

(No Model.)

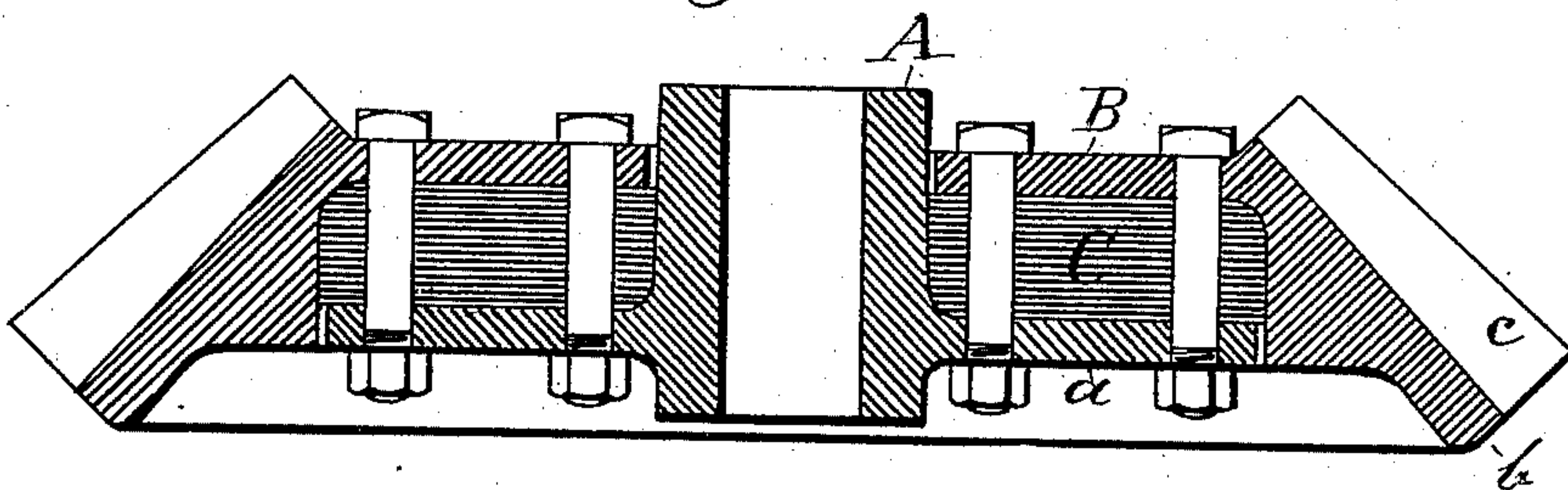
A. PLAMONDON.

GEAR WHEEL.

