

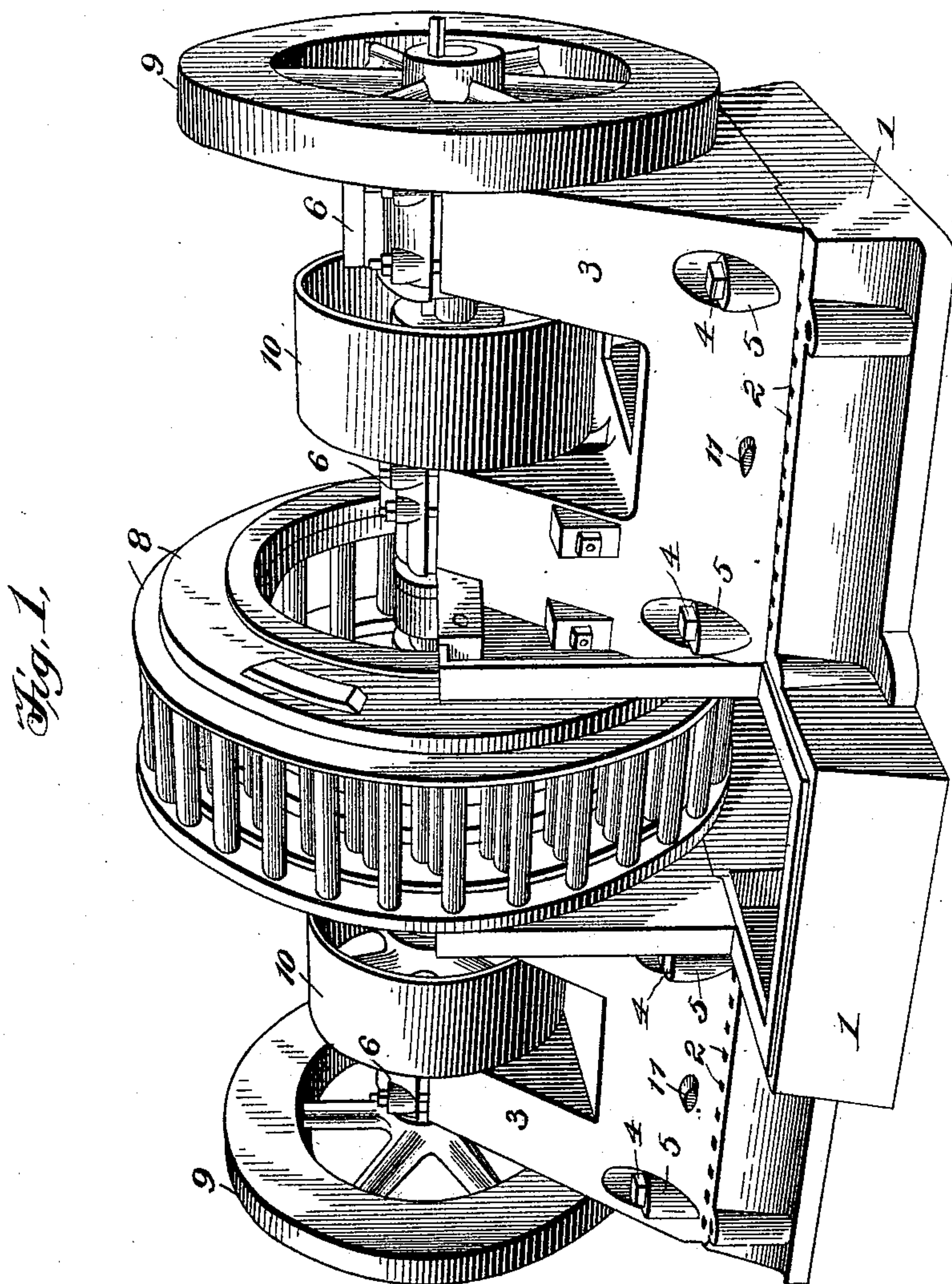
(No Model.)

