

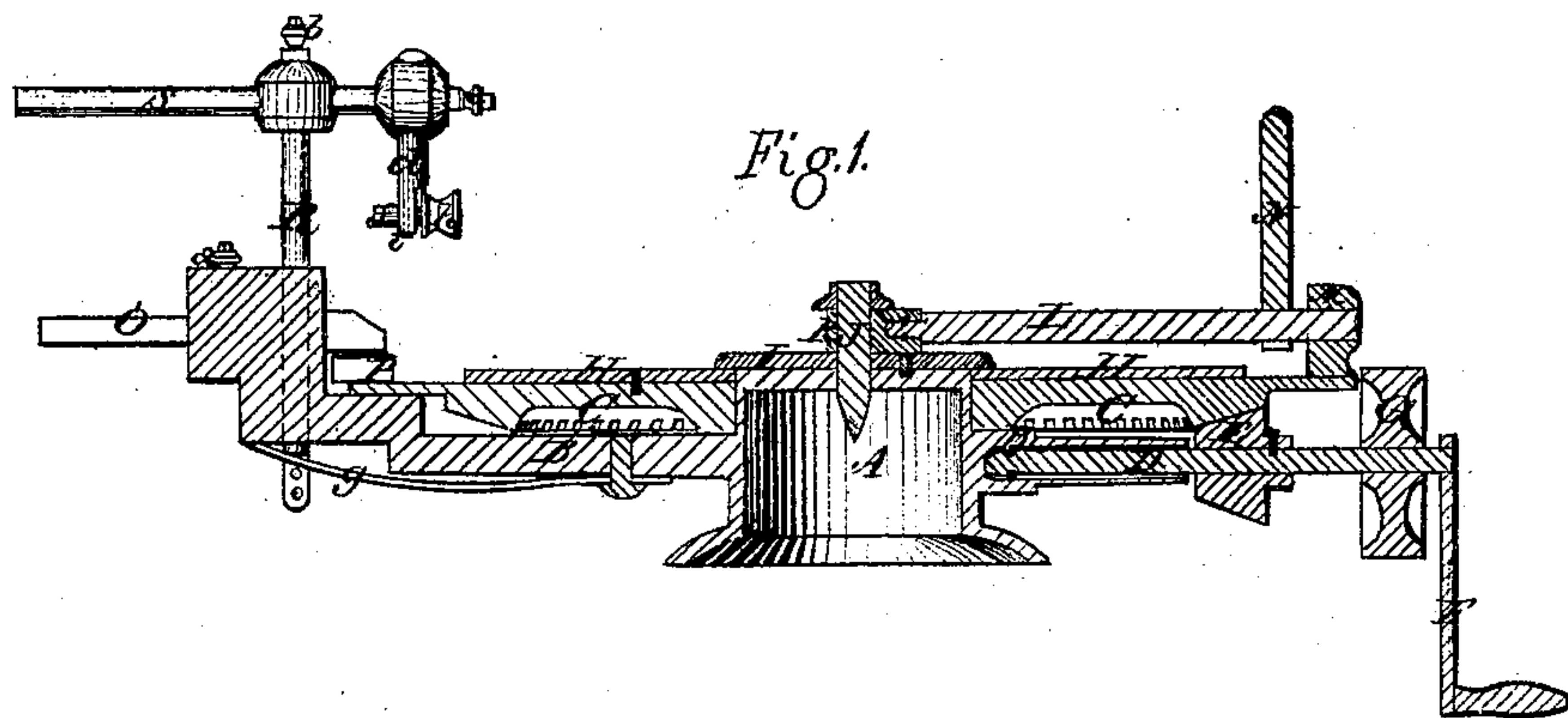
*G. W. Heckart,*

*2. Sheets, Sheet 1.*

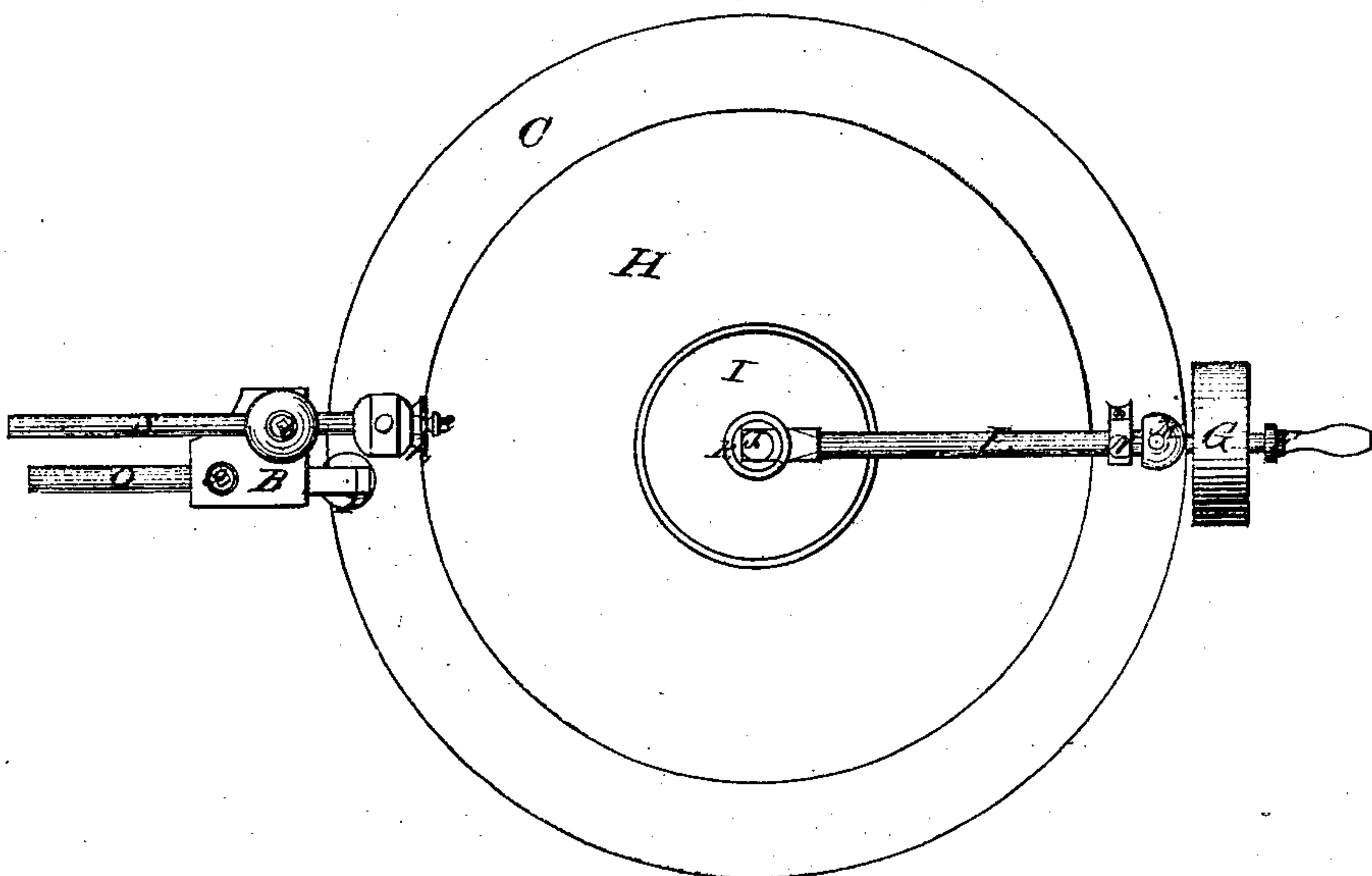
*Fifth Wheel Bender.*

*No. 95,585.*

*Patented Oct. 5. 1869.*



*Fig. 2.*



*Witnesses*

*Henry N. Miller*  
*John A. Ellis*

*Inventor*

*G. W. Heckart.*  
*Per*  
*J. H. Alexander*  
