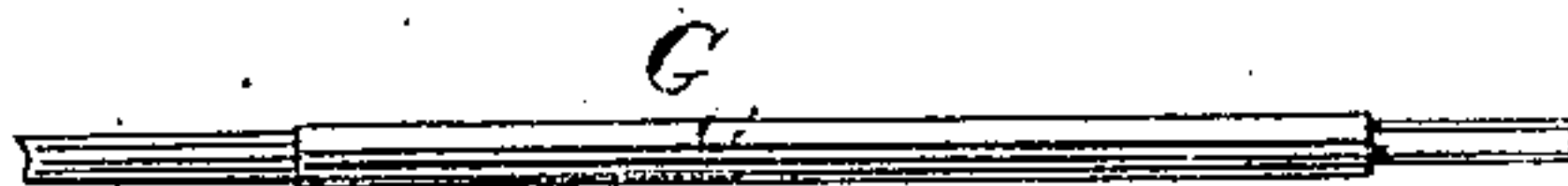
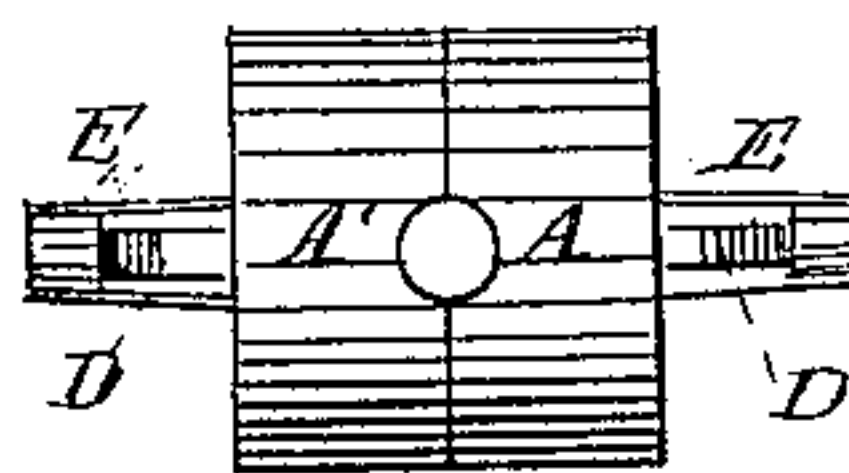
