

No. 753,675.

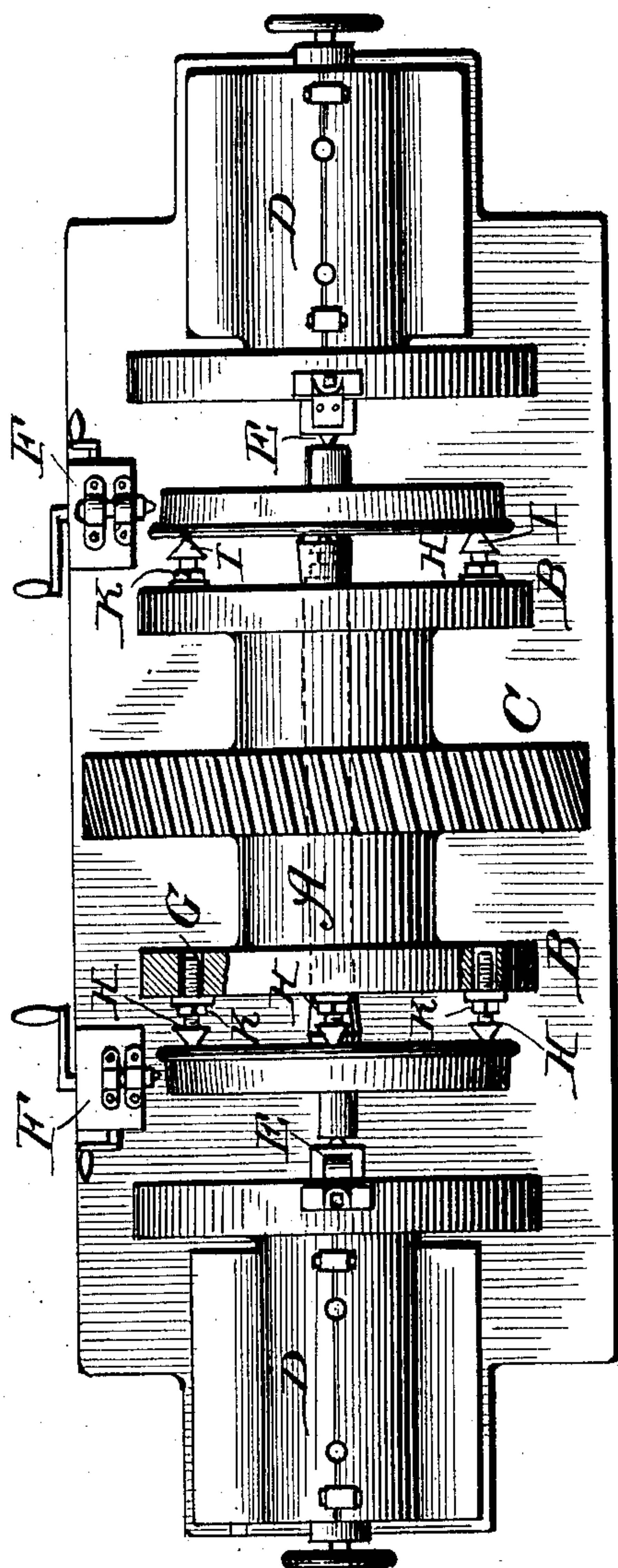
PATENTED MAR. 1, 1904.

