(No Model.) 2 Sheets—Sheet 1.

A. BOOTH.

BUNDLE CARRIER AND BAND CUTTER.

No. 487,707. Patented Dec. 13, 1892.

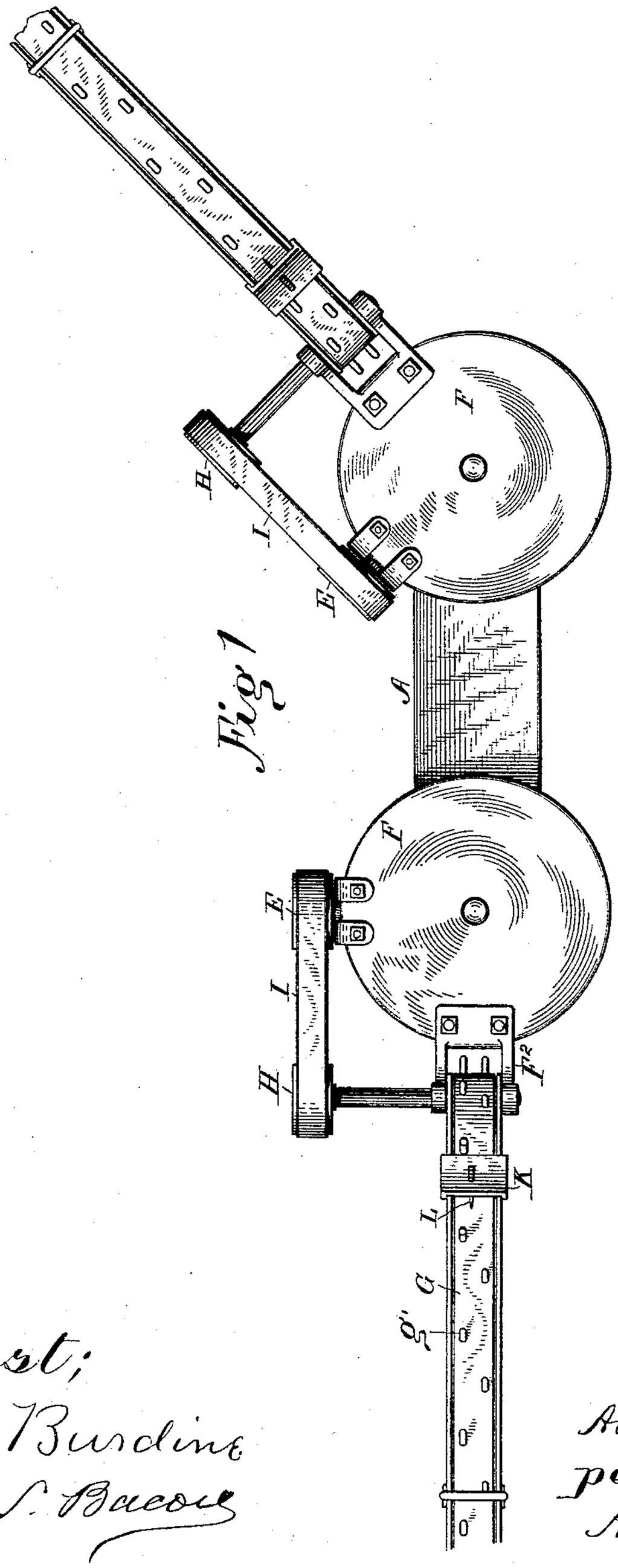

Fig 1

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per
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(No Model.) 2 Sheets—Sheet 2.

