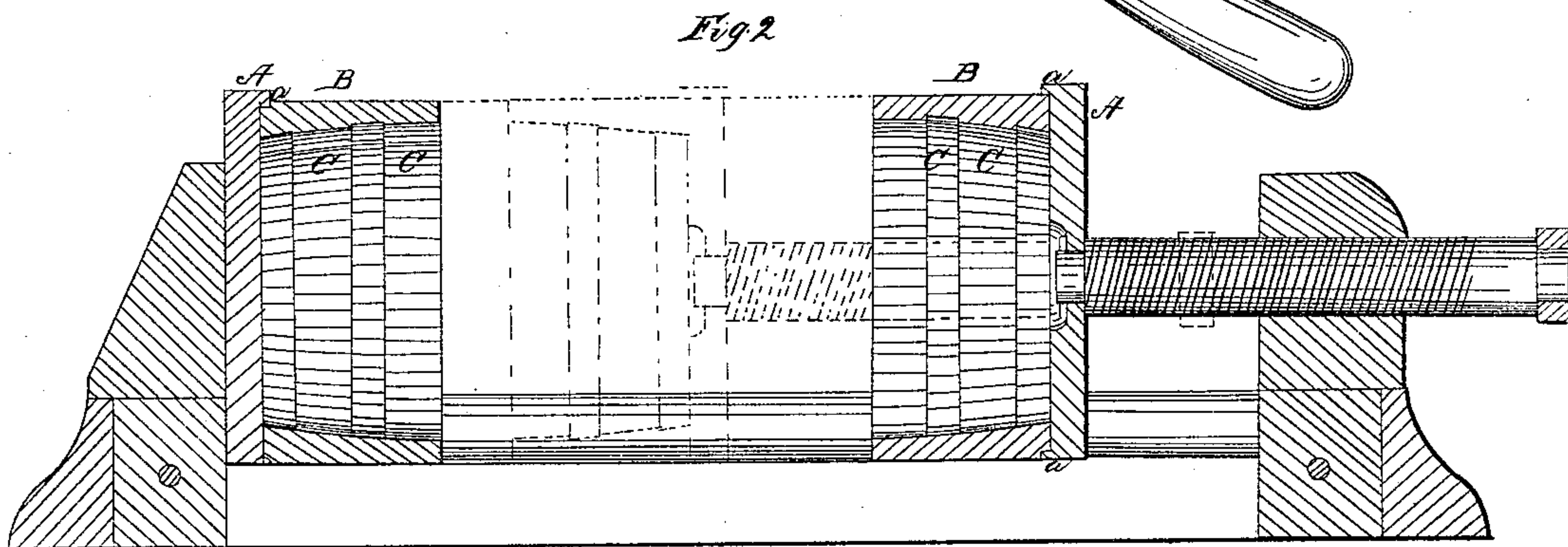
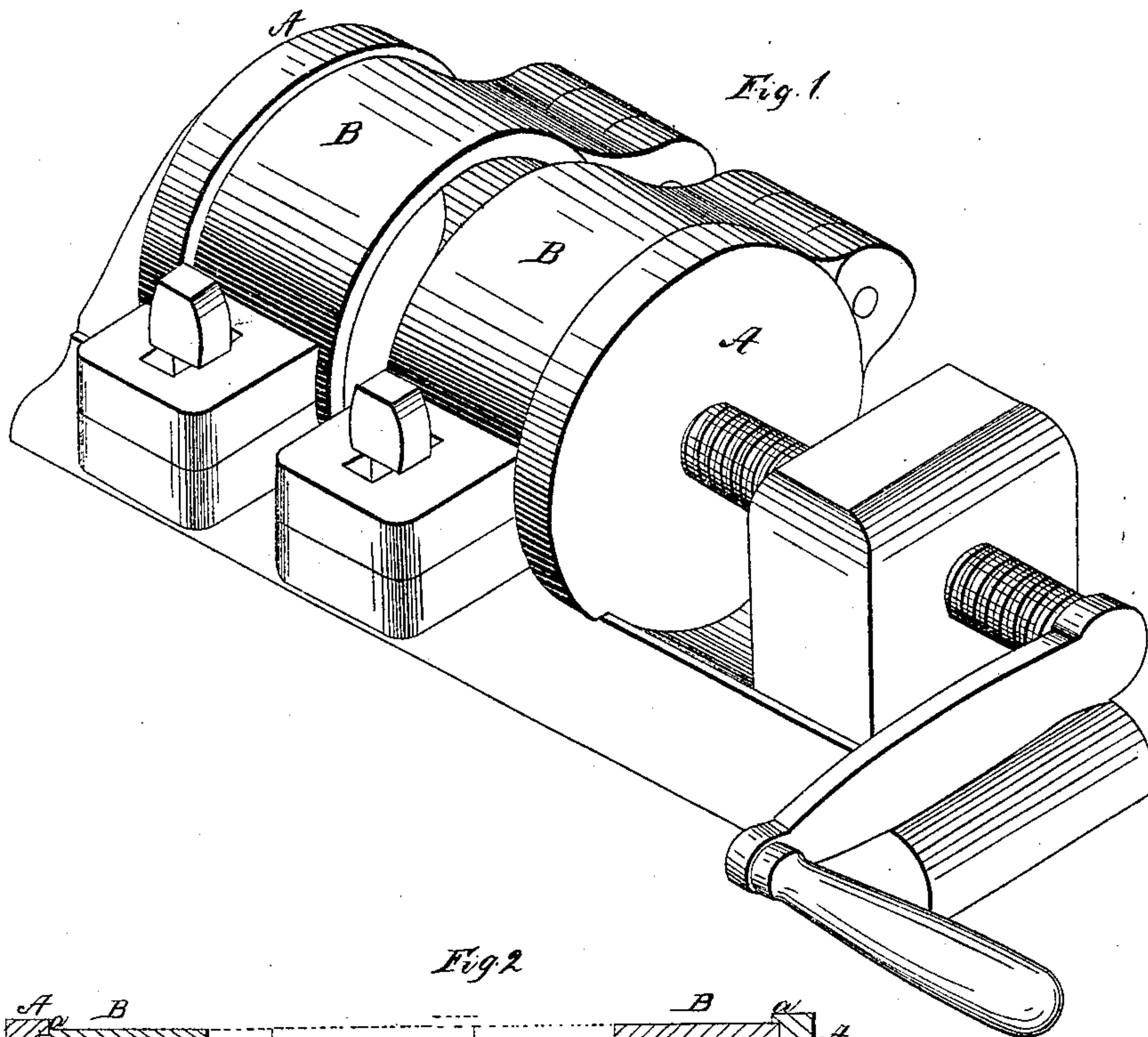


