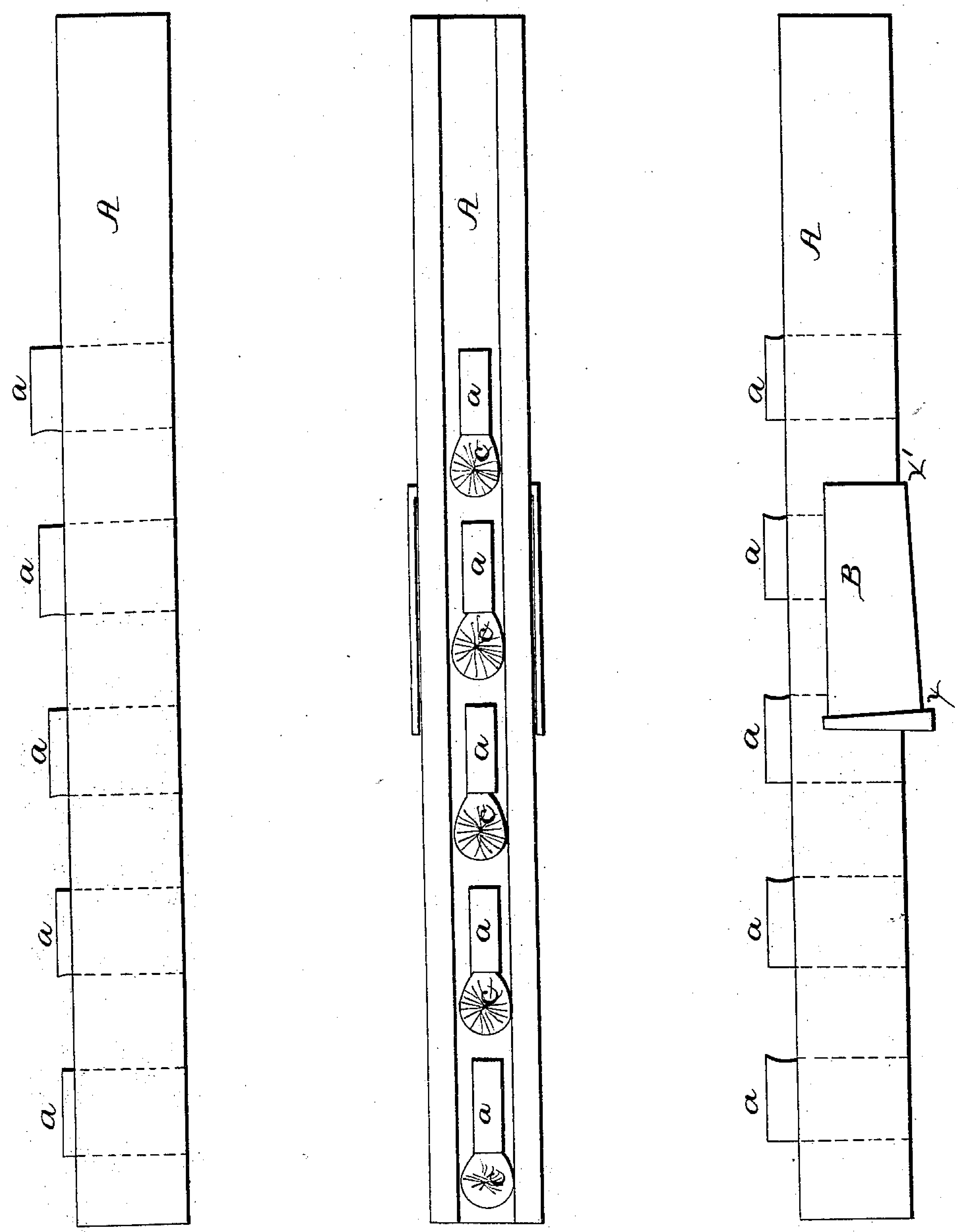
J. Barton.

Slotting Key Seats.

No. 22,155. Patented Nov. 30, 1858.



Witnesses;
C. A. Yeatman
Edwd Marshall

Inventor;
James Barton
per C. M. Alexander atty

UNITED STATES PATENT OFFICE.

JAMES BARTON, OF CLEVELAND, OHIO.

TOOL FOR CUTTING KEY-SEATS IN WHEELS AND PULLEYS.

Specification of letters Patent No. 22,155, dated November 30, 1858.

To all whom it may concern:

Be it known that I, JAMES BARTON, of Cleveland, Cuyahoga county, and State of Ohio, have invented certain new and useful Improvements in Machines for Cutting Key-Seats in Pulleys and Wheels; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings and to the letters of reference marked thereon.

The nature of my invention in providing a shaft, with a series of square cutters which are adjustable, and using therewith for cutting a tapering key seat a circular wedge plate as will be hereinafter described.

In the annexed figures A, represents a metal shaft of any suitable dimension. This shaft is provided with a number of slots into which slots are inserted and secured a series of cutters *a*, *a*, *a*, *a*. These cutters are made of steel and are formed to correspond with the shape of the hole they are desired to cut. They are represented here as being square, their forward end being slightly concave.

c, *c*, *c*, are a series of depressions in the shaft immediately in front of the cutters for the purpose of containing the shavings of metal, allowing the shaft to pass through the wheel or pulley without being obstructed by said shavings.

B, is a circular wedge shaped piece of metal which is inserted in the hole of the wheel or pulley on the opposite side from that where it is desired to cut the key seat—the shaft then being inserted and driven through a tapering seat will be cut to correspond with the taper of the wedge. These cutters it will be perceived are not all of the same height—the first one being placed at a certain distance from the shaft, the next is placed a little higher, and the next a little higher than it and so on they all being in a regular graduation. These cutters may be readily removed from the shaft which contains them and may be ground or sharpened up, and again returned. I do not propose any particular mode of driving this shaft through wheels and pulleys as I may do it by means of any of the mechanical powers with which sufficient force may be obtained.

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

1. The employment of the shaft A, provided with a series of cutters which are adjustable, the two being so arranged that by pressing them through the hole, or bore of a wheel, or pulley a key seat is finished parallel with the bore, as is herein fully set forth.

2. The employment of a tapering circular slip or wedge between the cutter shaft, and the bore of the wheel or pulley, on the opposite side from the cutters while the key seat is being cut for the purpose of cutting a tapering key seat as is herein fully described.

JAMES BARTON.

Witnesses:

DANIEL STEPHAN,

WM. JOSLIN.