J. R. CROWLEY.  
WHEEL LATHE.

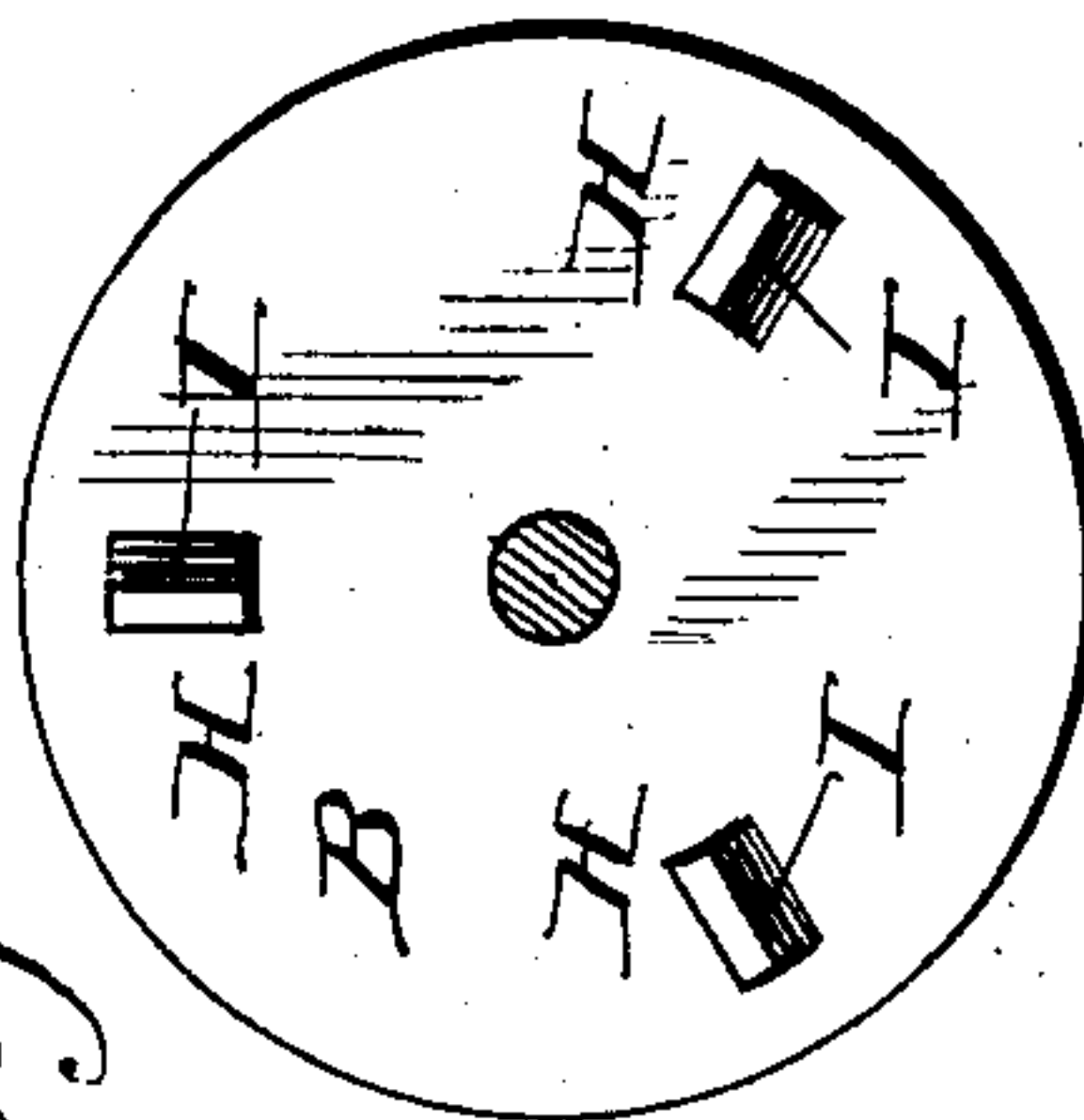
APPLICATION FILED JUNE 20, 1903.

NO MODEL.

