N. JOHNSON.

Harvester Droppers.

No. 139,395. Patented May 27, 1873.

Fig. 1.

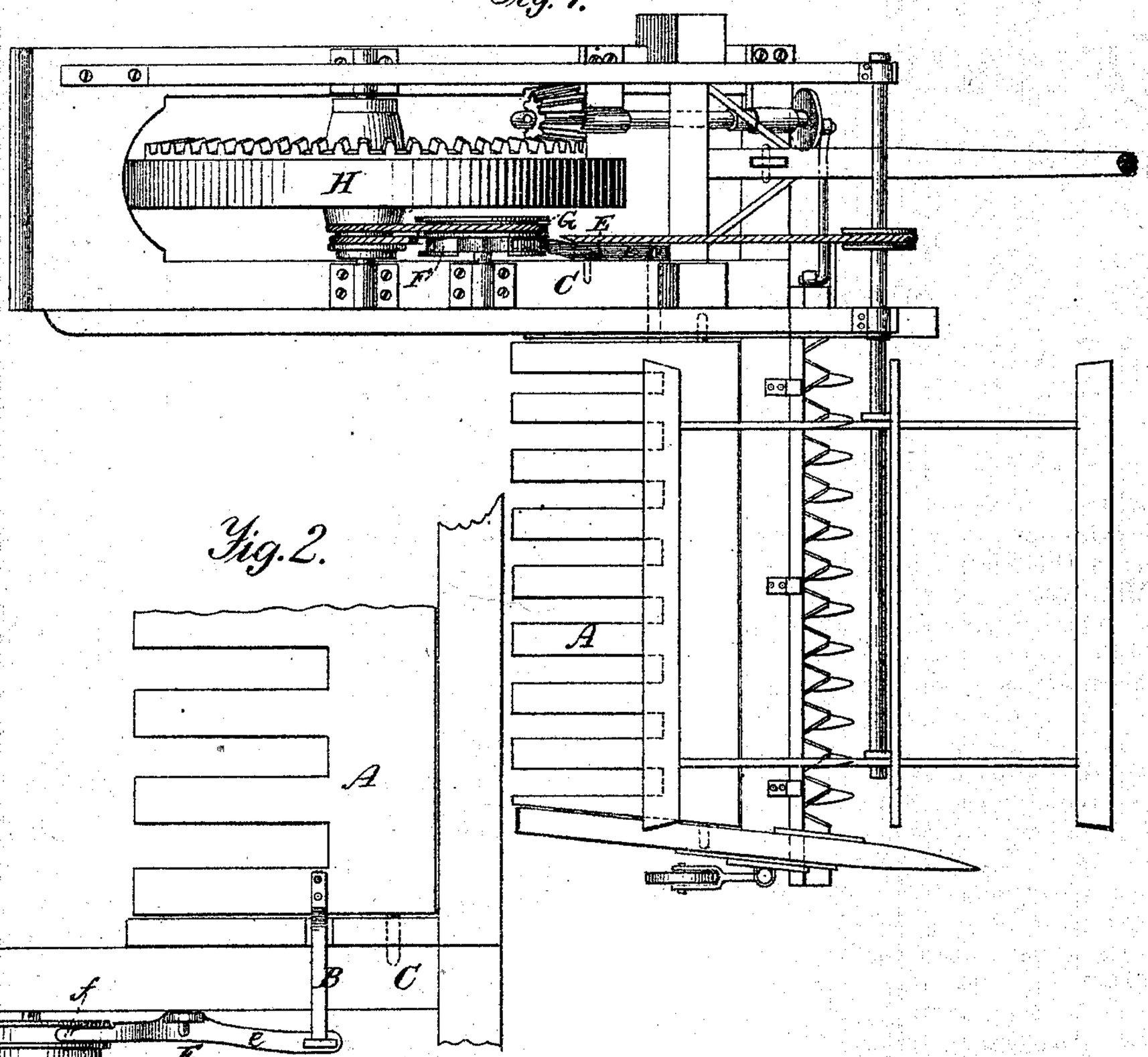
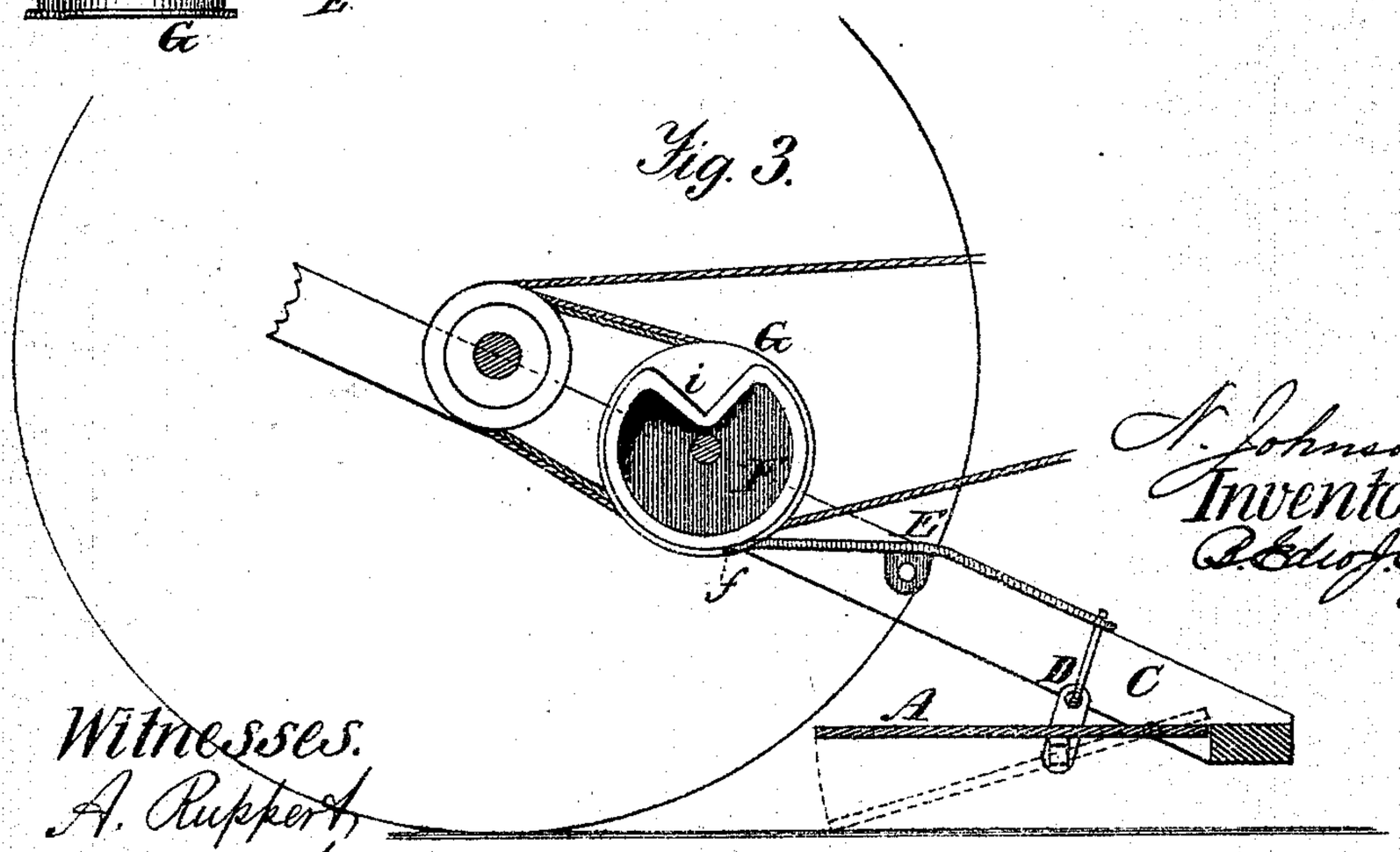


