

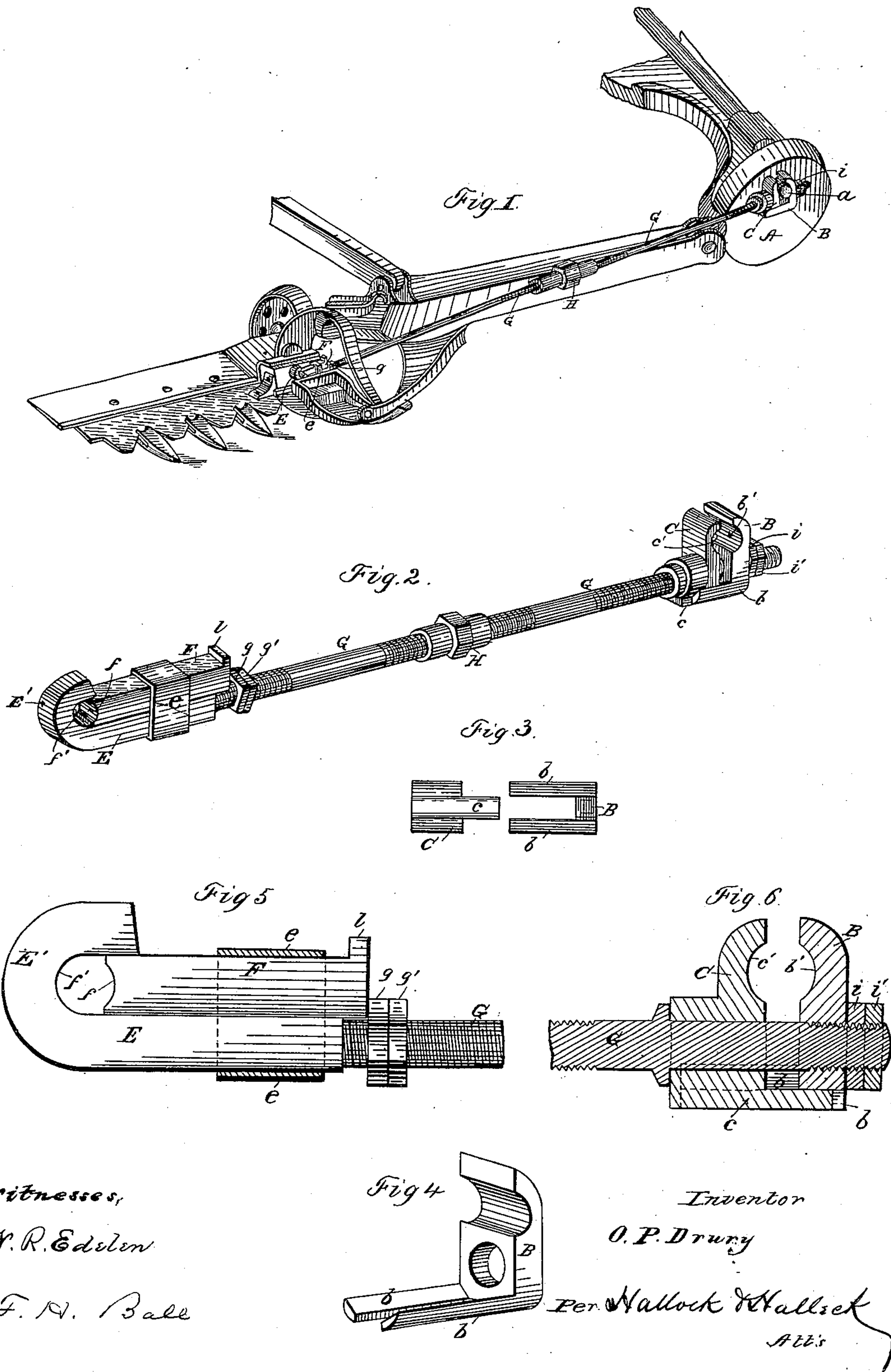
(No Model.)

O. P. DRURY.

CONNECTING ROD FOR MOWERS OR REAPERS.

No. 265,309.

Patented Oct. 3, 1882.