*Atty.*

2. Sheets, Sheet 2.

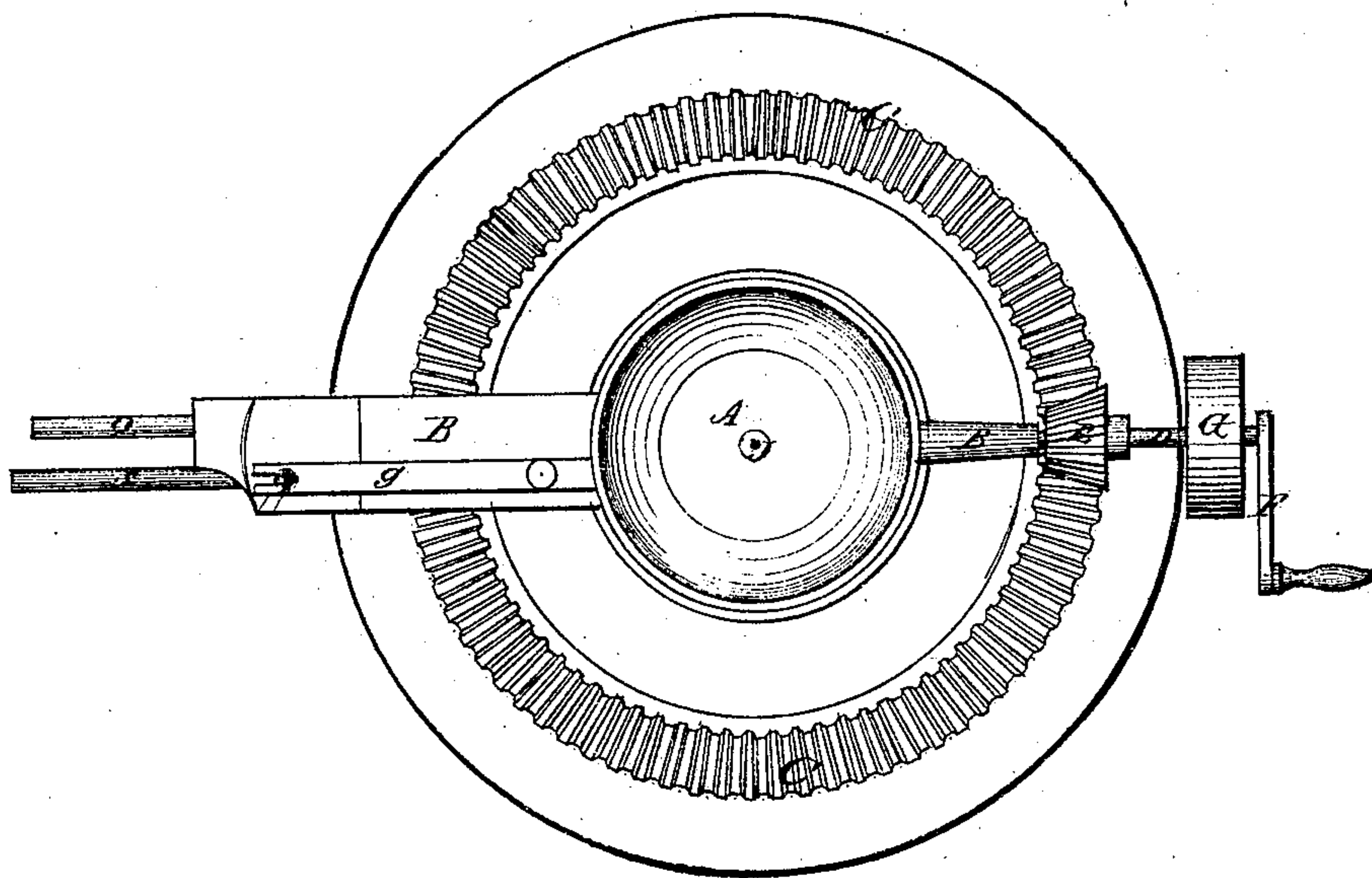
G. W. Heckart,

Teeth Wheel Bender.

No. 95,585.

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Fig. 3.



Witnesses

John A. Ellis,  
H. N. Miller.

Inventor

Geo. W. Heckart.

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J. H. Alexander,

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# United States Patent Office.

GEORGE W. HECKART, OF NEW LISBON, OHIO.

*Letters Patent No. 95,585, dated October 5, 1869.*

## IMPROVED MACHINE FOR BENDING FIFTH-WHEELS.

The Schedule referred to in these Letters Patent and making part of the same.

