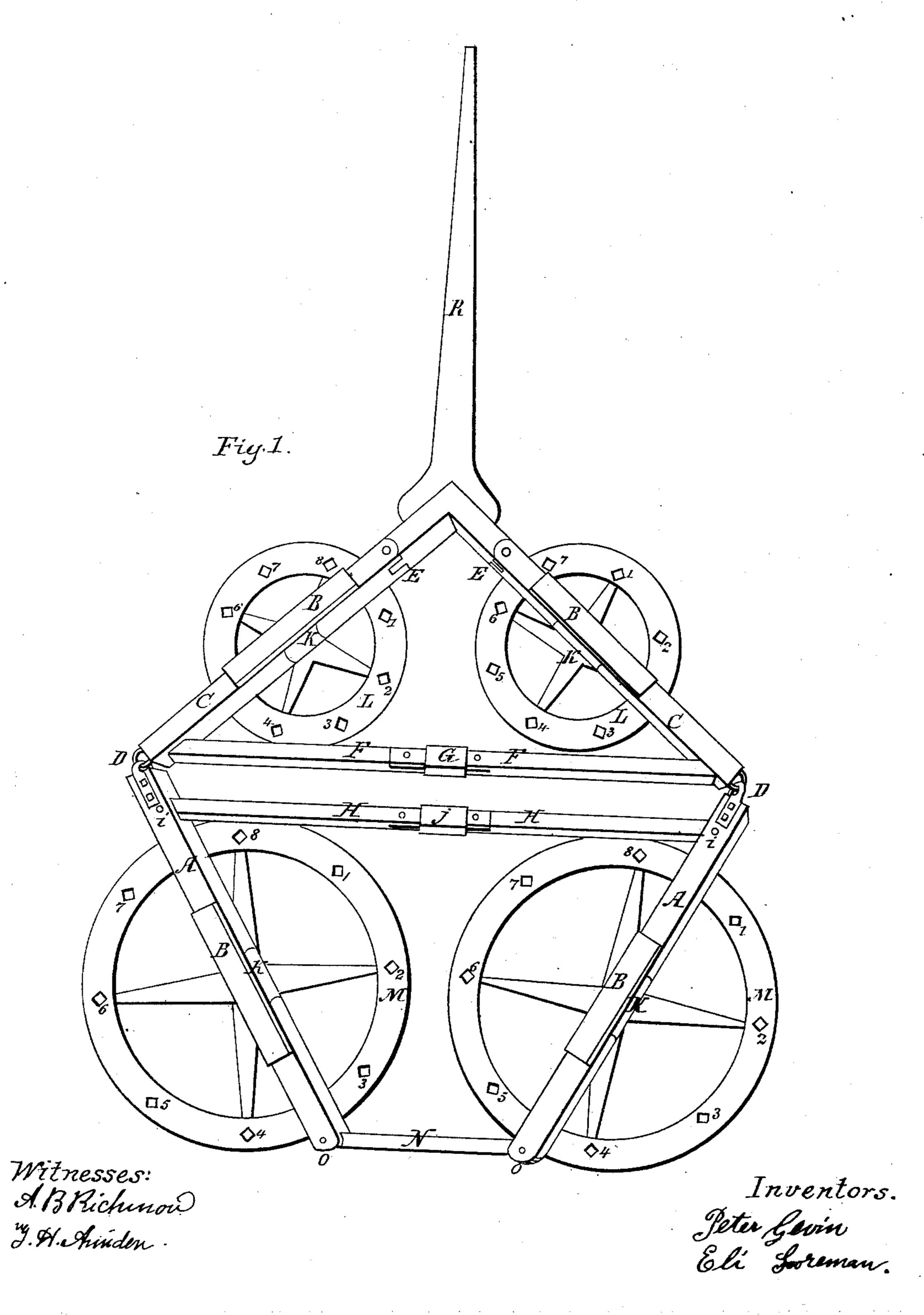
GEVIN & FOREMAN.

Rotary-Harrow.

No. 30,728.