UNITED STATES PATENT OFFICE.

OLIVER P. DRURY, OF GIRARD, PENNSYLVANIA.

CONNECTING-ROD FOR MOWERS OR REAPERS.

SPECIFICATION forming part of Letters Patent No. 265,309, dated October 3, 1882.

Application filed July 26, 1882. (No model.)

To all whom it may concern:

Be it known that I, OLIVER P. DRURY, a citizen of the United States, residing at Girard, in the county of Erie and State of Pennsylvania, have invented certain new and useful Improvements in Connecting-Rods for Mower or Reaper Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to the construction of connecting-rods for connecting the sickle-bar of a reaper or mower machine with the crank.

The improvements in construction of the said rod which constitute my invention relate to the attachments for connecting with the crank-pin, and also the attachments at the opposite end for connecting with the sickle-bar. The first of these attachments is a swiveled journal-box, which is made so as to be adjusted to take up wear, and the second is an adjustable journal-box of peculiar construction.

My device is illustrated in the accompanying drawings as follows:

Figure 1 shows the connecting-rod in position on a machine. Fig. 2 is a perspective view of the rod detached from the machine. Fig. 3 is a back view of the swiveled box C B. Fig. 4 is a perspective view of the part B of the swiveled box. Fig. 5 is a side view of the box which connects with the sickle-bar. Fig. 6 is a vertical longitudinal section of the swiveled box and the rod.

The parts of the machine shown in Fig. 1 need not be described, as they are common, and form no part of this invention.

The upper end of the rod G is formed with a spindle, on which is swiveled the two parts of the box which journals the crank-pin. The two parts of this box C and B are adjusted from and toward each other, so as to properly embrace the crank-pin, by means of the nuts *i* *i'*. As these parts B and C are swiveled, I provide the following means for preventing them from gripping the crank-pin by turning unevenly on the swivel-spindle: The part B is provided with fingers *b b*, and the part C with a finger, *c*, all of which are so formed as to slide past each other and interlock. This entirely prevents the parts C and B turning independently upon the swivel and thus gripping the crank-pin.

The box for embracing the wrist-pin on the sickle-bar is constructed as follows: The con-

necting-rod G is at that end squared up, as at E, and is bent into a hook, as at E'. This hook forms a half-box, having a journal-face, *f'*, on its inside. A clip, *e*, is formed on the shank E some distance back from the hook, and this clip forms a guide for a sliding bar, F, which is provided with a journal-face, *f*, and slides into the jaw of the hook E', and there acts as a half-box. This bar F can slide back far enough to allow the wrist-pin on the sickle-bar to slip into the hook, and it is then pushed up so as to retain the pin in the hook, and is adjusted so as to properly box the pin by jam-nuts *g g'*. Any wear at this point can be taken up by these nuts *g g'*, and all play and consequent noise can be prevented.

It is of great importance that there be no play or lost motion in the boxes of the connecting-rod of a mower or reaper, for any such play or loss of motion causes a stop in the movement of the sickle-bar twice during each revolution of the crank, and during such stop the grass or straw accumulates and causes extra work after each stop, giving an uneven and jerky action, which is very wearing on the machine and very annoying to the operator. Besides this, such play causes a great rattle and noise, which are also disagreeable. With my connecting-rod both boxes can be kept perfectly tight and all wear compensated, and the evils above referred to entirely prevented.

What I claim as new is—

1. In the connecting-rod of a mower or reaper machine, a swiveled journal-box composed of the parts C and B, having interlocking fingers *b b* and *c*, substantially as and for the purposes mentioned.

2. In the connecting-rod of a mower or reaper machine, the combination, substantially as shown, of the following elements: a journal-box for connecting with the pin on the sickle-bar, consisting of a hook, E', formed on the end of said rod, and a following-bar, F, entering the jaw of said hook and made adjustable by an adjusting-screw, a journal-box for connecting with the wrist-pin on the crank, consisting of two swiveled half-boxes, C and B, having interlocking fingers *b b* and *c*, and made adjustable by an adjusting-screw.

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

OLIVER P. DRURY.

Witnesses:

JNO. K. HALLOCK,
W. S. BROWN.