*To all whom it may concern:*

Be it known that I, GEORGE W. HECKART, of New Lisbon, in the county of Columbiana, and State of Ohio, have invented certain new and useful Improvements in Machines for Bending Fifth-Wheels; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

The nature of my invention consists in the construction and general arrangement of a "machine for bending platform wagon-circles and fifth-wheels."

In order to enable others skilled in the art to which my invention appertains, to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a longitudinal vertical section, and

Figure 2 is a plan view of my machine.

Figure 3 is a bottom view of the same.

A represents the circular bed of the machine, on each side of which extends a bar, B, of any suitable dimensions.

Around the upper portion of the circular bed A, and resting on the bars B, is a circular disk, C, or base, the upper side of which is level, to flatten the surface of the iron to be bent.

The under side of the base C is provided with cogs, placed in circular-form, and in one of the bars B, which is hollow, is placed a shaft, D, provided with a pinion or mitre-wheel, E, that gears in said cogs.

The shaft D is, at its outer end, provided with a crank, F, to be turned by hand, and also with a wheel, G, that is to be connected, by a belt, to an engine.

By now turning the shaft D, by any means desired, it will be seen that the base C is made to revolve around its axis, the bed A.

On top of the base C, and around the upper edge of the circular bed A, is placed the dial H, around the circumference of which the iron is to be bent. This dial may be exchanged for another of larger or smaller diameter, whereby the diameter of the wagon-circle can readily be changed, and thus any desired circle be bent on the same machine.

On top of the bed A is placed a cap or plate, I, the outer edges of which lap over the inner edges of the dial H, and a screw, J, being passed through the centre into the bed A, the base C and dial H are held down.

A pin in the upper side of the base C, which enters a hole in the dial H, causes said dial to be revolved with the base, while a similar pin in the bed A, that enters a hole in the cap I, prevents the cap from revolving.

Around the screw J, above the cap I, is placed a collar or sleeve, K, having a projection on one side, in which the inner end of a tumbling-shaft, L, has its bearing, the other or outer end of said shaft having

its bearing in a stud or standard, M, near the outer edge of the base C.

On the shaft L is placed a lever, N, to hold the iron down on the base.

The other one of the bars B has a projection on its outer end, which extends beyond and above the outer edge of the base C, and through the said projection is passed a rod or bar, O, which runs above and parallel with the base C.

This rod, at its inner end, on the under side, is provided with a pin and roller, P, and can be set at any desired point in the bar B, by means of the set-screw *a*, so as to roll any desired size of circle.

Through the projecting part of the bar B above mentioned, is an upright post, R, through the upper end of which runs a rod, S, parallel with the rod or bar O, said rod S being set at any point desired, by means of the set-screw *b*.

The inner end of the rod S is provided with a head or enlargement, through which a vertical rod, *d*, passes downward, said rod being also adjustable by means of the set-screw *e*.

Through the lower end of the rod *d*, at right angles, runs another rod, *f*, which is adjusted by means of the set-screw *i*, through the lower end of the rod *d*.

On the rod *f*, on the inner side of the post *d*, revolves the split wheel *h*.

By these devices, I am enabled to set the split wheel *h* so as to roll any desired angle on the iron, and the split wheel can be adjusted to any size, by spreading the wheel in lengthening the rod *f*, on which it revolves.

The post R passes entirely through the bar B, and is held up by a spring, *g*, whereby the wheel is enabled to readily pass any clip or obstruction on the iron, and is brought down again by a treadle attached to the lower end of the post R.

Having thus fully described my invention,

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

1. The combination and arrangement of the circular bed A, bars B B, base C, dial H, cap I, and screw J, all constructed and connected as described, and for the purposes set forth.

2. The arrangement of the collar K, shaft L, standard M, and lever N, with the screw J and base C, substantially as and for the purpose set forth.

3. The arrangement of the split wheel *h*, revolving on the pin *f*, and made adjustable by means of said pin, and the posts *d* S R, and spring *g*, with the bar B, substantially in the manner and for the purpose herein described.

In testimony that I claim the foregoing as my own, I affix my signature, in presence of two witnesses.

GEO. W. HECKART.

Witnesses:

STEVEN R. MORLAIN,  
HORACE G. MORLAIN.