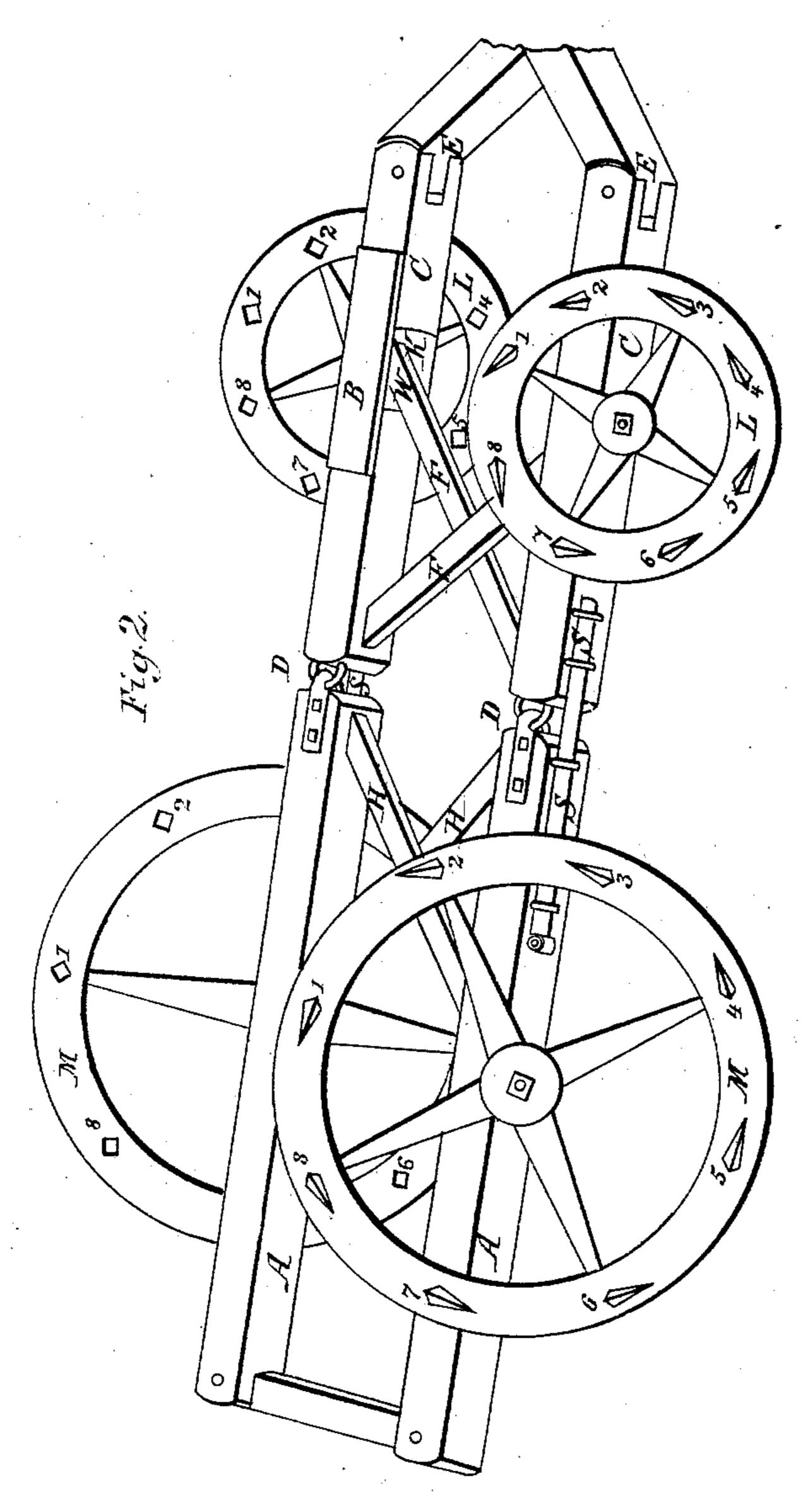
Patented Nov. 27, 1860.

