(No Model.)

H. N. KENNEDY.

GRAIN HARVESTER.

No. 346,552. Patented Aug. 3, 1886.

Fig. 1.

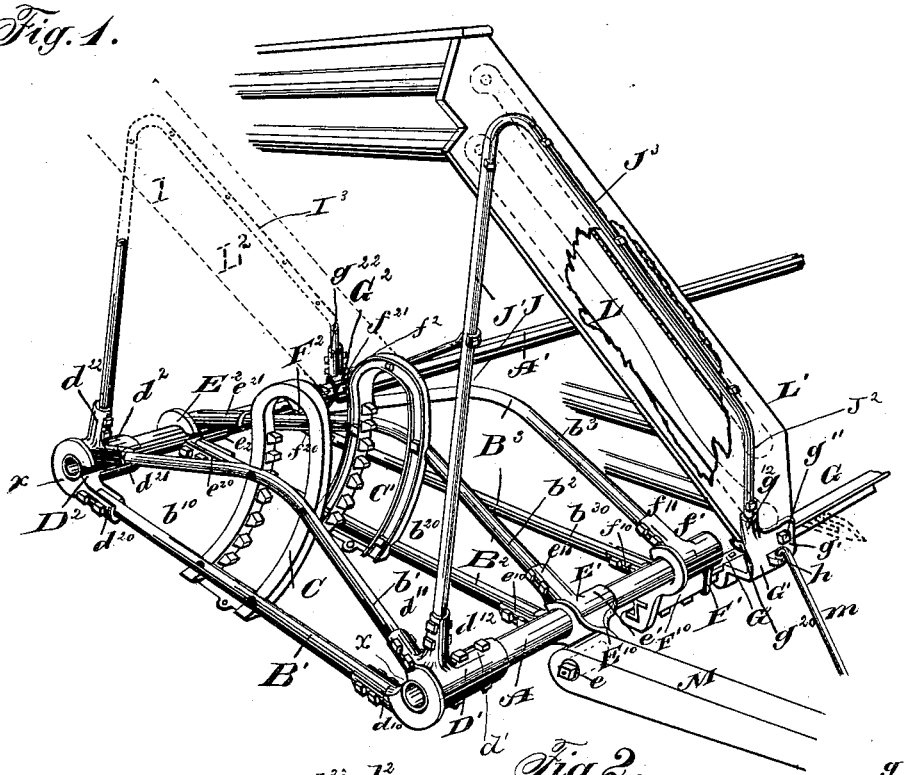

Fig. 2.

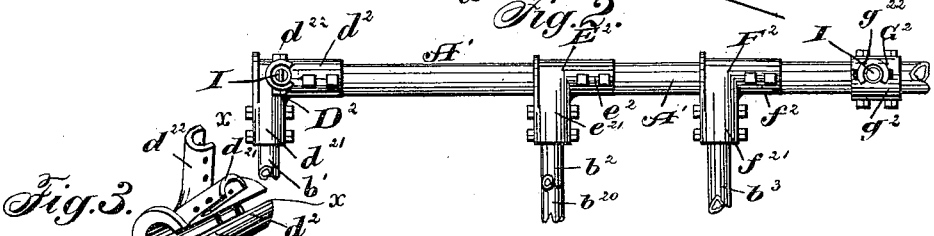

Fig. 3.

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GRAIN-HARVESTER.

SPECIFICATION forming part of Letters Patent No. 346,552, dated August 3, 1886.

Application filed October 19, 1885. Serial No. 180,258. (No model.)

To all whom it may concern:

Be it known that I, HERMAN N. KENNEDY, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Grain-Harvesters, which are fully set forth in the following specification.

This invention pertains to the structure of the frame-work of a harvesting-machine, and has for its purpose to secure increased strength and rigidity and diminished weight.

In the drawings, Figure 1 is a perspective of a portion of a harvester-frame containing my invention. Fig. 2 is a plan of the rear sill and the clips thereon, whereby the remainder of the frame is secured thereto. Fig. 3 is a detail perspective of one of the corner clips of the frame.

