

G. A. CHAPMAN.

MACHINE FOR FIXING COUPLINGS TO SHAFTS.

No. 170,524.

Patented Nov. 30, 1875.

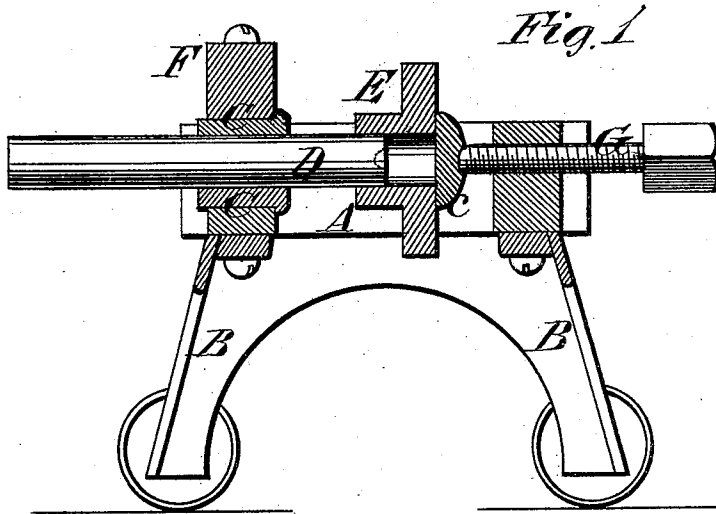


Fig. 1

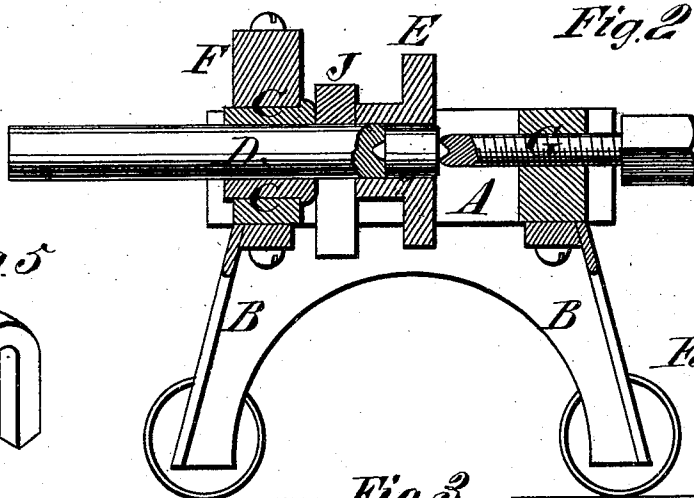


Fig. 2



Fig. 5

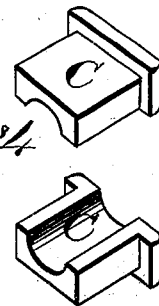


Fig. 4

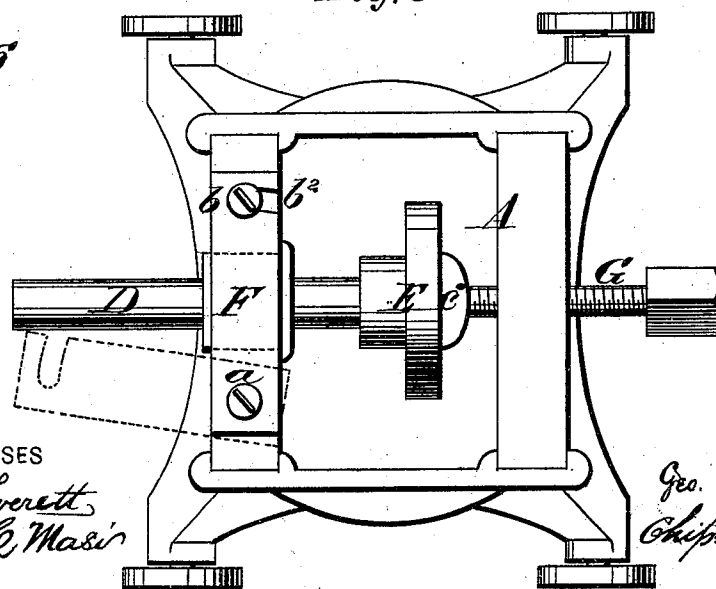


Fig. 3



Fig. 6

WITNESSES

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IMPROVEMENT IN MACHINES FOR FIXING COUPLINGS TO SHAFTS.

Specification forming part of Letters Patent No. **170,524**, dated November 30, 1875; application filed October 30, 1875.

To all whom it may concern:

Be it known that I, GEORGE A. CHAPMAN, of Woonsocket, in the county of Providence and State of Rhode Island, have invented a new and valuable Improvement in Shaft-Coupling Forcing Machine; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings making a part of this specification, and to the letters and figures of reference marked thereon.

Figures 1 and 2 of the drawings are representations of vertical longitudinal sections of my coupling device, and Fig. 3 is a plan view thereof. Figs. 4, 5, and 6 are detail views.

This invention has relation to means for securing coupling flanges or collars on the ends of shafts; and the nature of my invention consists in the combination, with clamping-blocks, of a forcing-screw mounted in a suitable frame or carriage, as will be hereinafter explained.

In the annexed drawings, A designates a rectangular frame, which is strongly put together and mounted on legs B, which may or may not be sustained by rollers. A rectangular recess is made in one of the cross-bars of frame A, in which two flanged or plain clamping-blocks, C C, are applied, between which the shaft D is confined to receive its coupling or collar E. When shaft D is applied between the blocks C a cap, F, which is pivoted at *a*, is swung around over the upper

block and forcibly pressed down by means of a screw, *b*, which passes through a slot, *b*², in the free end of said cap. Having secured the shaft D against end movement, the collar E is adjusted partly on the end of this shaft and forced home thereon by means of a screw, G, the inner end of which is beveled and recessed, as shown in Fig. 2.

A cap, *c*, should be adjusted between the coupling E and screw G, for the latter to act against when forcing a coupling on shaft D.

To remove the coupling from the shaft a saddle, J, is adjusted on the shaft, as shown in Fig. 2, and a block, *g*, slightly smaller than the bore of the coupling, is placed between the screw G and shaft D, and the latter is forced from the coupling, as shown in Fig. 2.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In combination with clamping-blocks C or their equivalent, the clamping-cap F and the screw G mounted in a frame, substantially in the manner described.

2. In a machine for forcing couplings on shafts, the cap F in combination with a clamping device and a screw, G, substantially as described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

GEORGE A. CHAPMAN.

Witnesses:

GEORGE A. WILBUR,
CHRISTOPHER ROBINSON.