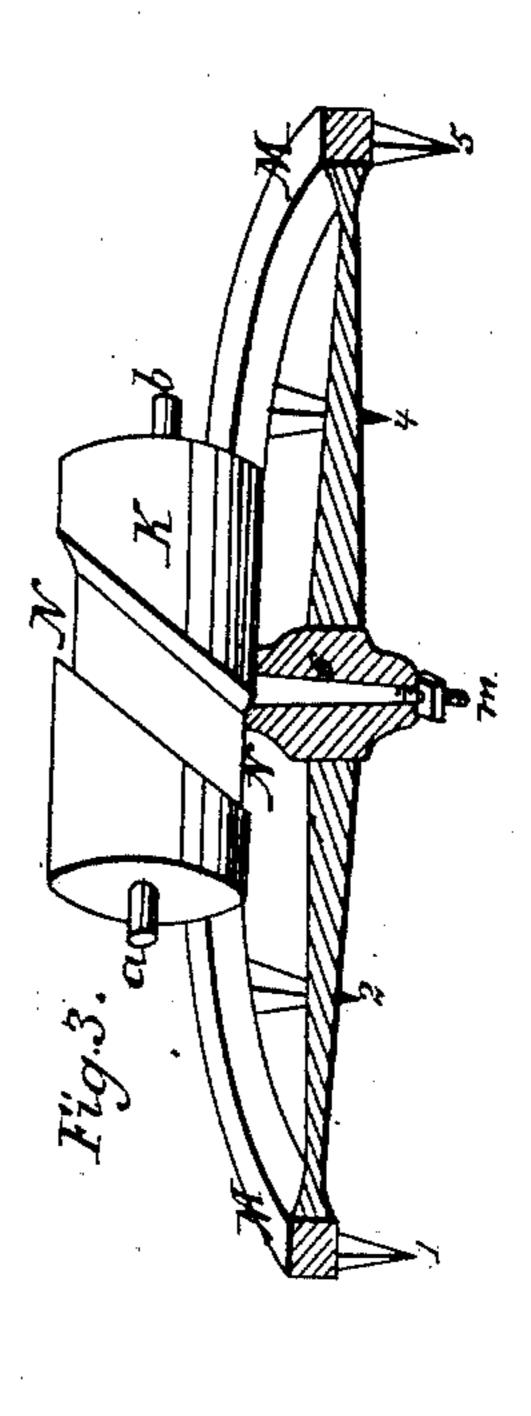


GEVIN & FOREMAN Rotary-Harrow.

No. 30,728.

Patented Nov. 27, 1860





Witnesses. A. B. Richmon M.H. Amison. Peter Germ. Eli Foreman.

United States Patent Office.

P. GEVIN AND ELI FOREMAN, OF SUMMERHILL, PENNSYLVANIA.

IMPROVEMENT IN ROTARY HARROWS.

Specification forming part of Letters Patent No. 30,728, dated November 27, 1860.

To all whom it may concern:

Be it known that we, Peter Gevin and Eli Foreman, of Summerhill, in the county of Crawford, State of Pennsylvania, have invented a new and Improved Harrow; and we do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings and the letters of reference marked thereon.

Figure 1 represents and is a top view of my harrow with all its parts adjusted in working order.

A A and C C are the frame, attached together by a hook and staple at D D. C C are also jointed at E E.

L L are two revolving harrow-wheels, with teeth 12345678. These wheels are hung on an axle, m, Fig. 3, which is placed in a roller, K. K. This roller is better shown at Fig. 3. a b are the "gudgeons" on which it is hung in the frame C C. By this arrangement the wheels will turn at any angle to suit the inequalities of the ground. The frame A A C C is kept spread in the form shown in the drawings by means of the cross-pieces F F H H, Fig. 1. H H are attached to A A by joints and pins ii. F F, however, are simply tenoned into C C. Both F F and H H overlap each other at G J, and are kept together by the sliding bands G J.

M M are two harrow-wheels, constructed exactly like L L, only larger, and are both hung on the rollers K K, (like L L,) and have also teeth 12345678. These teeth are not set straight, but at an angle, as shown at 12345678, Fig. 2. A A are also connected together by the cross-piece N by joint and pin o o.

BBB are caps on AACC over the rollers KKKK.

R is a tongue by which it is drawn.

Now, when it is desired to take the harrow for some distance along a road or through fields, with several bags of grain for sowing, we convert our harrow into a wagon as follows, to wit: The sliding bands G J are slid to the right or left and the joints D D brought together, the pieces F F and H H crossing each other, as shown in Fig. 2. Now, in the rollers K K K is a groove, as shown at N.N., Fig. 3, and when the wheels are turned in a perpendicular position, as shown at Fig. 2, these grooves N N are in such a position that the cross-pieces F F H H will enter them, as shown at w k, Fig. 2. These cross-pieces then act as braces and also form a bottom of the wagon, on which sacks of grain may be laid. On the frame-pieces A A is a bolt with staples, as shown at S S, Fig. 2, which is slid from A A to C C, as shown, Fig. 2, thus rendering the joints D D immovable.

Fig. 3 represents a section of the harrow-wheels with the roller, and showing how the wheels are attached to the rollers. M is the rim of the wheel; C, the hub; m, the axle; 1 2 3 4 5, the teeth.

What we claim as our invention, and desire to secure by Letters Patent of the United States, is as follows, to wit:

The construction of the frame with the crosspicces H H F F, in combination with the sliding bands G J and the grooved rollers K K K, constructed as described.

PETER GEVIN. ELI FOREMAN.

Witnesses:

A. B. RICHMOND, W. H. AMIDON.