*A. Wyckoff,
Making Barrels.*

N^o 51,643.

Patented Dec. 19, 1865.



*Witnesses
R. Mason
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UNITED STATES PATENT OFFICE.

ARCALOUS WYCKOFF, OF ELMIRA, NEW YORK.

IMPROVEMENT IN BARREL-MACHINES.

Specification forming part of Letters Patent No. 51,643, dated December 19, 1865.

To all whom it may concern:

Be it known that I, ARCALOUS WYCKOFF, of Elmira, in the county of Chemung and State of New York, have invented a new and useful machine for Compressing and Hooping Barrels, Kegs, &c.; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation thereof, reference being had to the accompanying drawings, made part of this specification, in which—

Figure 1 is a perspective view, and Fig. 2 is a longitudinal vertical section.

The same letters refer to identical parts.

The object of this invention is to compress into the ordinary shape of a barrel made of staves the cylindrical kegs cut from a solid block by annular cutters in one piece, and also in any kind of barrel to force the hoops into position by one movement.

A A' are two circular metallic heads, having flanges *a a* upon their inner and opposed faces, as shown in Fig. 2.

B B' are two strong iron rings, composed of two semicircular pieces hinged together at one side, so as to open widely, and fastened on the opposite side by catches or clamps of any convenient style of construction. The outer edges of these rings are turned to fit within the flanges upon the heads A A'. The inner diameter of the rings is that intended for the barrel or keg, and they have the taper of the same on their interior surfaces. In these interior surfaces are cut the chambered recesses C C, of the width and depth of the wrought-iron hoop intended to be made use of. There are as many of these chambers as there are to be hoops.

The heads A A' slide freely on ways of any convenient form, and are moved by a screw or lever, as may be most convenient.

In operating with the machine when it is only designed to compress the cylindrical bodies of

the kegs, the rings slide freely upon the ways inclosing the extremities of the cylinders, and gradually compressing them as the rings are forced together by the action of the press. The rings may be forced enough beyond the chine to permit a hoop to be put on in the ordinary mode.

When the barrel is to be compressed and hooped the hoops are made of the exact sizes required. The jaws of the rings B B' are opened, the rings placed in their proper recesses, and then the jaws are closed around them. The cylinders are placed between the rings, which are separated on the ways, the barrel-heads resting below in the grooves into which they are to be fitted. By the action of the press the head and rings are forced together until all the hoops have reached their intended places. The heads are then drawn back, the jaws of the rings opened, and the barrel lifted out. The red lines in the drawings indicate the shape of the cylinders before and after being pressed, as set forth.

Having thus fully explained the construction and operation of my machine, what I claim as my invention, and seek to secure by Letters Patent, is—

1. Compressing simultaneously the two ends of a hollow cylinder of wood by the action of a press upon tapering rings, substantially as described.

2. The metallic rings B B', with chambered recesses C C, in combination with a press, substantially as and for the purpose set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ARCALOUS WYCKOFF.

Witnesses:

R. MASON,
JOS. PECK.