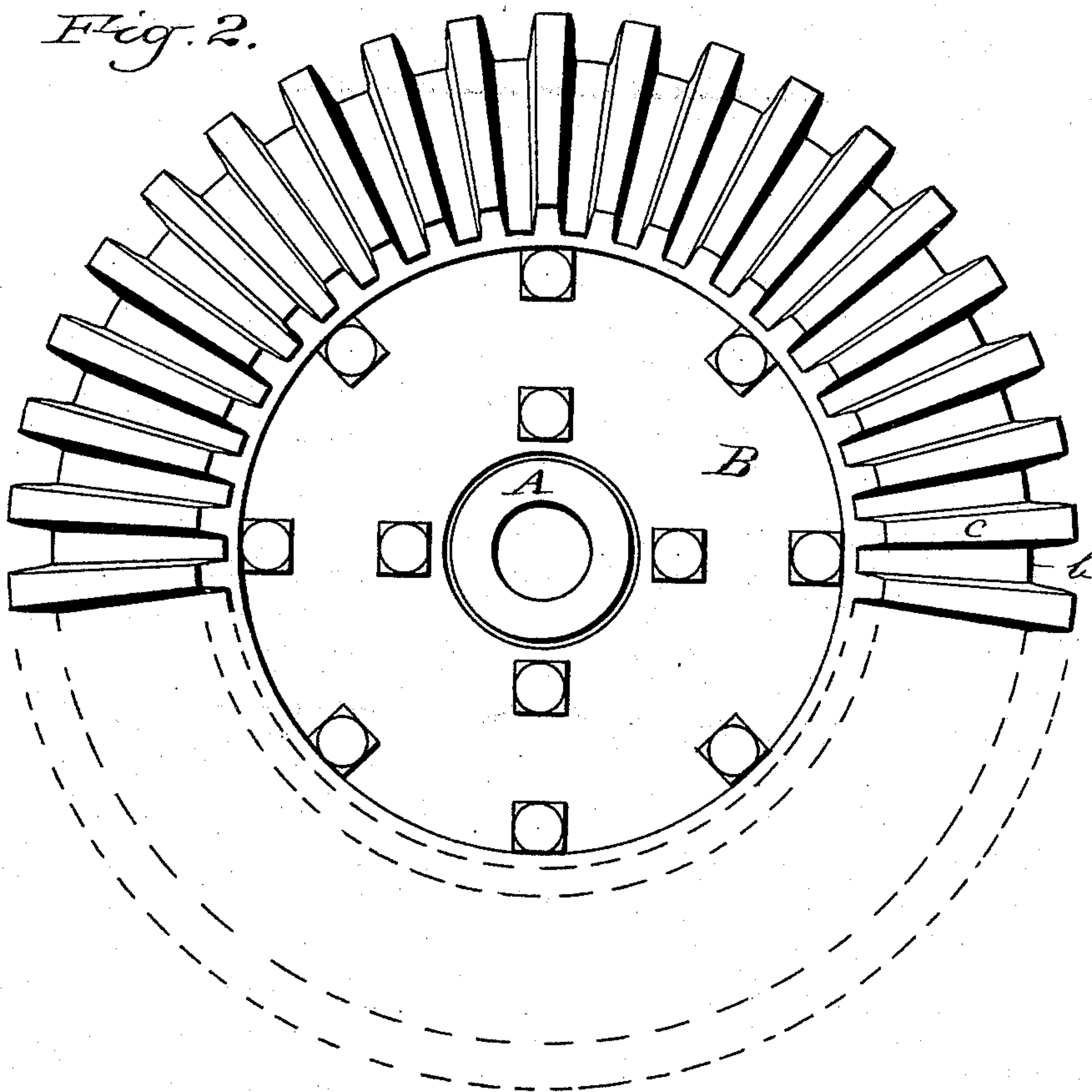
No. 314,472.

Patented Mar. 24, 1885.

*Fig. 1.*



*Fig. 2.*



WITNESSES:

*M. J. Clayton.*  
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# UNITED STATES PATENT OFFICE.

AMBROSE PLAMONDON, OF CHICAGO, ILLINOIS.

## GEAR-WHEEL.

SPECIFICATION forming part of Letters Patent No. 314,472, dated March 24, 1885.

Application filed October 12, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, AMBROSE PLAMONDON, a citizen of the United States of America, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Gear-Wheels, of which the following is a specification, reference being had therein to the accompanying drawings.

10 My invention relates to an improvement in gear-wheels. The object it has in view is to lessen the wear on such wheels; and to that end the invention consists of the novel devices and combination of devices, as will be described and claimed.

Reference will be made to the accompanying drawings, in which Figure 1 is a vertical section, and Fig. 2 a plan of the wheel constructed according to the invention.

20 Like letters refer to like parts in each view.

A represents the hub of a gear-wheel cast with a suitable flange, *a*, as shown in Fig. 1.

25 B represents a plate or disk formed on its outer edge with a downwardly-sloping flange, *b*, upon which are formed the teeth *c*. The central opening with which the plate B is provided, and through which the hub A is passed, is of such a size with respect to said hub that a small space is left between the edges thereof

and the hub, a similar space being left between 30 the inner edge of flange *b* of said plate and the outer edge of flange *a* of the hub, the parts being thus arranged to permit of a certain amount of elasticity, as will be understood.

Between the plate B and flange *a* of hub A a 35 series of layers of paper, C, are placed, said paper first being subjected to the ordinary process of preparation, and the parts are then firmly held together by bolts *d*, the paper being arranged to receive all the pressure. 40

What I claim is—

As a new article of manufacture, a gear-wheel consisting of a hub, A, formed integral with a plate or flange, *a*, and a plate, B, provided with a central opening, and upon its outer edge 45 with a toothed flange, *b*, the parts being so arranged and the central opening of plate B of such size that there will be a space left between flanges *a* *b* and between plate B and hub A, and the space between plate B and 50 flange *a* being filled with elastic material C, as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

AMBROSE PLAMONDON.

Witnesses:

M. J. CLAGETT,

LOUIS NOLTING.