

(No Model.)

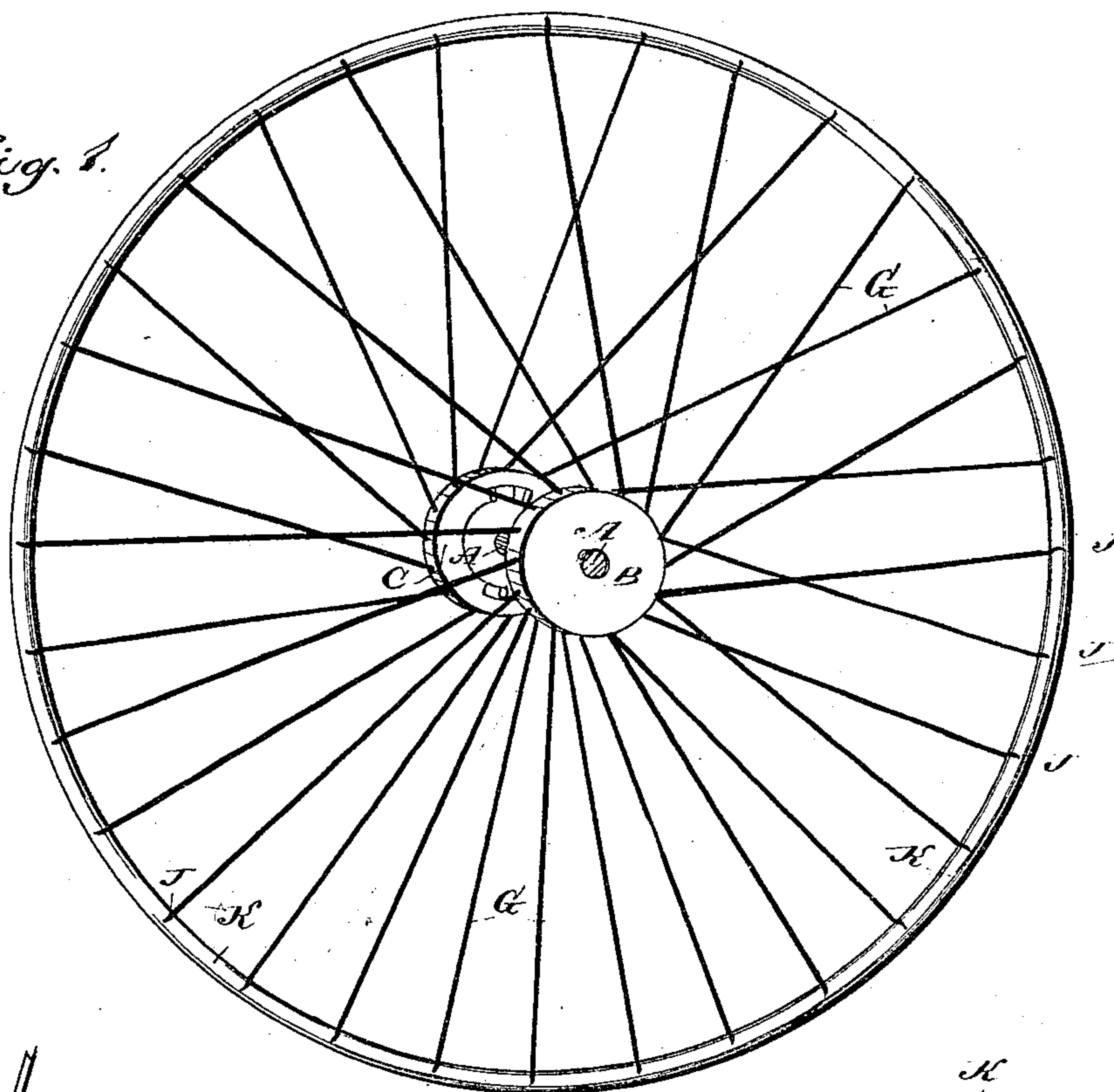
F. X. MYER, Jr.

WHEEL.