Fig. 2.

Fig. 3.



Witnesses.
A. Ruppert,
W. Bradford

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By Edw. J. Gils
Atty.

UNITED STATES PATENT OFFICE

NILS JOHNSON, OF NEWBURG, MINNESOTA.

IMPROVEMENT IN HARVESTER-DROPPERS.

Specification forming part of Letters Patent No. **139,395**, dated May 27, 1873; application filed April 11, 1873.

To all whom it may concern:

Be it known that I, NILS JOHNSON, of Newburg, in the county of Fillmore, in the State of Minnesota, have invented a certain Improvement in Harvester-Droppers, of which the following is a specification:

This invention relates to that class of harvester-droppers which, consisting of a platform hinged in rear of the cutter-bar, are supported in a horizontal position while gathering a gavel of grain, and periodically dropped at the rear end to discharge such gavels, by means of a lever which is connected to the platform and bears against the periphery of a revolving sectoral disk, which permits an intermittent oscillation of the lever to operate the platform as stated. My improvement consists in a novel arrangement of the parts hereinafter more fully explained.

Figure 1 is a plan view of a harvester embodying my improvement. Figs. 2 and 3, which are drawn on a larger scale, illustrate my improved mechanism for operating the dropper.

The same letters of reference are used in all the figures in the designation of identical parts.

The dropper-platform A, which may be constructed in any approved manner, is provided at each end, near its forward edge, with fixed journals, by means of which it is pivoted respectively to the main frame and the divider, directly in rear of the cutter-bar. An arm, B, fixed to the dropper at its inner side, projects underneath the side-beam C, and is connected by a link, D, to the arm *e* of a lever, E, fulcrumed on the beam C. The other arm, *f*, of the lever projects under and bears against the surface of the sectoral disk F. This disk has a sheave, G, fastened to it, and turns on an axis, *g*, carried on the main frame. Rotary motion is imparted to this disk from a pulley on the axle of the driving-wheel H by means of a belt, as shown. Cones of pulleys may be used for the purpose of regulating the speed of the scctoral disk in accordance with the thickness of the grain the machine is operated in. The arm *f* of the lever E entering once during every revolution of the sectoral disk, the gap *i* therein permits the other arm, *e*, of the lever to descend and drop the rear end of the dropper.

I do not propose to claim broadly operating a dropper by means of a revolving cam or equivalent device, turning on an axis independent of the reel, but confine myself to the special features and arrangement of parts hereinbefore described.

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

The relative arrangement of the dropper A, link D, lever E, and revolving sectoral disk F, turning on an independent axis, all the parts being combined and operating substantially as and for the purpose specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

NILS JOHNSON.

Witnesses:

G. GABRIELSON,

J. M. GABRIELSON.