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Fig 2

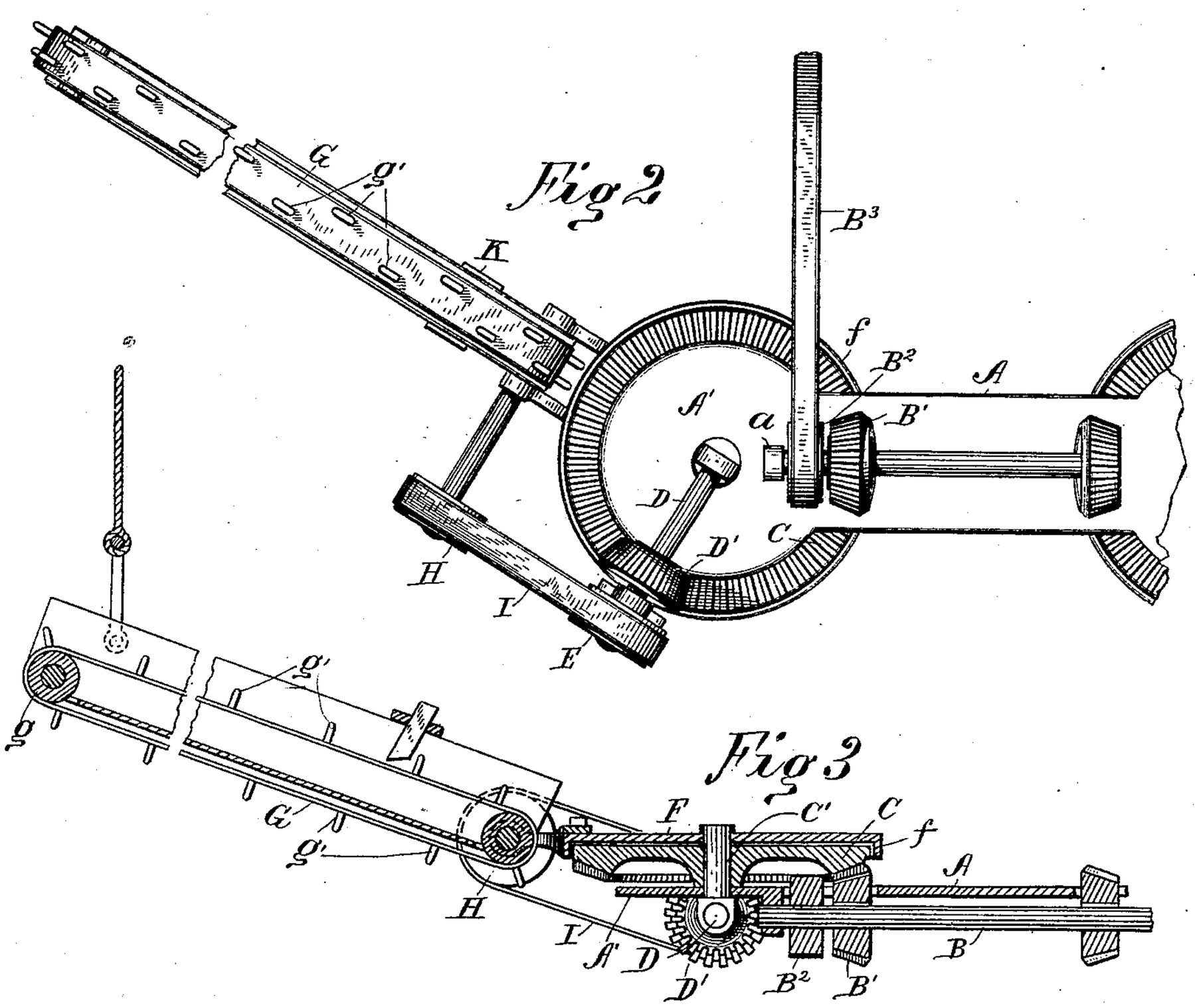
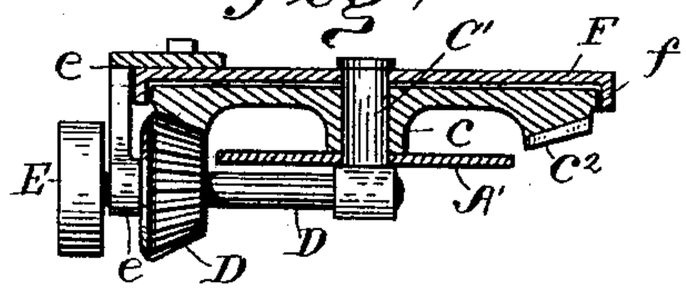


Fig 3

Fig 4



Attest;
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Inventor,
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UNITED STATES PATENT OFFICE.

ALONZO BOOTH, OF AUGUSTA, MONTANA.

BUNDLE-CARRIER AND BAND-CUTTER.

SPECIFICATION forming part of Letters Patent No. 487,707, dated December 13, 1892.

Application filed May 3, 1892. Serial No. 431,742. (No model.)

To all whom it may concern:

Be it known that I, ALONZO BOOTH, a citizen of the United States, residing at Augusta, in the county of Lewis and Clarke and State of Montana, have invented certain new and useful Improvements in Bundle-Carriers and Band-Cutters; 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 an improvement in bundle-carriers and band-cutters; and it consists in the construction and arrangement of parts more fully hereinafter described, and definitely pointed out in the claims.

The object of this invention is to provide improved means for transporting bundles of grain to thrashing-machines which will embody features rendering the device efficient and easily adjustable to any position or point from which the bundles are to be carried. I attain this object by the construction illustrated in the accompanying drawings, wherein like letters of reference indicate corresponding parts in the several views, and in which—

Figure 1 is a plan view of the improvement. Fig. 2 is a bottom plan view of the same, one side of which is broken away. Fig. 3 is a longitudinal section showing one of the tables broken away, and Fig. 4 is a detail section through one of the revolving tables.

In the drawings, A represents the supporting frame or base having enlarged circular ends A′, the central portion between the ends being arranged and adapted to fit on the table of a thrashing-machine directly in the rear of the cylinder, the same to be attached thereon in any suitable manner.