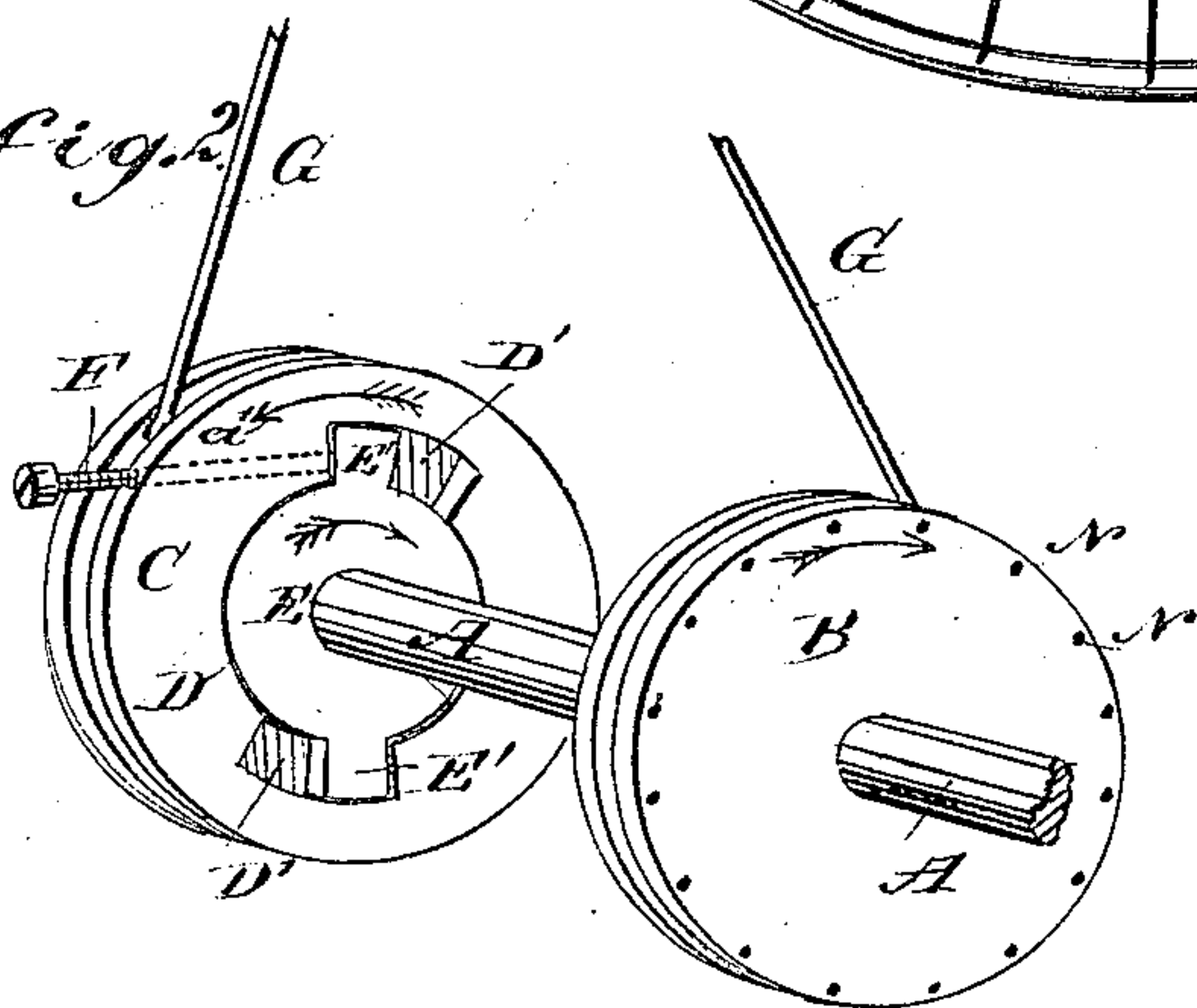
No. 270,461.

Patented Jan. 9, 1883.