A is the front sill, of tubular metal. A′ is the rear sill, of tubular metal.

B′, B², and B³ are trusses connecting the sills and composed of their arches b', b^2, and b^3, and their chords b^{10}, b^{20}, and b^{30}, all formed of tubular metal.

C C′ are the outer and inner segments, which are bolted to and form struts for the trusses B′ and B², respectively.

D′ and D², E′ and E², F′ and F² are junction-clips of cast metal, by means of which the arcs and chords of the trusses are secured to the sills A and A′. Said junction-clips are provided, respectively, with the sockets d' and d^2, e' and e^2, f' and f^2, into which the tubular sills are received and bolted. Said clips have also the sockets d^{10} d^{20} e^{10} e^{20} f^{10} f^{20}, to receive the chords b^{10} b^{20} b^{30}, respectively, of the trusses B′, B², and B³, and the sockets d^{11} d^{21} e^{11} e^{21} f^{11} f^{21}, to receive the ends of the arches b', b^2, and b^3 of said trusses. The clips D′ D² E′ E² F′ F² are preferably formed with the rifts X, through the shell or wall of their tubular sockets, since when thus constructed they can be clamped onto the tubular bars by the securing-bolts more firmly than if not thus rifted.

G is the finger-bar, which is securely bolted to a pendent flange or bracket, F¹⁰, properly shaped to receive it, and formed integral with the clip F′.

G′ is a shoe fitted to and bolted fast to the finger-bar G. It has the eye h, into which is hooked the brace m for the pole M, which is pivoted on a stud, e, formed upon the lug E¹⁰, which is protruded forward from the clip E′.

The clip D′ and the shoe G′ have the sockets d^{12} and g^{12}, respectively, to receive the ends of the upright supports for the elevated frame-work and machinery.

J is a tubular frame, bent so that its ends may be inserted one in the socket d^{12} and the other in the socket g^{12}, and comprising the longer upright, J′, the short upright J², and the slant beam J³, all integral. The rear outer clip, D², has also an upright socket, d^{22}, and on the rear sill is bolted the clasp or bracket G², having horizontal socket g^2 for the rear sill and the upright socket g^{22}, and in said sockets d^{22} and g^{22} are secured the ends of the rear tubular frame, I, similar to the frame J, and having its slant beam I³ parallel to the slant beam J³. To the front frame, J, is secured the front side board, L′, of the elevator-frame L, the same being fastened by bolts through both the uprights and bolts through the slant beam, and to the rear frame, I, is in like manner secured the rear elevator side board, L². For further security the shoe G has the flange g' standing up in front of the board L′, and secured thereto by the bolt g^{11}, and the sole or ledge g^{20}, projecting inward and affording a rest or stop for the board L′.

I claim—

1. In combination with the tubular bars and sills, the junction-clips having the tubular sockets provided with the longitudinal rift X, substantially as and for the purpose set forth.

2. In combination with the front and rear sills, the trusses having their chords and arches formed of tubular metal, each in a single piece, and having the junction-clips provided with sockets, into which the chords and arches, respectively, are bolted, and with suitable means for rigidly securing the sills, substantially as set forth.

3. In combination with the front sill, the clip D′, having the vertical socket d^{12} and the shoe G, having the vertical socket g^{12}, said clip and shoe being both rigid with the sill, and the integral tubular frame J, having its ends se-

cured in said sockets, respectively, and comprising the slant bar J^3, substantially as set forth.

4. In combination with the front and rear sills rigidly connected, the clips D' D^2 G^2, and the shoe G, having, respectively, the vertical sockets d^{12}, d^{22}, g^{22}, and g^{12}, the tubular frames I and J, each integral and comprising the uprights and the slant bars, and having their ends secured in said sockets, respectively, and the elevator side-boards secured to the frames I and J, respectively, substantially as set forth.

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