On the under side of the ends A′ are located depending lugs *a*, having journal-bearings formed therein in which a horizontal shaft B is journaled, the shaft being provided at opposite ends with beveled pinions B′, and between one of the pinions and end of the shaft is located a driving-pulley B^2, over which the driving-belt B^3 passes.

Mounted on the upper face of the ends of the supporting-frame A are beveled wheels C, having hubs *c*, which rest on the plate and through which the retaining stub-axles C′ are passed, the upper ends of the axles being flared to prevent the same from falling through, while the lower ends are passed through openings in the parts A′ and carry at their lower ends horizontal shafts D, which have keyed thereon near their outer ends suitable bevel-pinions D′, meshing with the teeth c^2, formed on the under face and at the outer edge of the wheel C, the outer ends of the shafts D carrying pulley-wheels E, and between the wheels E and bevel-pinions D′ are fixed bearings *e*, formed in depending arms *e′*, extending out from and secured to the movable cap-plates F, located on top of the wheel C, the cap-plates being pivoted on the axles C′ and formed with depending peripheral flanges *f*, fitting over the periphery of the wheel C, as plainly shown in Figs. 3 and 4.

G represents the conveyer-troughs, having journaled in the opposite ends thereof the drums *g*, over which the endless carrying-aprons G′, provided with suitable outwardly-projecting pins *g′*, pass. The inner ends of the troughs G are pivotally secured to brackets F^2, rigidly supported by the tables or caps F. The shafts of the inner drums of the carrying-aprons are extended out beyond the troughs and have secured thereon pulleys H, over which connecting driving-belts I pass, the opposite ends of which also pass over the pulleys E.

K represents cross-bars extending across the upper face of the carrying-troughs. These bars have inserted therethrough band-cutting knives L, located centrally and extended down to a point within the path of the moving bundles.

M are the suspending-cords by which the carrying-troughs are retained in an inclined position.

It will be understood that the above-described construction constitutes carriers for opposite sides of the machine, their construction being the same in every respect, with the exception of the pulley B^2.

In operation power is transmitted through the belt B^3 to the shaft B, rotating the pinions B′, which project through suitable apertures in the plate A and mesh with the teeth of the wheels C, thereby rotating the said wheels, which in turn rotate the pinions D′, the shafts D, the pulley-wheels E, and through the me-

dium of the belts I rotate the drums at the inner ends of the carrying-aprons. When it is desired to adjust the carrying-aprons, they can be moved laterally by virtue of the pivoted plates, the pinions D′ at the same time being carried around by the plates, but at all times held in engagement with the teeth of the wheels C. It will also be seen that the conveyers may be adjusted vertically by virtue of their pivotal connections with the plates F.

In the construction herein shown and described I have not mentioned any particular arrangement for placing or securing the device to the thrashing-machine; but any suitable means may be employed, or the same may be supported independent of the thrashing-machine on suitable ground supports.

I am aware that many minor changes in the construction and arrangement of the parts of my device can be made and substituted for those herein shown and described without in the least departing from the nature and principle of my invention.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a bundle-carrier for thrashing-machines, the combination, with the supporting-plate, a horizontal shaft journaled thereon, a bevel-pinion on the shaft, a pulley on the shaft, a horizontally-disposed gear-wheel mounted on the plate, having teeth on its under face and an apertured hub, an axle passing through said hub, a horizontal shaft having its inner end supported by said axle, a bevel-pinion on the shaft meshing with the teeth of said wheel, a revoluble table or plate mounted on the axle above the wheel, a pulley on the shaft supported by the axle, a bearing depending from the cap through which said shaft passes, a conveyer-trough having an endless apron therein, drums over which said apron passes, a pulley on one of said drums, and a belt connecting said pulley with the pulley on the axle-shaft, substantially as described.

2. In a bundle-carrier for thrashing-machines, the combination, with a revoluble table or plate, a conveyer-trough pivotally secured thereto, a gear-wheel below the plate, an axle passing through said wheel and to which the plate is secured, a horizontal shaft supported by said axle and plate, a pinion on said shaft meshing with said gear-wheel, a connection between said shaft and the conveyer for actuating the apron thereof, and means for rotating the gear-wheel, substantially as described.

3. In a bundle-carrier for thrashing-machines, the combination, with a revoluble table or plate, a conveyer-trough hinged thereto, a gear-wheel below the plate, an axle passing through the wheel, a shaft, a beveled gear on the shaft, a depending bearing on the plate through which the shaft passes, a pulley on the outer end of the shaft, a pulley on the conveyer-trough, a band connection between the two pulleys, a band-cutter on the conveyer-trough, and means for actuating the several parts, substantially as described.

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

ALONZO BOOTH.

Witnesses:
THOS. G. WOODS,
C. C. WOODS.