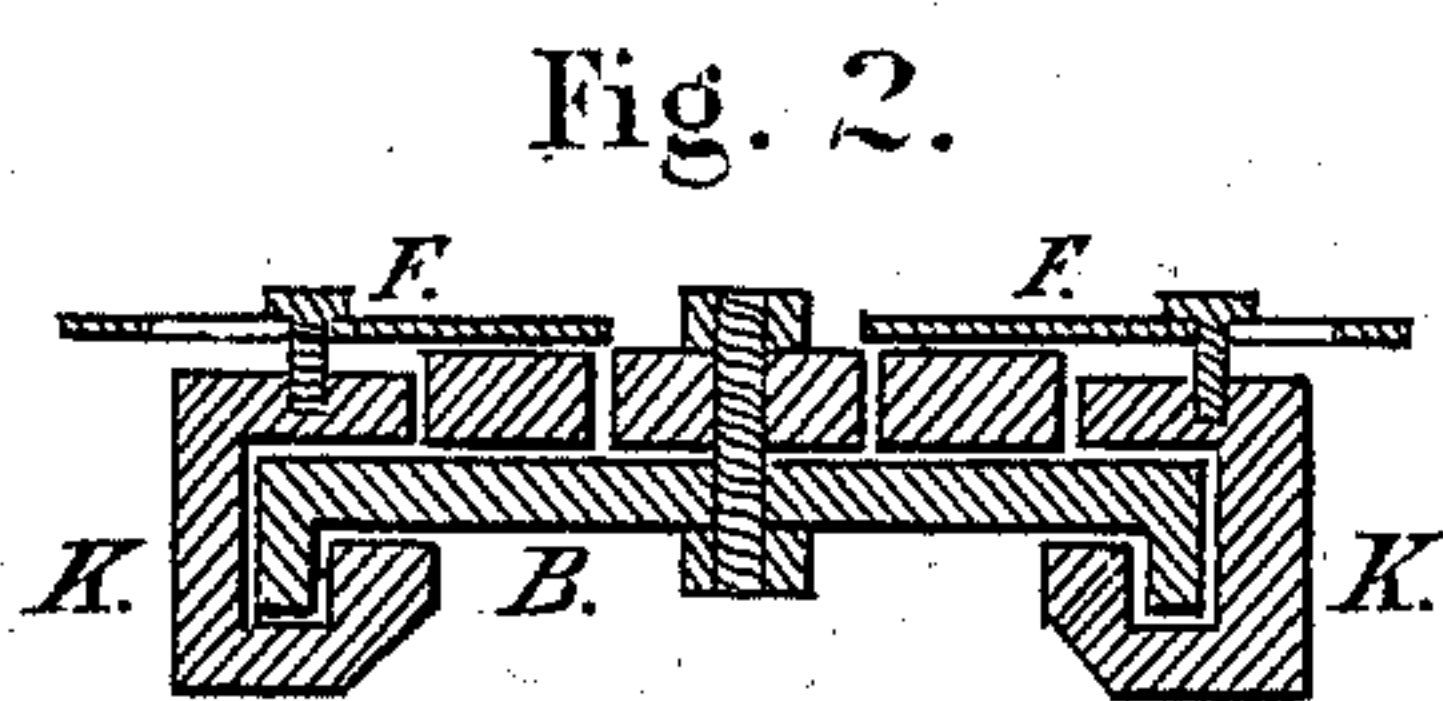