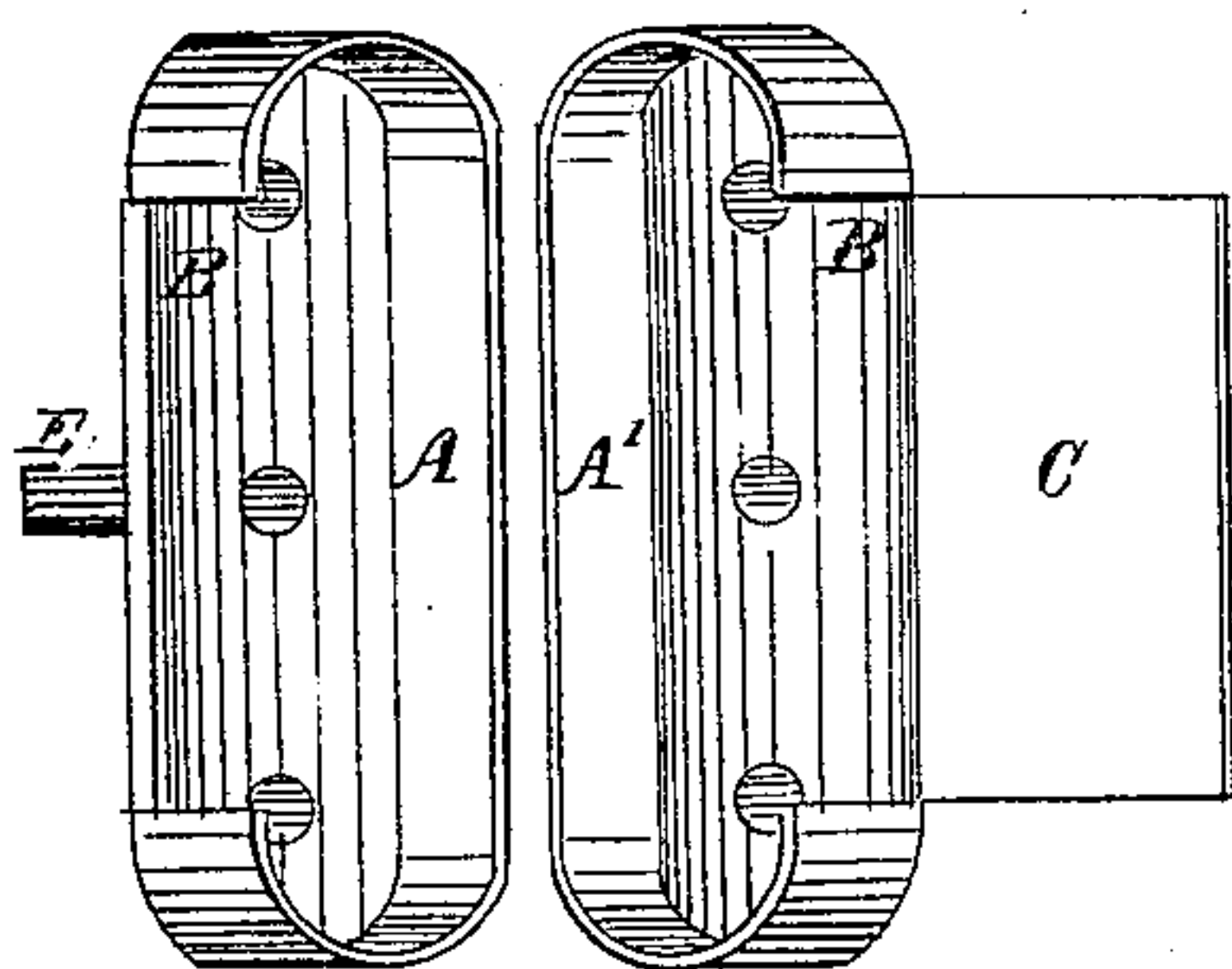