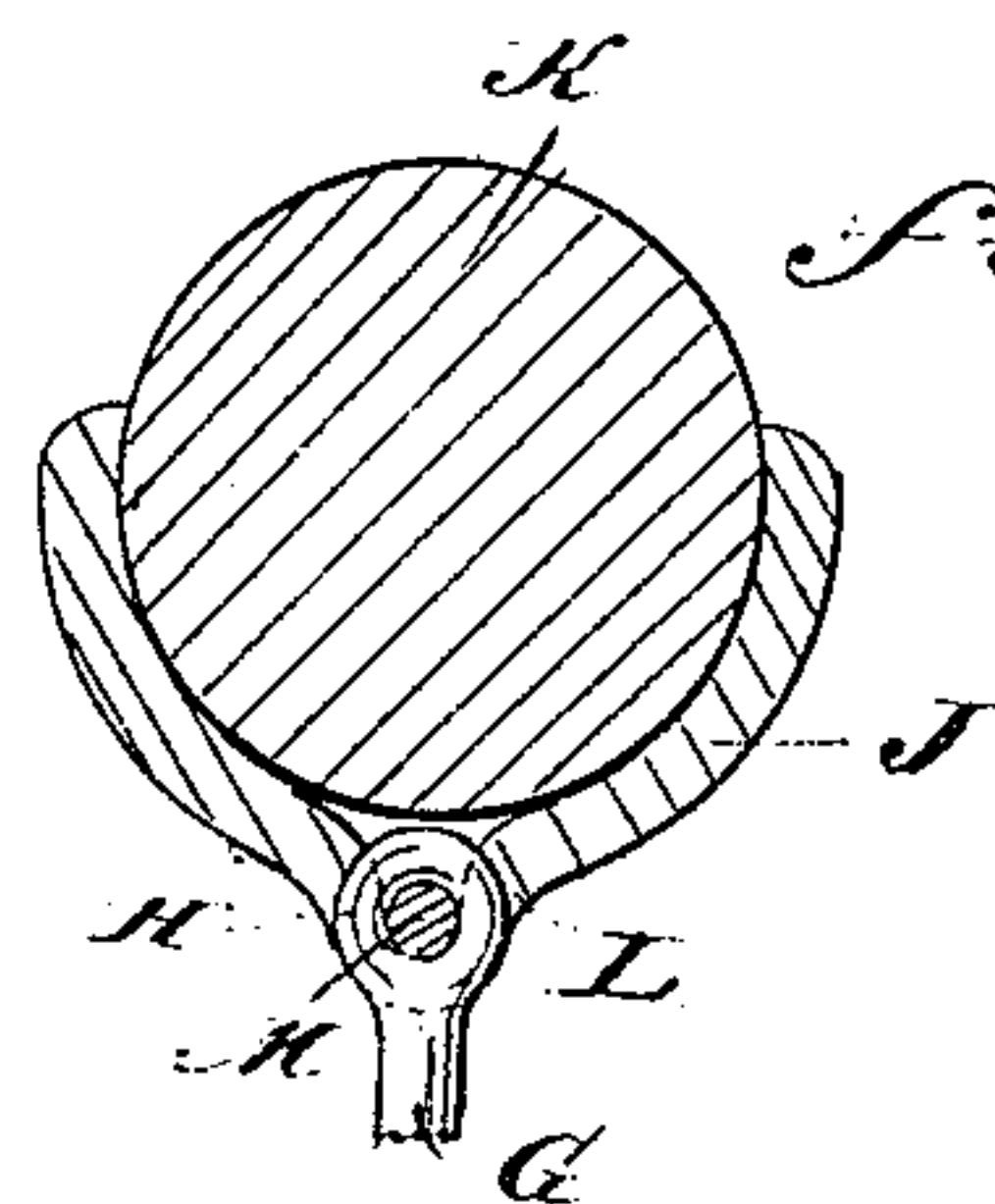
*Fig. 1.*



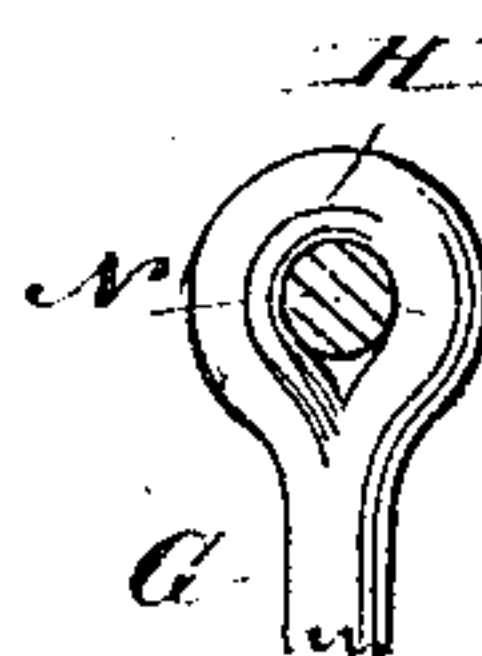
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



WITNESSES:

*Wm Beyer*  
*C. Sedgwick*

INVENTOR:

*F. X. Myer Jr.*  
BY *Shuman & Co.*  
ATTORNEYS.