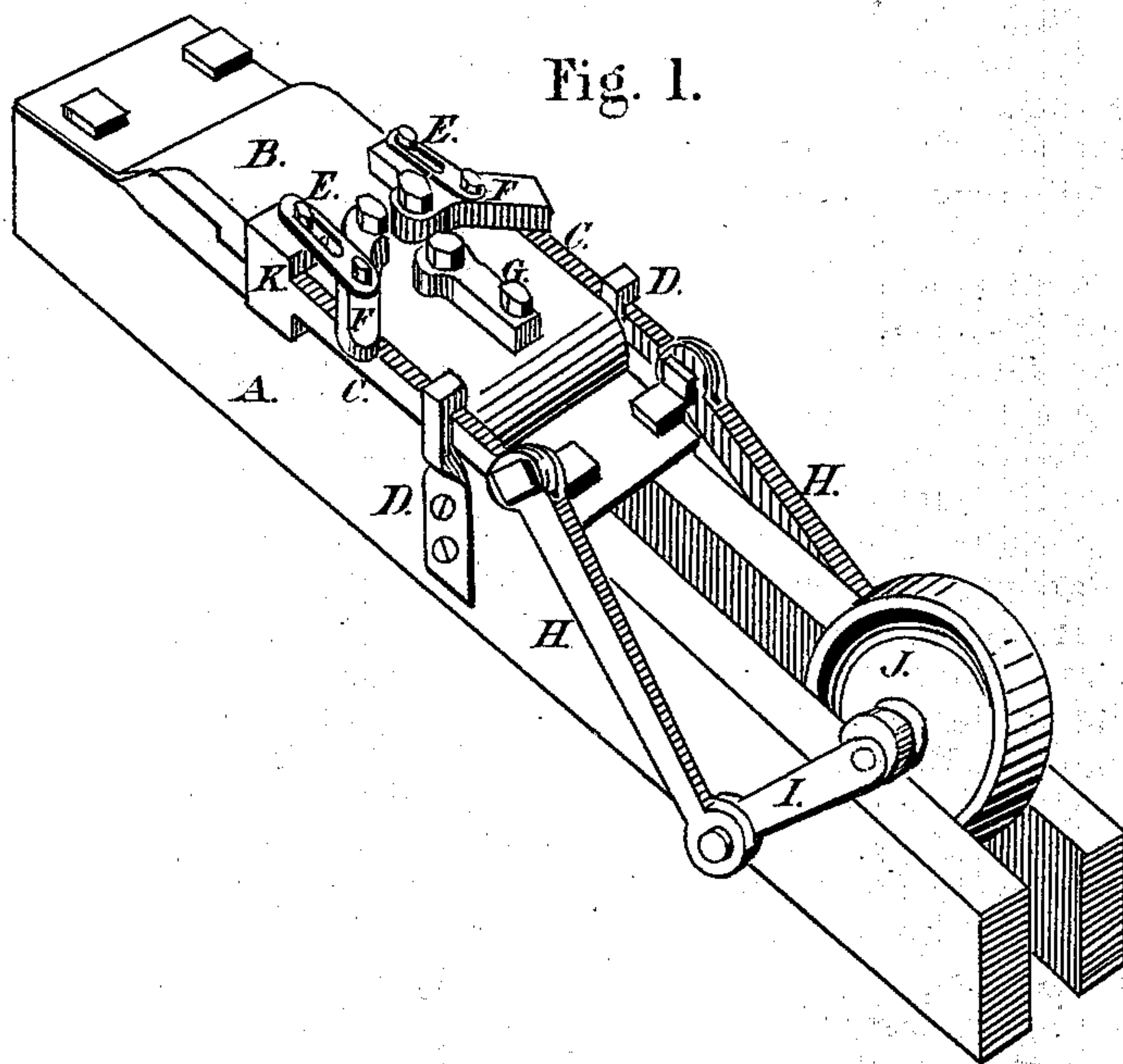