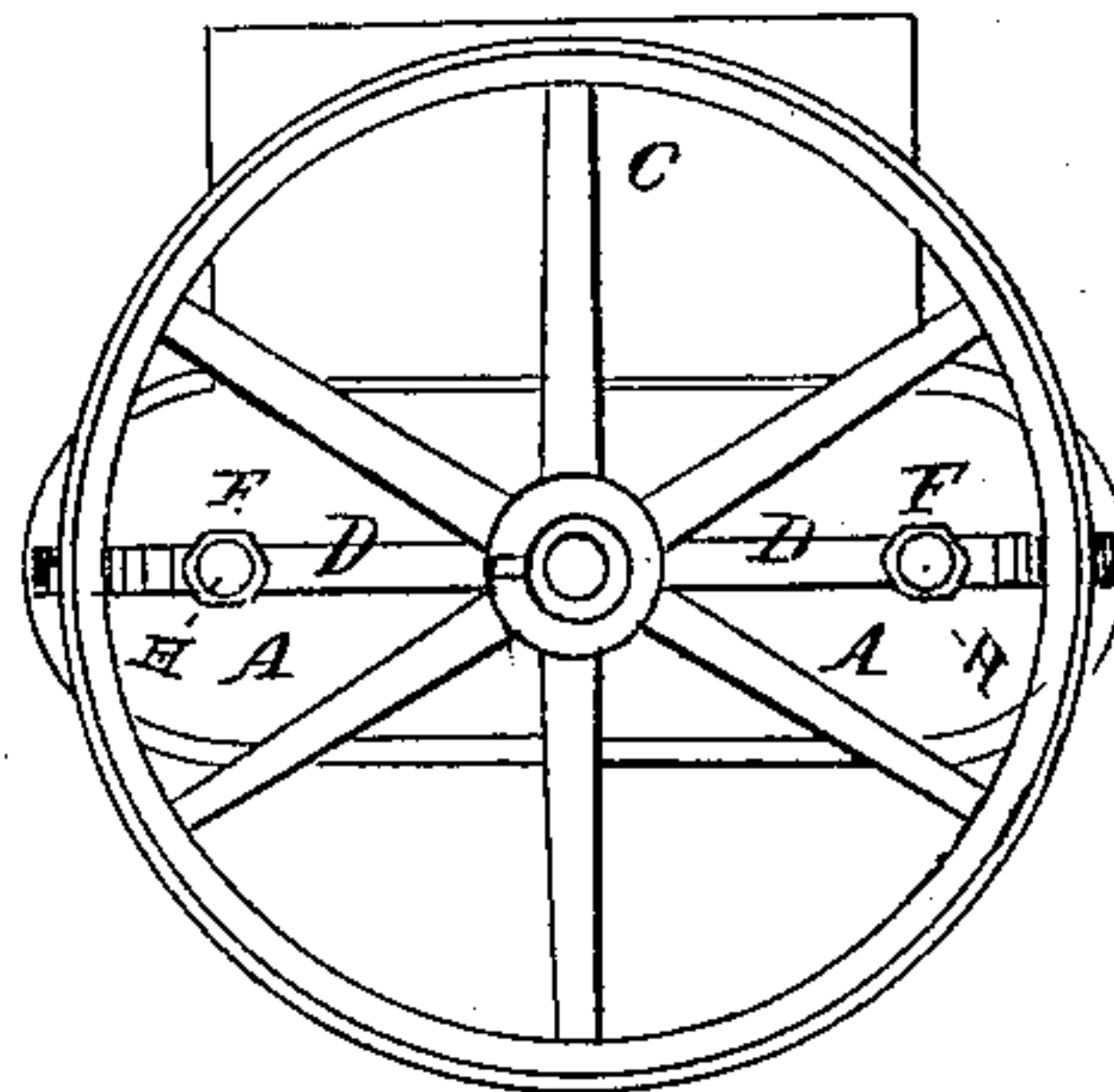
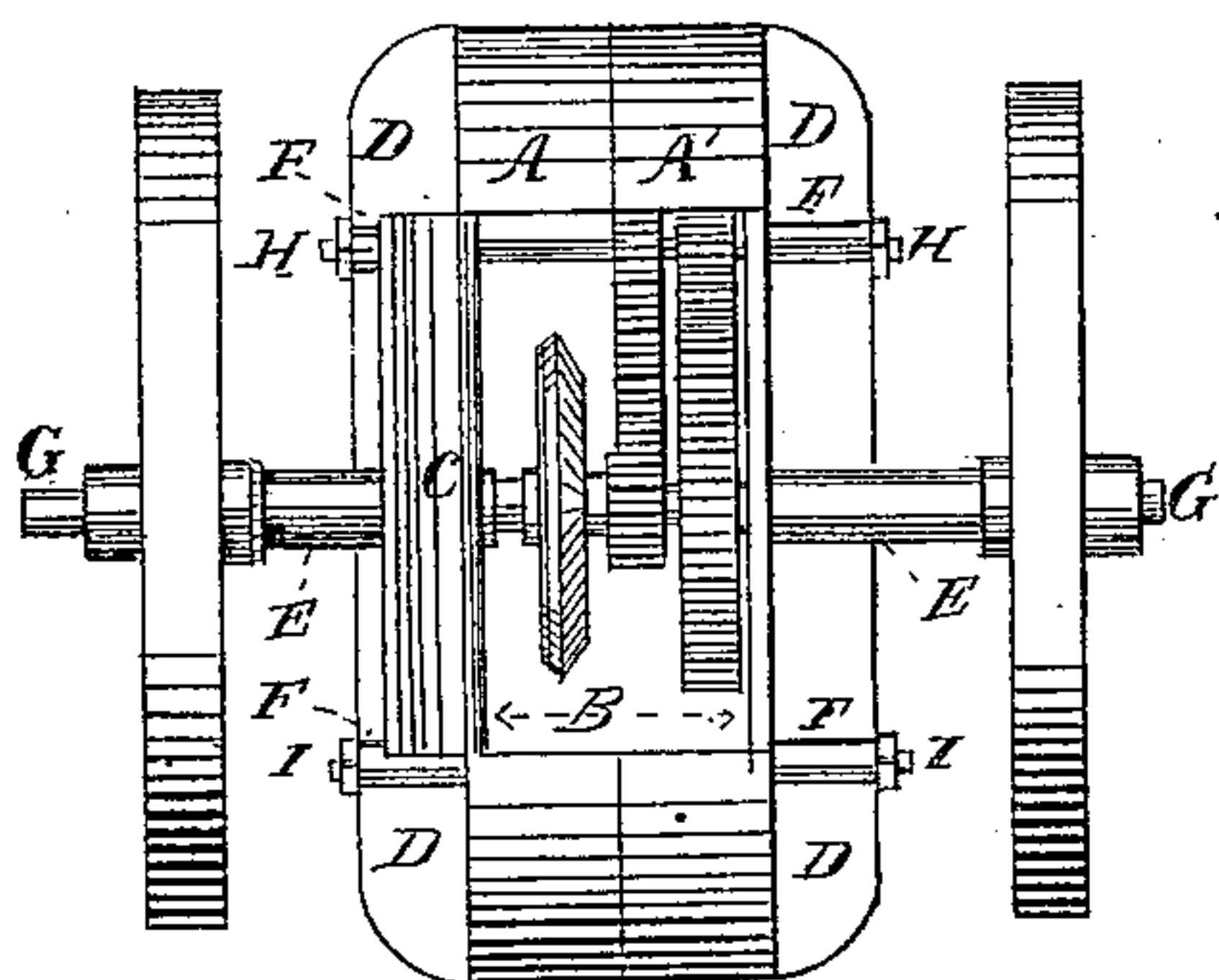