2 Sheets—Sheet 1.

N. STEDMAN.
DISINTEGRATOR.

No. 518,011.

Patented Apr. 10, 1894.



Witnesses:

Henry D. Robur.
Reuben C. Smith.

Inventor:

Nathan Stedman

By *Davis & Co.*

Attys.

(No Model.)

2 Sheets—Sheet 2.

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DISINTEGRATOR.

No. 518,011.

Patented Apr. 10, 1894.

Fig. 2.

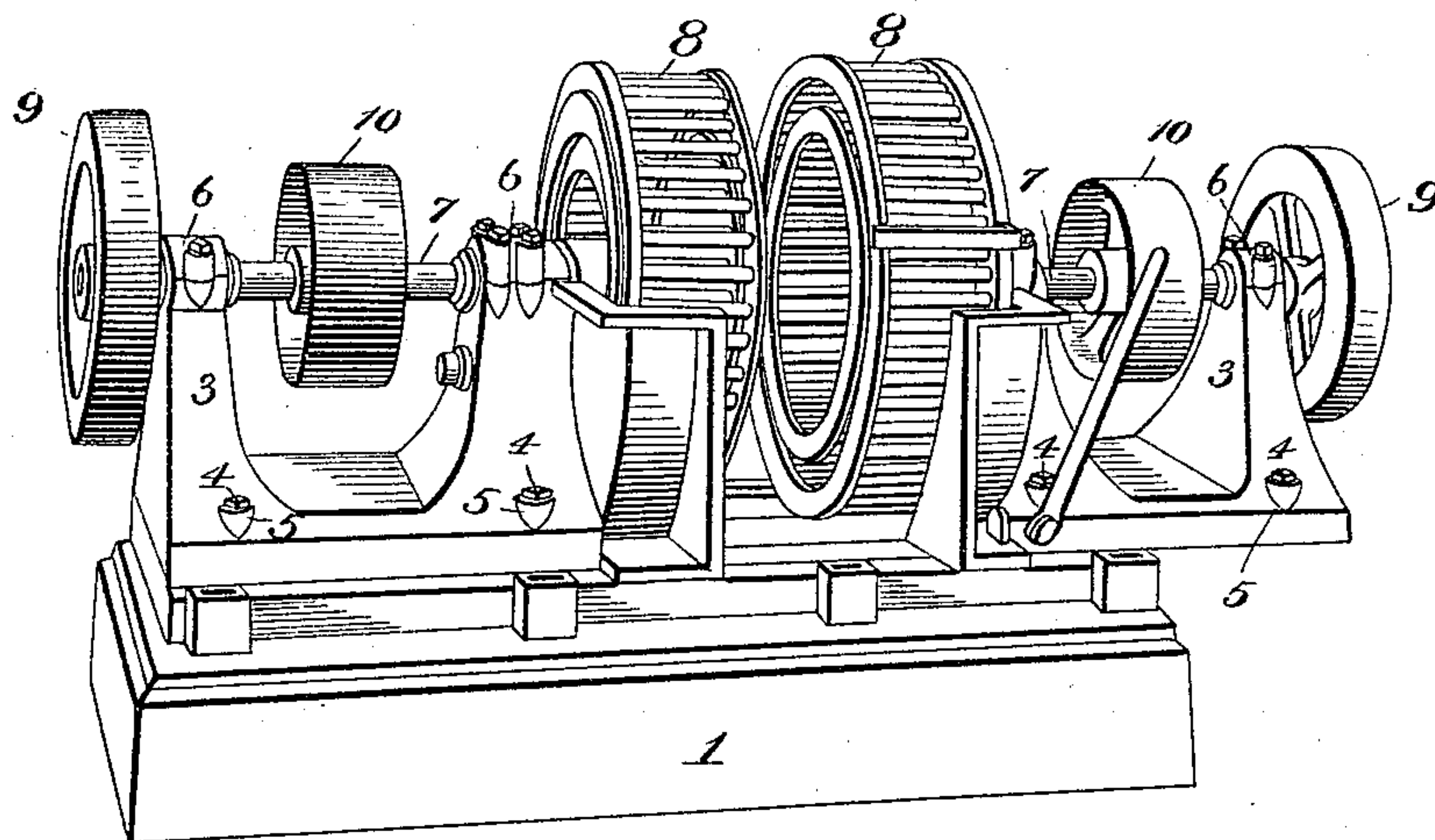
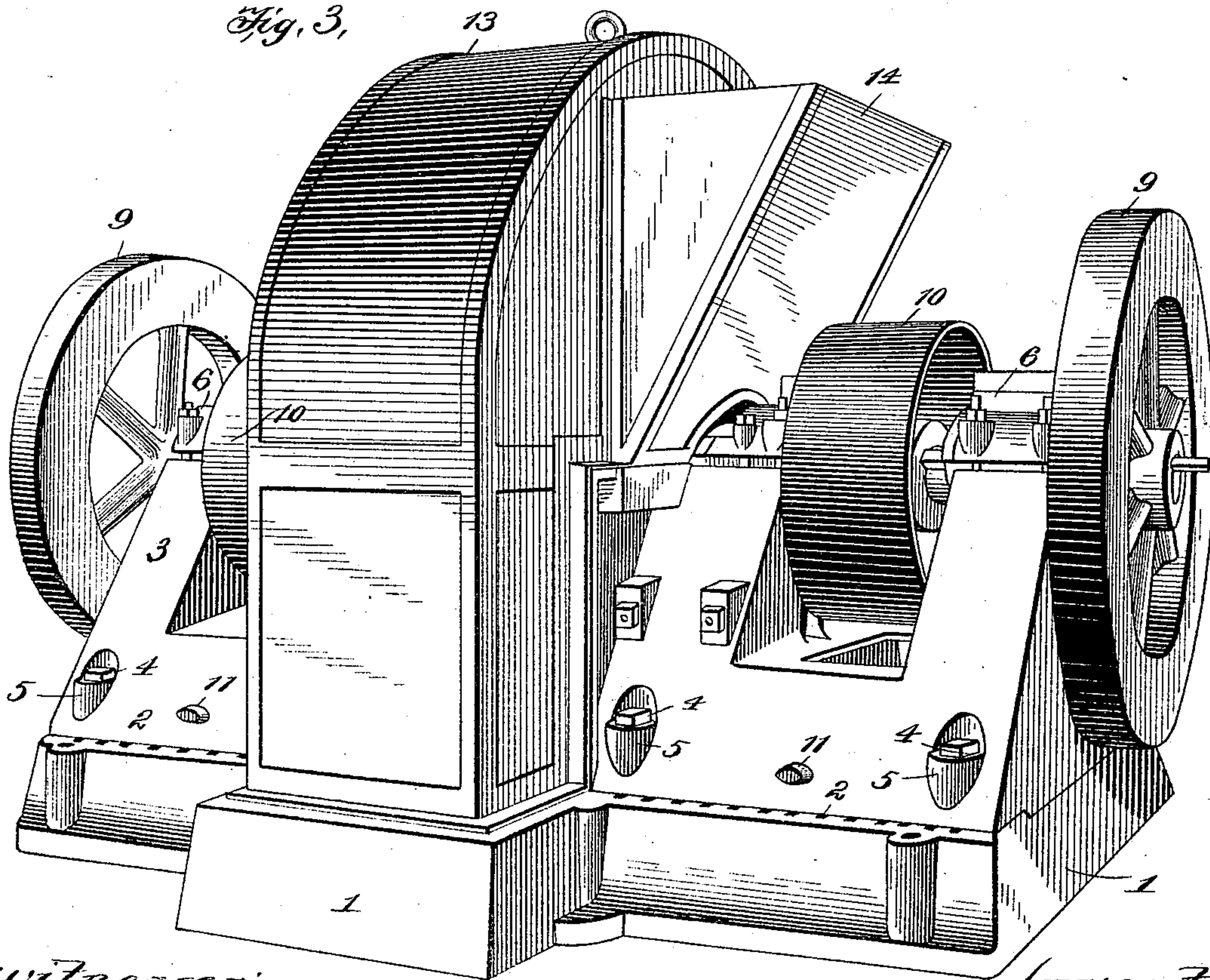


Fig. 3.