# UNITED STATES PATENT OFFICE.

FRANK X. MYER, JR., OF LOGAN, ASSIGNOR TO HIMSELF AND CHARLES O. MYERS, OF HOCKING COUNTY, OHIO.

## WHEEL.

SPECIFICATION forming part of Letters Patent No. 270,461, dated January 9, 1883.

Application filed August 10, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK X. MYER, Jr., of Logan, in the county of Hocking and State of Ohio, have invented a new and Improved  
5 Wheel, of which the following is a full, clear, and exact description.

The invention consists in the improvement of vehicle-wheels by combining certain parts thereof, as hereinafter described and claimed.

10 Figure 1 is a perspective view of my improved wheel. Fig. 2 is a detail perspective view of the hub. Fig. 3 is a cross-sectional view of the felly. Fig. 4 is a detail view of the end of a spoke of the wheel.

15 On one end of a shaft or axle-box, A, a disk, B, is rigidly mounted, and on the opposite end a disk, C, of like size, is loosely mounted. The disk C is provided in its inner side surface with a circular recess, D, provided with two opposite segmental enlargements, D'. A disk, E, provided with two opposite segmental enlargements, E', which are smaller than the enlargements of the recess D', is rigidly mounted on the shaft A, and is contained within the recess D, the enlargements  
25 E' passing into the enlargements D'. A screw, F, passes from the periphery of the disk C through the disk chordially, the inner end of the screw passing into one of the enlargements  
30 D'. The spokes G, made of thick wires or metal rods, have an eye or loop, H, at each end. The felly J is made in the shape of a circular trough, and is provided with recesses L, into which the loops H at the outer end of the spokes G are inserted, which loops are held in the recesses by pins M, passed through the loops or eyes H of the spokes. The tire K is made of rubber, is placed in the groove or trough of the felly, and is held in the same  
40 in some suitable manner. The inner end of the spoke is inserted in the circularly-grooved edges of disks B C, and pins N are passed through the disks and the eyes of the spokes.

The parts are united as follows: The spokes  
45 are secured to the fellies and the inner ends are alternately secured to the disks B and C.

Then the screw F is turned to pass deeper into the disk C. As its inner end rests against a lug or enlargement E' of the fixed disk E, the loose disk C will be turned in the direction of the arrow a', whereby the lugs E' will  
50 be moved toward the opposite sides of the enlargement D' of the recesses, and at the same time the spokes G will be stretched and drawn taut. As the disk B is rigidly mounted on the  
55 shaft A, the spokes G, attached to the same, will also be drawn taut and stretched in the opposite direction. A filling-piece is then placed between the lower lug E'—that is, the lug E' against which the screw F does not  
60 rest—and the side of the corresponding enlargement, D', for the purpose of holding the disk E in place. Then the screw F is loosened or withdrawn, and a filling piece is placed in the other enlargement, D'. This is repeated  
65 until the spokes are as taut as may be desired.

I am aware that it is not new to make a wheel with a continuous T-felly, metallic rods for spokes, and a hub having a flange at each end for the spokes, or to connect the hub with  
70 the felly by flexible spokes, or to use two spoke-divisions fastened in two hub-bands; but

What I do claim as new and of my invention is—

1. In a wheel, the combination, with the  
75 fellies J and the spokes G, of the shaft or axle A, the fixed disk B, the fixed disk E, provided with opposite lugs, E', the loose disk C, provided with a recess, D, having opposite enlargements, D', and of the screw F, substantially as herein shown and described, and for the purpose set forth.

2. In a wheel-hub, the combination, with a shaft or axle, of a loose disk having a recess  
85 and opposite enlargements on one side, an adjusting-screw, and a rigid disk with opposite lugs, as and for the purpose set forth.

FRANK X. MYER, JR.

Witnesses:

CHARLES O. MYERS,  
FLAVIUS S. CASE.