*G. W. N. Yost,
Mower.*

No. 81241.

Patented Aug. 18. 1868.



*Witnesses:
James Densmore.
H. P. Philbrook*

*G. W. N. Yost, Inventor;
by atty J. C. Clayton*

UNITED STATES PATENT OFFICE.

GEORGE W. N. YOST, OF CORRY, PENNSYLVANIA, ASSIGNOR TO CORRY MACHINE COMPANY, OF SAME PLACE.

IMPROVEMENT IN HARVESTERS.

Specification forming part of Letters Patent No. 81,241, dated August 18, 1868.

To all whom it may concern:

Be it known that I, GEORGE W. N. YOST, of Corry, Erie county, Pennsylvania, have invented a new and Improved Climax Body for Incasing and Protecting the Gearing of Grass and Grain Cutting Machines, of which the following is a specification:

The following description, with the illustration of the accompanying drawings—the specifying letters of the description referring to the corresponding letters of the drawings—will enable others to make and use the invention.

Of any material adapted thereto, make two cases or boxes, A and A', five inches deep, ten inches wide, and thirty inches long, more or less, inside, or any required dimensions. I prefer and use cast-iron, as best combining durability, cheapness, and rapidity of making. In those sides or edges of the cases composing, when together, the top of the body, leave openings B, for a mouth or entrance to oil or examine the gearing, or other purpose. To the outer edge of the mouth hinge the cover or lid C, and fasten it down to the other edge in any appropriate way.

If of cast-iron, make those parts of the cases composing, when joined, the bottom of the body an inch thick, more or less, and those parts composing the sides and top a quarter inch to a half inch thick, more or less, as sufficient strength with the least weight may determine.

Along the middle, the whole length, on the outside of that part of each case composing a side of the body, cast with or made a solid part thereof, projects a rib or web, D, three inches to four inches wide, more or less, and a quarter inch to a half inch thick, more or less, to stiffen the sides of the body, and to support the boxes or bearings of the axles.

In the middle, between the ends, cast with or made a solid part of the case, swell out each rib into a cylinder, E, two and a half inches to three inches, more or less, in diameter, and project each cylinder out from the case six inches to nine inches, more or less. Midway between the middle cylinder and each end of each case, in like manner, swell out each rib into a smaller cylinder, F, two inches in diameter, more or less, and as long as the rib is wide.

Bore holes through the large cylinders for

the main axle to run in, and through the small cylinders for the axle-bolts to go through, to join and fasten the cases together into the body. Make a main driving-axle, G, of steel or other suitable material, two and a half inches in diameter, more or less, and long enough to reach through the body and the two main cylinder boxes, and to receive the traveling-wheels, draft-tongue, and other attachments, as may be desired.

Make an axle-bolt, H, of steel or any proper material, one and a half inch in diameter, more or less, with a pin through or head on one end, and a screw and nut on the other end, and long enough to reach through the body, and through the rear small corresponding cylinders F, and to receive the head and nut.

Make a support-bolt, I, similar in size and length to the axle-bolt H, with a part midway between the ends square or flat on the top side, adapted to hold and support a box for a gudgeon of a shaft or wheel.

Join the faces of the cases A and A', with the openings B up, and with the main axle G through the middle and through the main cylinders E, and screw them solidly together, with the axle-bolt H through the small cylinders F, midway between the middle and hind end, and with the support-bolt I through the small cylinders F, midway between the middle and fore end.

Thus made, it is an exceedingly neat, simple, compact, tight, and cheap body for incasing and protecting the gearing; and it dispenses with all other frame-work, as it will receive and hold all the necessary gearing, and to it can be attached all other needed machinery for an ordinary two-wheeled grass-cutting and grain-cutting machine.

A special and important feature of the invention consists in putting the main axle G through the middle of the body, and the axle-bolt H midway between the middle and hind end, and the support-bolt I midway between the middle and fore end, so that the gearing may be so distributed as to enable the body to be evenly balanced on the axle. The body so made without the gearing necessarily is exactly evenly balanced, and this way of making it permits of such an arrangement of gearing as to maintain that evenness of balance.

Heretofore the gearing of such machines

has been covered by casings more or less suitable; but I think my invention an improvement on all others.

I do not, therefore, broadly claim incasing the gearing, but limit myself to the specific way described. Therefore,

What I claim, and desire to have patented, is—

The two cases A and A', combined with the main axle G, when the axle is put transversely through the middle of the cases, so that the body may be evenly balanced thereon, and combined with and fastened together by the axle-bolt H, when the axle-bolt is put through

the cases parallel with the main axle, midway between the middle and hind end, and also combined with the support-bolt I, when the support-bolt is put through the cases parallel with the main axle, midway between the main axle and the fore end.

In testimony that I claim the above-described invention I have hereunto signed my name this 15th day of February, 1868.

G. W. N. YOST.

Witnesses:

W. J. HOWE,

JO. C. CLAYTON.