Witnesses:

Harry S. Rohrer.
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Inventor
Nathan Stedman.
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UNITED STATES PATENT OFFICE.

NATHAN STEDMAN, OF AURORA, INDIANA, ASSIGNOR TO THE STEDMAN'S
FOUNDRY AND MACHINE WORKS, OF SAME PLACE.

DISINTEGRATOR.

SPECIFICATION forming part of Letters Patent No. 518,011, dated April 10, 1894.

Application filed August 8, 1893. Serial No. 482,656. (No model.)

To all whom it may concern:

Be it known that I, NATHAN STEDMAN, a citizen of the United States, residing at Aurora, in the county of Dearborn and State of Indiana, have invented a certain new, useful, and valuable Improvement in Disintegrators, of which the following is a full, clear, and exact description.

This invention relates to an improvement in disintegrators such as are employed in disintegrating or pulverizing ores, clay, and other substances, and more particularly to that class in which a plurality of revoluble cages are employed.

The object of the invention is to provide a double cage disintegrator having its frame work so constructed as to permit of the cages being separated for the purpose of cleaning or repair, and also to provide means to counterbalance the cages so as to prevent uneven wear of the bearings.

With these objects in view the invention consists in the novel construction and combination of parts of a double cage disintegrator, as will be hereinafter fully described and claimed.

In the accompanying drawings forming a part of this specification, and in which like numerals of reference indicate corresponding parts, Figure 1, is a perspective view of the disintegrator with the casing or cover removed from the cages. Fig. 2, is a perspective view showing the cages separated. Fig. 3, is a perspective view similar to Fig. 1, showing the casing in place over the cages.

Referring to the drawings, 1 designates the base which is constructed preferably of iron and has its top portion planed perfectly smooth. Arranged parallel with one side of the casing is a series of openings 2 which is designed to be engaged by a lever for the purpose of separating the cages, as will presently appear.

Located upon the top of the base are two housings 3, which are suitably secured upon the base by means of bolts 4 which pass through lugs 5 on the housings and into the base. The upper portion of the housings are provided each with two journal bearings 6 in which work the shafts 7 carrying at one end the cages 8 and at the opposite end a fly wheel 9. The weight of the fly wheel is the same as that of the cage, so that the journals are

prevented from wearing unevenly which would inevitably follow if the cages were not counterbalanced. Each shaft carries a pulley 10 around which passes a belt (not shown) to a suitable source of power. The cages are constructed in the usual manner, and therefore need no detailed description. Located near the bottom of each of the housings and on one side thereof is a projection or fulcrum 11 against which the lever bears when the cages are being separated. In order to accomplish this result the bolts 4 are removed, and the end of a lever (not shown) is inserted in one of the series of openings 2 and by forcing the lever against the fulcrum 11 the housing is moved outward in an obvious manner, a reverse movement of the lever causing the housings to approach each other. The disintegrators are covered by a casing 13 provided with a hopper 14 in which the subject to be disintegrated passes, and as the case is of the ordinary form, and performs the usual function common to this class of machines a further description is not given.

The specific construction of the base, the housings, the cages and the cage supporting and operating mechanism is substantially the same as the corresponding parts set forth in an application for Letters Patent of the United States filed by me of an even date herewith, Serial No. 482,655.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In a disintegrator, the combination with a base having a series of openings along one edge two housings mounted on the base and adapted to be moved thereon, each provided with a lateral projection to extend over the said series of openings and form a fulcrum for a lever which is adapted to obtain a purchase in one of the said series of openings by means of which the said housings are moved, the latter carrying the cages, and means for securing the said housings to the base in the required position, substantially as described.

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

NATHAN STEDMAN.

Witnesses:

G. M. STEDMAN,
W. R. STEDMAN.