(No Model.)

M. KIMBERLIN.

HARVESTER.

No. 482,924. Patented Sept. 20, 1892.

Fig. 1.

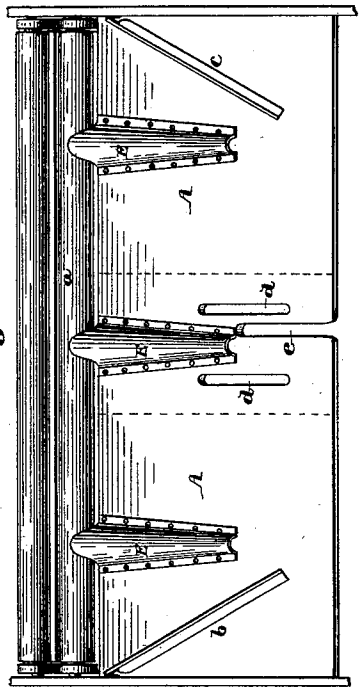

Fig. 3.

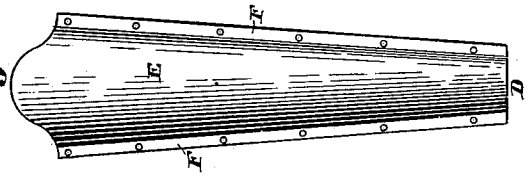

Fig. 2.

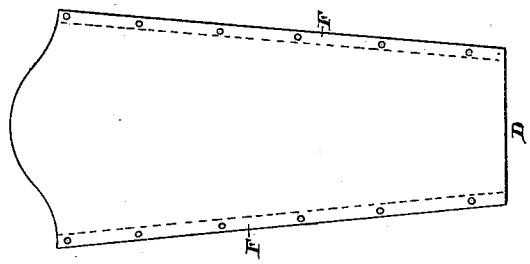

Fig. 4.

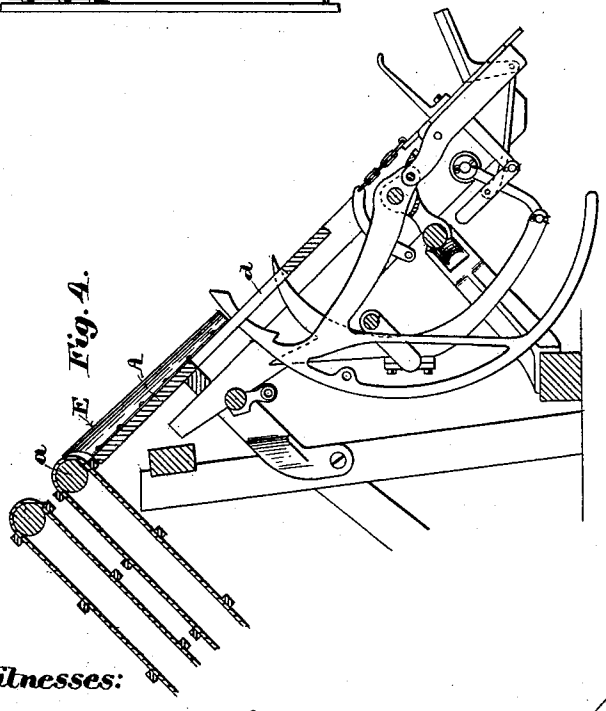

Fig. 5.

Witnesses:

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UNITED STATES PATENT OFFICE.

MILTON KIMBERLIN, OF NABB, INDIANA.

HARVESTER.

SPECIFICATION forming part of Letters Patent No. 482,924, dated September 20, 1892.

Application filed September 29, 1890. Serial No. 366,609. (No model.)

To all whom it may concern:

Be it known that I, MILTON KIMBERLIN, a citizen of the United States, residing at Nabb, in Scott county, Indiana, have invented a new and useful Improvement in Grain-Harvester Attachments, of which the following is a specification.

My device is intended to present the cut grain and straw to the packer and binding devices in the best form and arrangement for accurate and certain binding. I attain this object by the device illustrated in the accompanying drawings, in which—

Figure 1 is a top view of a binder-table of ordinary construction upon which is situated my device, as represented by letter E. Fig. 2 is a top view of a sheet of suitable material, cut to such a shape that it can be pressed into a form illustrated in Fig. 3. Fig. 3 is a view from beneath of my device as ready for attachment to the table. Fig. 4 is a side view of a binder, partly in section and partly plain, but with my device properly shaded. Fig. 5 is a cross-section of my device.

Similar letters refer to similar parts throughout the several views.

Upon the upper surface of the binder-table of usual form I place three of my devices, one near the butter-board, one near the header-board, and one midway. All have their larger ends cupped out, so as to project over and conform to the curved surface of the elevator-roll *a*. This conformity is preserved over at least a quadrant of the curved surface of the roller, and the space between the roller and the device is reduced as much as is consistent with safety. The curved surface of the device is about on a level with the elevator-roller, but, owing to its flexible character, by flaring or compressing it may be made higher or lower than the roller.

My devices are from ten to twelve inches in length, these lengths being dependent on the size of the table. The device, which is in the middle of the table, however, is expected to extend down between the packer-slots *d d* and close up to the needle-slot *e*.

My devices may be attached to the table by bolts, nails, or screws, and are to be made of some suitable flexible material which offers little resistance in the way of friction to the passage of such materials as straw and grain.

It will be observed that my devices support the cut grain and straw above the table-surface. Thus supported the straw moves down toward the packers smoothly and uniformly. The straw is also kept entirely between the header-board *b* and the butter-board *c*. If the straw were not so supported, some of the straws might get under the header and butter boards and choke the machine. This might occur the more readily as these boards are attached at but one end, so as to accommodate the passage of straws of varying length. This necessitates a hinge attachment, and the free ends of the boards are not so rigidly attached but that a vertical movement sufficient for the passage of one or more straws might at any moment occur.

I find both in theory and practice that by the intervention of my device I can deliver straw to the packers more smoothly, uniformly, and accurately, and, also, by the elevated position in which it is supported, reduce chokage and obstruction to a minimum.

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

1. An improved attachment to the table of a grain-harvesting machine, which consists of supports for the straw as it is conveyed to the packers, consisting of curved sheets of suitable material, flanged to permit of their attachment to a wooden table, and cupped so as to project partially over the rollers of said table, all substantially as described.

2. An improved attachment for grain-harvesters, consisting of the supports E, attachable by screws, bolts, or nails to the table of the harvester and constructed of material which is flexible and affords little friction, all as described.

MILTON KIMBERLIN.

Witnesses:
NOBLE J. HAYES,
J. C. BENKERT.