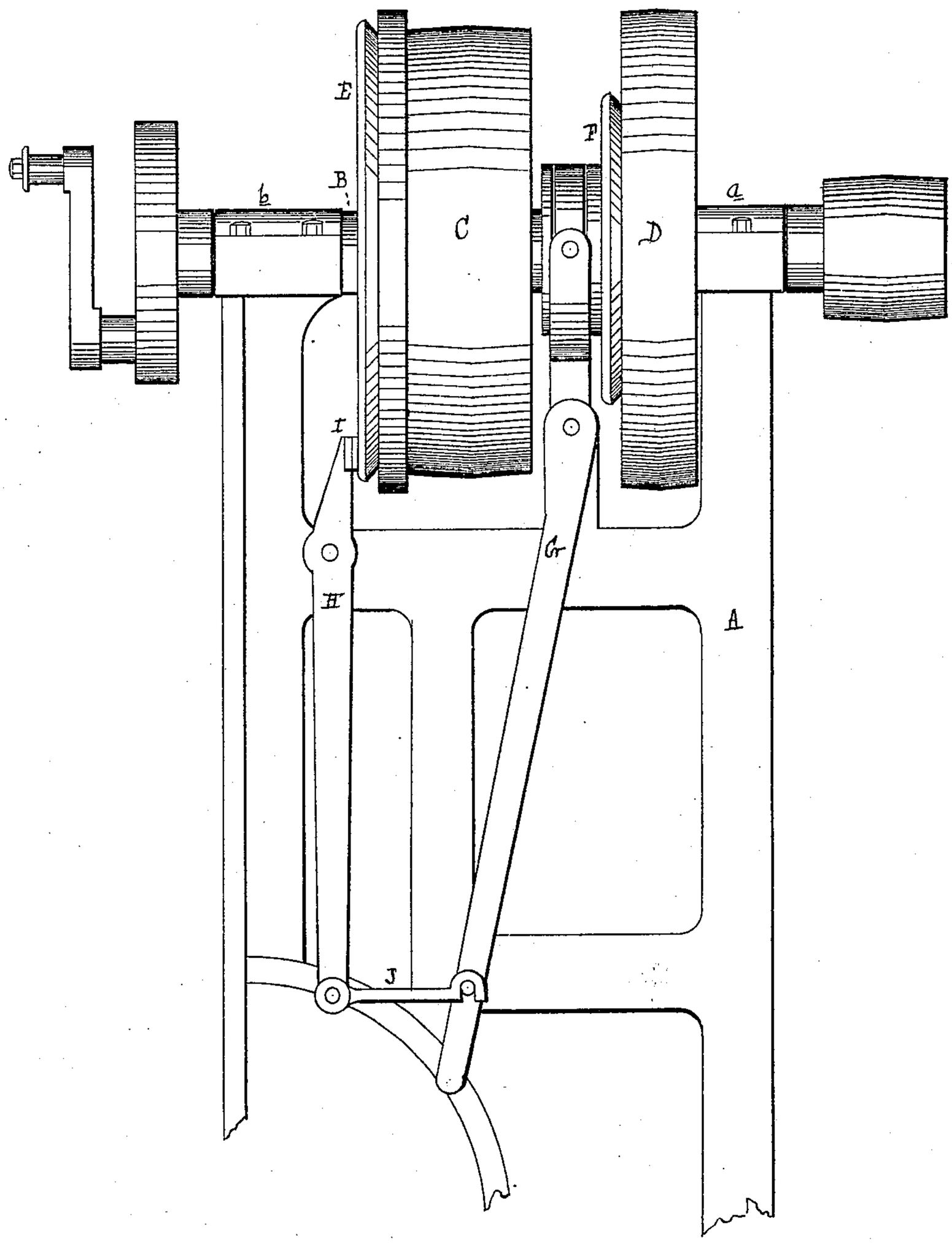
(No Model.)

C. SEYMOUR.

MORTISING MACHINE.

No. 267,465. Patented Nov. 14, 1882.



Witnesses
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UNITED STATES PATENT OFFICE.

CHARLES SEYMOUR, OF DEFIANCE, OHIO, ASSIGNOR TO THE DEFIANCE MACHINE WORKS, OF SAME PLACE.

MORTISING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 267,465, dated November 14, 1882.

Application filed July 12, 1882. (No model.)

To all whom it may concern:

Be it known that I, CHARLES SEYMOUR, of Defiance, in the county of Defiance and State of Ohio, have invented new and useful Improvements in Mortising-Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, which forms a part of this specification.

The nature of this invention relates to certain new and useful improvements in the construction of mortising-machines of that class described in the patent to Charles C. Strong, David B. Turnbull, and myself, No. 239,881, dated April 5, 1881; and the invention consists in the combination, upon the main driving-shaft of such machine, of a system of frictional clutches and pulleys, by means of which the operator is enabled to start and stop simultaneously and promptly all the movements of such machine except that of the boring-spindle, which, by a reverse movement of the clutch-lever, is brought into action or released independently of the parts of the machine which govern the movements of the chisels, as more fully hereinafter described.

In the accompanying drawing, which forms a part of this specification, the figure represents an elevation of my invention.

A represents the vertical frame which carries the working parts of the machine, upon the top of which, and within the boxes *a b*, is journaled the shaft B. Upon this shaft runs the loose pulley D, and sleeved upon the shaft is a clutch provided with a pulley, C, and a friction-pulley, F.

E is another frictional pulley, rigidly secured upon the shaft.

G is a lever by means of which the clutch is actuated, and when the friction-pulley F is engaged with the pulley D a belt (not shown) from said pulley gives motion to the boring apparatus below, and this motion withdraws the pulley C from contact with the rigid friction-pulley E. A reverse of this motion, disengaging the friction-pulley F from the loose pulley D, stops the motion of the boring apparatus and brings the pulley C into contact with the rigid friction-pulley E, and through the connections on the end of the shaft give motion to the mortising and gigging part of machine.

H is a lever, upon the end of which is secured the brake I, designed, by contact with the face of the rigid pulley E, when applied, to arrest the motion of the shaft B. A latch-link, J, secured to the lower end of the brake-lever H, may be hooked to the lever G, as shown, in which case both levers may be actuated simultaneously. By unhooking this link-connection the levers may be actuated independently of each other, as occasion may require.

I have not illustrated the parts of the boring-machine proper; but it being understood that the pulley D operates by belt-connection the boring apparatus, and the crank-connections at the end of the main shaft operate the mortising and gigging devices, and that these devices are substantially as shown in the patent hereinbefore cited, the operation will be sufficiently understood.

What I claim as my invention is—

1. The power-pulley C, friction-pulley F, lever G, and connections, combined with the loose pulley D and connections with the boring mechanism, and with the shaft B, having rigid friction-pulley E, as and for the purposes specified.

2. The power-pulley C, friction-pulley F, pulley D, and shaft B, having rigid pulley E, combined with the lever G, lever H, brake I, and latch-link J, as and for the purposes specified.

CHARLES SEYMOUR.

Witnesses:

P. KETTENSING,

F. G. BROWN.