A. HUMBERGER.

Corn Harvester.

No. 20,067. Patented April 27, 1858.

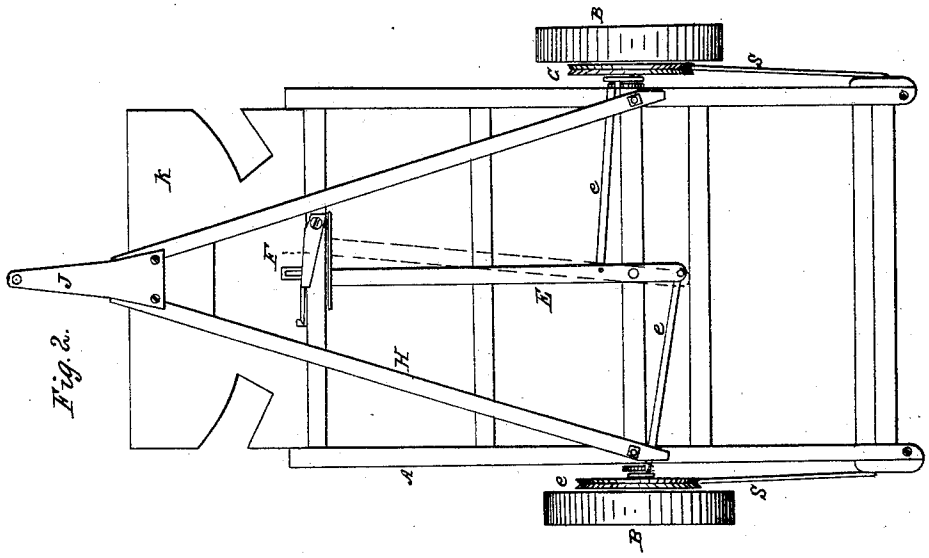

Fig. 2.

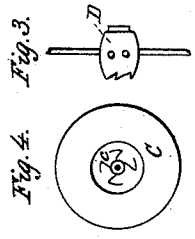

Fig. 3.

Fig. 4.

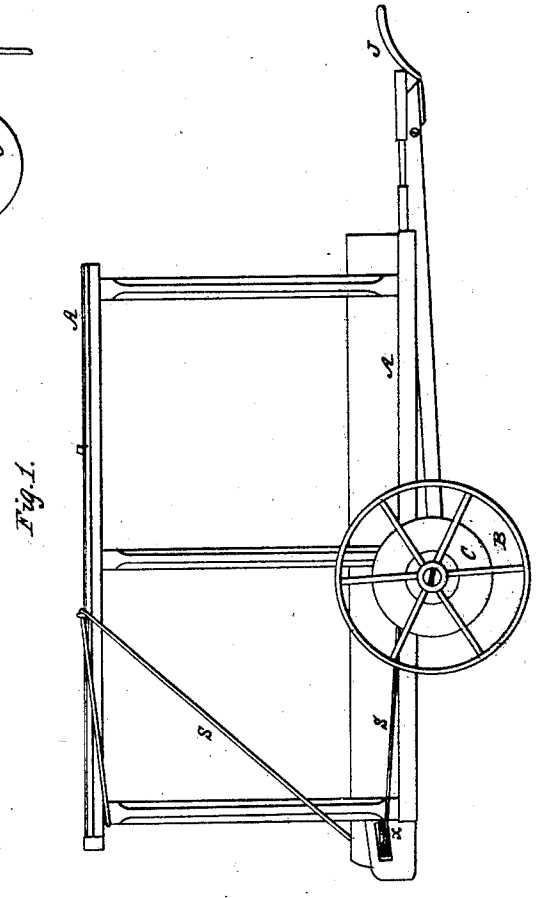

Fig. 1.

UNITED STATES PATENT OFFICE.

A. HUMBERGER, OF SOMERSET, OHIO.

IMPROVEMENT IN CORN-HARVESTERS.

Specification forming part of Letters Patent No. **20,067**, dated April 27, 1858.

To all whom it may concern:

Be it known that I, ADAM HUMBERGER, of Somerset, in the county of Terry and State of Ohio, have invented a new and Improved Indian-Corn Harvester; 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.

In the accompanying drawings, Figure 1 is a side elevation of my machine. Fig. 2 is a bottom view of the same. Figs. 3 and 4 are detached parts of my machine.

My invention consists of a corn-carrier provided with pulleys and friction-rollers for tightening a rope in binding the corn, and having an arrangement for interlocking the pulleys with the traveling wheels at pleasure.

In Fig. 1, A is the frame of the corn-carrier, which is so constructed as to tilt upon the axle. B, Figs. 1 and 2, shows the traveling wheels, which should have a broad tread. This carrier is intended to follow a corn-cutter, to which it is attached by means of the link I. The bed of the carrier extends forward of the frame A, as shown at K, Fig. 2. The pulleys C, Fig. 2, not only revolve on the axle, but they are capable of being moved toward and from the wheels B. Usually the wheels B revolve independently of the pulleys C; but when these pulleys are pressed toward the wheels they interlock with the latter, so that both wheels and pulleys must rotate or rest together. This interlocking is produced by means of notches *d*, Fig. 3, upon the end of the hub D of the wheels B, and corresponding notches, *c*, Fig. 4, in the pulleys C. In the bottom view, Fig. 2, the pulleys are shown free from the wheels.

The lever E turns on a pin or fulcrum in the axle L. The rods *e* connect the lever E to small plates of iron *i*, which lock into grooves in the pulleys C. These plates have semicircular bearings, so as to allow the pulley to revolve freely. The forward end of the lever E is held in place by a catch, F. Now, by liberating this end of the lever from the catch F, and swinging the lever round, as shown in red lines, Fig. 2, the rods *e* are made to thrust the pulleys C outward so as to interlock the wheels and pulleys.

The rope *s* is attached to the pulleys C, and may be wound up or unwound by turning the pulleys. This rope passes over friction-rollers *x* at the rear of the carrier-frame, and is seen in Fig. 1 thrown over the top of the frame A. When a bundle or shock of corn upon the carrier is to be bound the stalks are compressed by this rope *s*, which is wound up by the pulleys C. Then the band is secured around the bundle. The corn is unloaded by tilting the carrier.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

The above-described corn carrier and shocker, provided with pulleys C, interlocking at pleasure with wheels B, in connection with the rope *s*, said pulleys being operated by lever E and rods *e* for binding and shocking corn, the whole being constructed, arranged, and operated substantially as set forth.

ADAM HUMBERGER.

In presence of—
J. W. SHIRLEY,
B. S. SHIRLEY.