F. A. Morley.

Machine Gearing.

No 37,634. Patented Feb. 10, 1863.

Fig. 2.

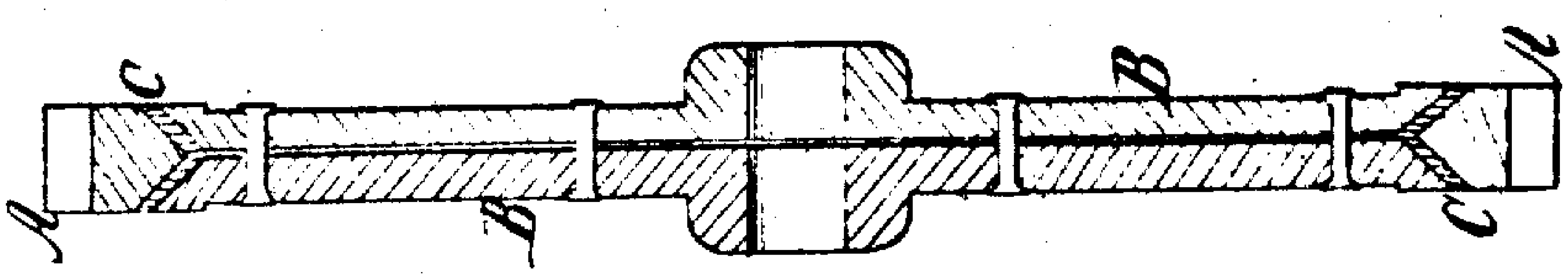
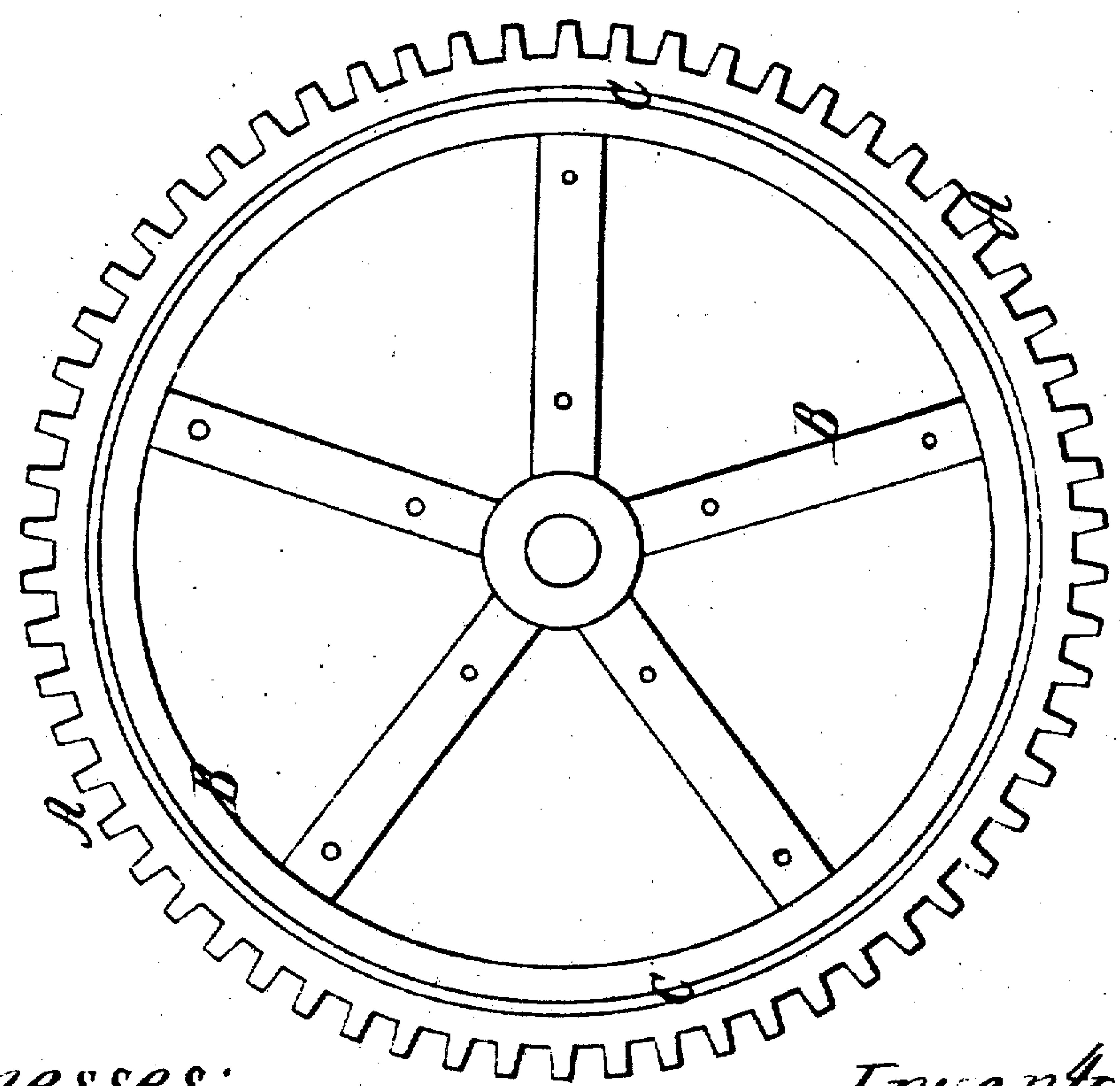


Fig. 1.



Witnesses;
S. H. Clark
E. C. Hill

Inventor;
Franklin A. Morley

UNITED STATES PATENT OFFICE.

FRANKLIN A. MORLEY, OF SODUS POINT, NEW YORK.

IMPROVEMENT IN COG-WHEELS.

Specification forming part of Letters Patent No. **37,631**, dated February 10, 1863.

To all whom it may concern:

Be it known that I, FRANKLIN A. MORLEY, of Sodus Point, in the county of Wayne and State of New York, have invented a new and Improved Noiseless Cog-Wheel; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, like letters representing like parts.

The nature of my invention consists in insulating the periphery of the cog-wheel by means of a stratum of india-rubber, or any non-conductor of sound, placed between said periphery and the central parts of the cog-wheel.

To enable others skilled in the art to make and use my invention, I will proceed to describe its operation and construction.

Figure 1 in the accompanying drawings is a perspective view, and Fig. 2 a cross-section.

A A is the periphery; C C, the india-rubber or insulating material; B B, the center of the wheel, which is formed in two parts, as shown in Fig. 2, and are bolted together, so as to grip the india-rubber between its own beveled circumference and the internal beveled face of the periphery A A.

In operation, the noise of the cogs, which would be transmitted by passing along a solid, is interrupted and absorbed by the insulator.

I claim—

The insulating of the periphery or parts containing the cogs by means of a stratum of a non-conducter of sound, placed between said periphery and the central parts of the cog-wheel, substantially in the manner and for the purpose set forth.

FRANKLIN A. MORLEY.

Witnesses:

S. H. CLARK,

H. C. HILL.