C. F. MOCK.

Machines for Bending Plow-Clevises, Stirrups, &c.

No. 146,771.

Patented Jan. 27, 1874.



WITNESSES.

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UNITED STATES PATENT OFFICE.

CHARLES F. MOCK, OF LOUISVILLE, KENTUCKY, ASSIGNOR OF TWO-THIRDS HIS RIGHT TO JOHN E. CLEMENTS AND RICHARD T. CORNOCK, OF SAME PLACE.

IMPROVEMENT IN MACHINES FOR BENDING PLOW-CLEVISES, STIRRUPS, &c.

Specification forming part of Letters Patent No. **146,771**, dated January 27, 1874; application filed September 9, 1872.

To all whom it may concern:

Be it known that I, CHARLES F. MOCK, of the city of Louisville, county of Jefferson and State of Kentucky, have invented a certain new and useful Improvement in a Device for Bending Stirrups, Clevises, or other similar articles, of which the following is a specification:

This my invention consists, first, in a metal plate made of suitable size, and in form as shown in the drawing. This plate is secured to a wood frame or block, and is made plain on the top, with narrow flanges on the under side of the edges, in order to hold the heads or jaws of the pitmen. These flanges and the edges of the plate are dressed up perfectly true, in order to answer as slides for the pitman-heads that operate the forming-levers. These levers are made of the required shape on the inside, and hinged to the plate by stationary pins or bolts. The central die, on which the stirrup is formed, is shaped so as to correspond with the inside of the levers, leaving sufficient room for the stirrup between them, and is also secured firmly to the plate. These last-named levers are operated by means of flat links, connecting them with the heads of the pitmen, as shown in the drawing. The heads of the pitmen are made large, and so formed as to hook over the flange on the under side of the plate, to prevent their pressing out, while the upper part rests on the plate, and is made sufficiently long to work against the forming-levers to assist in bending the stirrup. The above-named pitmen are made to work through guides fastened to the side of the frame, and are operated by means of links connecting them with crank on a pulley-shaft, as shown in the drawing, which may be driven by steam or any other kind of power.

The object of this my invention is to provide a cheap, simple, and durable device for bending stirrups, clevises, and other similar articles, operated by hand or any other kind of power, in order to accomplish the desired object with greater speed, and at the same time turn out a superior article, when finished,

at a greatly-reduced price, with a saving of much time and labor over and above the ordinary means now in use to accomplish the same object.

Figure 1 is a perspective view of the machine, showing its general construction. Fig. 2 is a sectional view, showing the flanges on the under side of the plate.

In the drawings, A is the frame, on which the whole device is fastened, and is made of wood in any suitable form. B is the plate, to which all the working parts are attached, which are all made of iron. This last-named plate is also made of iron, plain on the top, except near the ends, where it is set down slightly to clear the bolt-nuts, and is provided with small flanges on the under side, at the edges, to prevent the pitman heads or jaws from pressing out while in operation. C C are the pitmen, which are made of iron, and in form as shown in the drawing. D D are the guides on the side of the frame. The heads of the last-named pitmen are made very strong, and cut out in the inside so as to correspond with the shape of the slides on which they work. The top part of the heads are made flat, and extend in on the plate so as to work against the forming-levers, to assist in pressing up the levers in bending the stirrup. These heads are also provided with a bolt or pin in the top, on which a flat link, with slot-hole, works loosely at one end, while the other works on a similar pin in the top of the forming-levers. E E are three connecting-links, which are made of flat iron, with slot-hole in one end and a round one in the other, by which it is attached to the forming-levers loosely. F F are the forming-levers, which are made of iron, and hinged to the plate, as shown in the drawing. G is the central die, which is secured firmly to the plate by means of bolts, so as to be easily changed, and may be made in any form to suit the kind of work to be done. H H are the links that connect with the cranks of the pulley-shaft. I I are the cranks. J is the belt-pulley. K K are the pitman heads or jaws.

Having thus fully described the drawings,

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

The combination of the pitmen C C, links E E, levers F F, and central die G, as above described, when the pitmen are made to slide on the edges of the plate, with the links H H, cranks I I, and pulley J, when arranged, con-

structed, and operated substantially as and for the purpose herein set forth.

CHARLES F. MOCK.

Witnesses:

WILL B. BOIES,
FRANK PARDON.