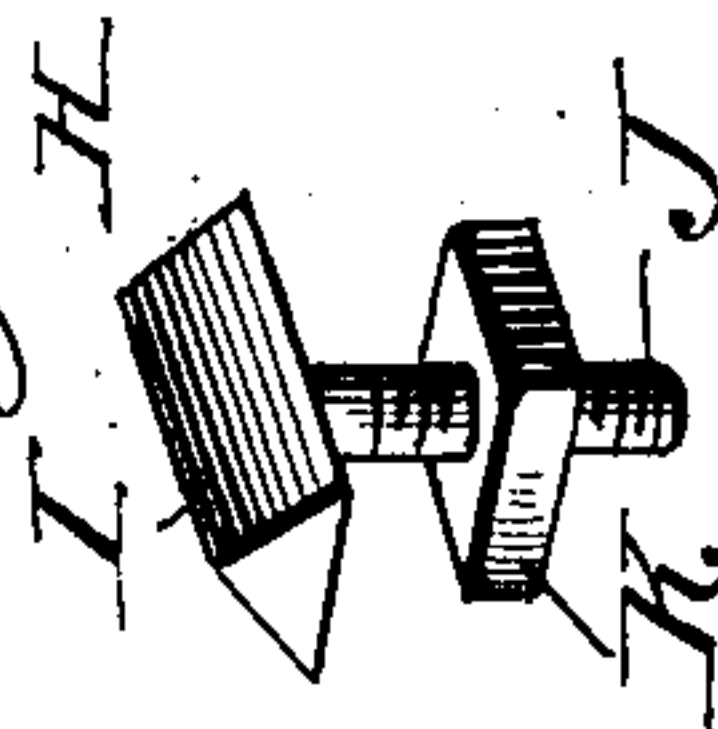
*Fig. 1.*



*Fig. 3.*



*Fig. 2.*



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# UNITED STATES PATENT OFFICE.

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## WHEEL-LATHE.

SPECIFICATION forming part of Letters Patent No. 753,675, dated March 1, 1904.

Application filed June 20, 1903. Serial No. 162,336. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN ROBERT CROWLEY, a citizen of the United States, and a resident of Savannah, in the county of Chatham and State of Georgia, have invented certain new and useful Improvements in Wheel-Lathes, of which the following is a specification.

This invention relates to wheel-lathes, more definitely stated work-driving means for wheel-lathes.

It consists in the peculiar and improved work-driving means, which will hereinafter be fully described, and the novel features pointed out in the claim.

In order to enable others to make and use my invention, I will now proceed to describe it in detail, with reference to the accompanying drawings, forming a part of this specification, and in which—

Figure 1 is a top plan view of a car-wheel lathe, illustrating my invention in use, and Fig. 2. is a perspective view showing one of my chucking-dogs. Fig. 3 is a detail plan view of one face-plate and its chucking-dogs.

The special object of my invention is to simplify and improve the work-driving devices heretofore employed in connection with car-wheel-turning lathes.

In the practice of my invention I may employ any type of center-drive lathe. In the drawings I show only so much of a common form of this type or lathe as will render my invention understood.

In the drawings, A represents a common form of center casting employed with car-wheel lathes, having face-plates B B and an intermediate worm-wheel C. The center casting support or bearing, as also its driving means, being well understood and forming no part of my invention, I have not deemed it necessary to show them in the drawings.

DD represent tail-stocks with any preferred adjusting means and having adjustable center pins E.

F represents a suitable tool-post and tool having longitudinal and transverse adjustment by means well understood.

According to my invention the face-plates

B are provided with a series of openings G, in which I arrange peculiar chucking-dogs H.

The construction or form of my work-driving dogs will be understood by reference to Fig. 2. They have an elongated chisel-pointed head I and a screw-threaded shank J, upon which latter a screw-threaded nut K is arranged. The openings G in the face-plates B are made somewhat larger than the shanks J, and thereby adapted to loosely receive them. In using my invention the tail-stocks D are adjusted back, and the car-axle, with its wheels thereon, is arranged in the center casting A, as now done and well understood. The tail-stock is next run up, adapted for proper placement of the center pins E in contact with the ends of the car-axle. The dogs H are then adjusted to position with their chisel-pointed heads in contact with the inner side of the car-wheels and tightened by turning their nuts K. Obviously when the nuts K are turned on the threaded shanks J of the dogs H the latter will be forced out with effect to chuck and brace the car-wheels.

In the drawings I have shown three driving-dogs in each face-plate B, equally spaced and in line on opposite face-plates. In use the pressure on the dogs being equal and also in opposite directions to travel on the tool-post and tool and as near to the tool as is practical to get it makes a secure chucking which cannot spring or trip under the heaviest cuts.

With my invention wheels on axles may be turned on their original centers and more rapid and accurate work done than possible with any similar car-wheel lathe known to me.

I have shown and described my driving-dogs as applied to a center-drive lathe, but obviously they are adapted for use with lathes having end or outside drive, and therefore I would have it understood that my invention comprehends the use of similar driving-dogs on inside or outside drive lathes of any character having face-plates adapted to provide support for my dogs and centering-pins adapted for engagement with the original car-axle centers.

Having thus described my invention, what I



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

In a car-wheel lathe, work-driver means consisting of a driven face-plate having spaced  
5 transverse openings as specified, dogs having elongated chisel-shaped heads and screw-threaded shanks, the said shanks being adapt-

ed to pass loosely into the said openings in the face-plate, and adjusting-nuts on the said dogs substantially as described.

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Witnesses:

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