

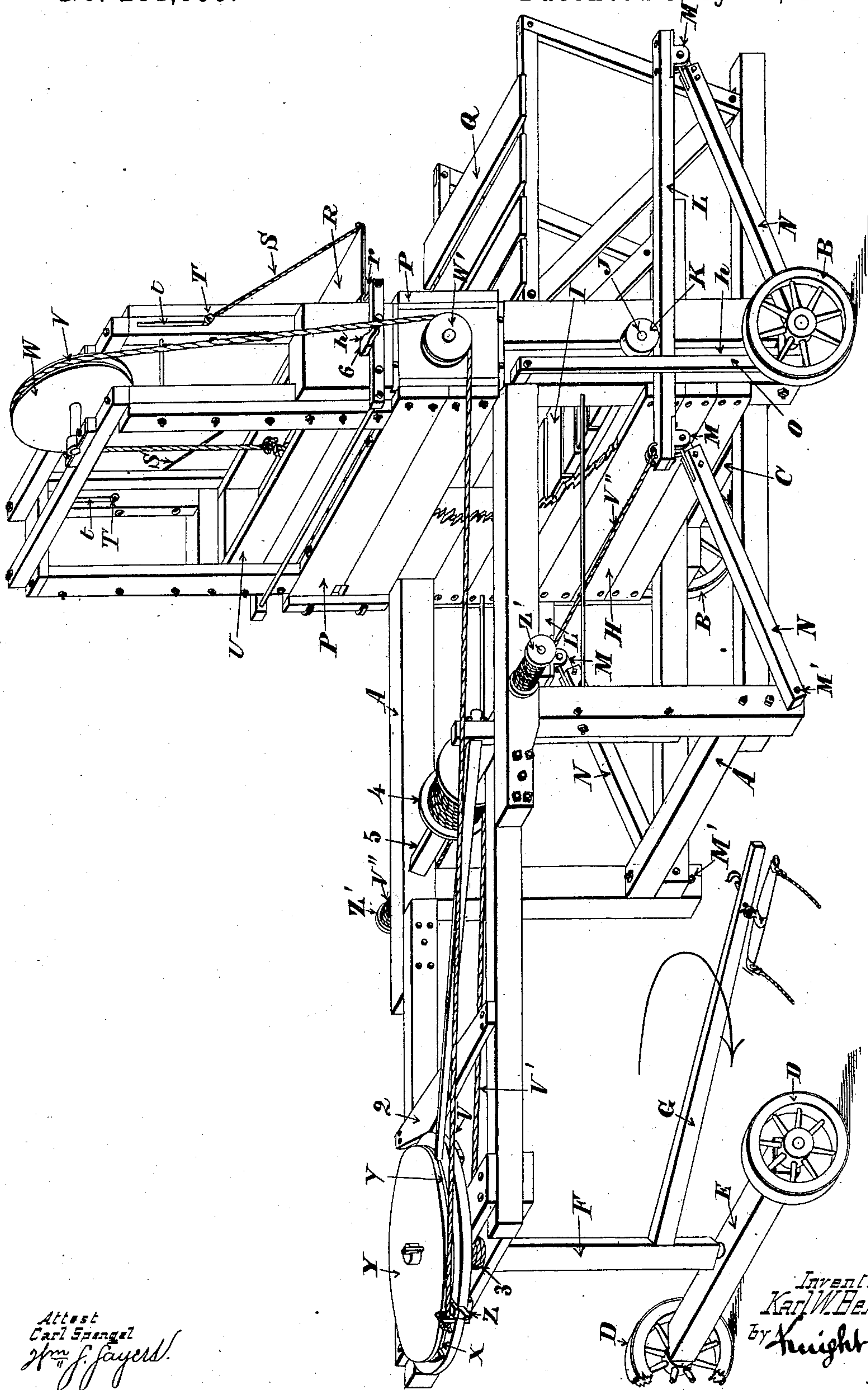
(No Model.)

K. W. BENNET.

BALING PRESS.

No. 281,959.

Patented July 24, 1883.



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UNITED STATES PATENT OFFICE.

KARL W. BENNET, OF MANCHESTER, ASSIGNOR OF ONE-HALF TO FRANKLIN NEVITT AND SAMUEL H. SPOONER, SR., OF LAWRENCEBURG, IND.

BALING-PRESS.

SPECIFICATION forming part of Letters Patent No. 281,959, dated July 24, 1883.

Application filed April 2, 1883. (No model.)

To all whom it may concern:

Be it known that I, KARL W. BENNET, of Manchester, Dearborn county, Indiana, have invented a new and useful Improvement in Baling-Presses, of which the following is a specification.

The drawing is a perspective view of a baling-press embodying my improvements.

A represents a suitable frame, which, for convenience of transportation, may be mounted on wagon-wheels, of which two, B, are on stationary axles C, and two others, D, are on a swinging axle, E, which is connected to the frame by a turn-post, F, that carries the sweep G, to which the team is hitched for operating the press.

H represents a vertical rectangular tube or trunk whose interior transverse section corresponds with that desired for the bale. Portions of the wall of said trunk are broken away in the drawing to show a piston-floor, I, which fits loosely within said trunk and occupies different portions of its height at different stages in the operation, as hereinafter explained. Stud J, that project from said floor through slots *h* in the trunk sides, carry rollers K, that rest upon bars L, to which are connected, by joints M, two arms, N, whose lower extremities are connected by joints M' to the frame. Elevation or depression of the said bars in the manner to be presently explained operates to elevate or depress the floor.

O are guide-strips to prevent lateral displacement of the bearing-bars L.

P may represent a customary door for liberation of the completed and bound bale.

Q is a platform for reception of the loose hay and for a stand-place for the pitcher. Said platform also receives the completed bale, and is at a convenient height to enable transfer of the bales to a wagon or car.

R is a flap, one edge of which is secured to the frame by hinge *r*, the free edge of said flap being supported in the represented horizontal position by cords or chains S, whose upper ends carry tappets T, that occupy vertical grooves *t* in the frame, and which, being momentarily elevated by the beater, operate to close or partially close said flap at the highest position of the beater.

The beater U is a rectangular box that occupies loosely the trunk H, and may be loaded with rock or other heavy material. The said beater has attached to it a cord, V, which, being led around sheaves W W', carries at its other extremity a runner or carrier, X, that occupies a circumferential groove, *y*, in a wheel, Y, that is keyed to the post F. Z is a driver on said wheel, whose pressure against the runner X compels it to rotate with the post and the wheel Y. This driver is held to the position shown in the drawing by a spring, (not shown,) and operates to carry the runner around with said wheel, and consequently to elevate the beater to nearly the summit of the frame, when said driver, reaching the striker 2, is momentarily pressed inward by the said striker, so as to release the driver and to permit the descent of the beater, after which the continued rotation of the wheel Y operates to again engage the carrier and to elevate the beater. A drum, 3, of much less diameter than the wheel Y, is keyed upon the same post, and communicates by cord or chain V with drum 4 upon counter-shaft 5, keyed to projecting ends of which are drums Z', of relatively smaller diameter, which drums connect by cords or chains V'' with the bearing-bars L. Slots *h* in the ends of the trunk receive bolts 6, which, after the hay of one bale has been sufficiently beaten, are pushed in, so as to hold the beater, as shown in the drawing, at an elevation proper to enable it to do duty as abutment to sustain the up-pressure of the floor I in that stage of the process in which said floor I discharges the offices of a piston.

The operation is as follows: The floor I and beater U being both at their highest position, the door of the trunk H being closed and the parts all at rest, the operator, standing on the platform Q, fills the trunk with loose hay. The start of the team then in the direction indicated by the arrow operates to liberate the beater U, which descends upon and compacts the hay. This motion at the same time operates by slackening the cords V'' to somewhat lower the bearing-bars L, and consequently the floor I. The continued motion of the team re-elevates the beater, and when the latter has reached nearly its highest elevation the team is stopped

and the trunk again supplied with more hay, when the team, being again started, the beater again descends and is again elevated, and at the same time the floor lowered a further distance. This part of the process may be continued until the floor has sunk to its lowest possible position at the bottom of the trunk, or may be arrested at such point short of such position at which a desired weight of hay has been deposited in the trunk. The beater is then, by insertion of the bolts 6, secured at the position shown in the drawing, so as to do duty as an abutment. The rope is temporarily disengaged from the carrier X, and the sweep G rotated in the opposite direction, so as to elevate the floor I and to press the hay into the dimensions of a bale. The thus-pressed mass of hay is then bound, the door opened, and the bale discharged onto the platform Q.

I claim as new and of my invention—

1. In a baling-press, the bearing-bars L, supported in arms N in the described combination with piston-floor I, and operated by the same turning-post, F, employed to operate the beater U, substantially as set forth.

2. In a baling-press, the combination, with trunk H, of turn-post F, piston-floor I, bearing-bars L, arms N, beater U, cords V' V' V'', sheaves W W', runner X, wheel Y, driver Z, striker 2, drums 3 4, and beater lock-bolts 6, substantially as set forth.

In testimony of which invention I hereunto set my hand.

KARL W. BENNET.

Attest:

GEO. H. KNIGHT,
S. S. CARPENTER.