

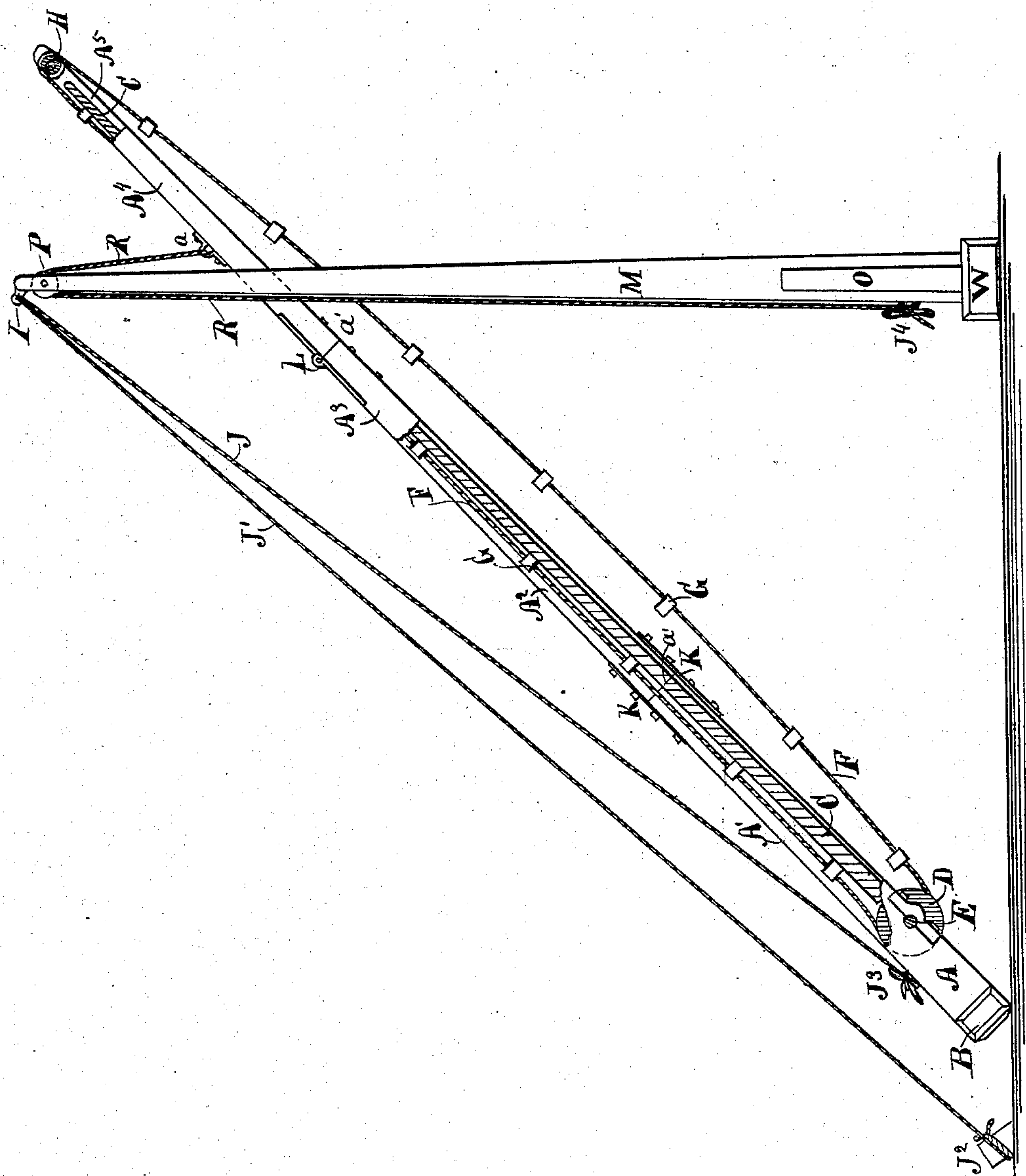
(No Model.)

A. COSSEL.

## PORTABLE STRAW STACKER.

No. 284,280.

Patented Sept. 4, 1883.



WITNESSES;  
J. H. Bennett.  
John Mueller

INVENTOR.  
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# UNITED STATES PATENT OFFICE.

AHIJAH COSSEL, OF WAYNE, MARION COUNTY, INDIANA.

## PORTABLE STRAW-STACKER.

SPECIFICATION forming part of Letters Patent No. 284,280, dated September 4, 1883.

Application filed September 28, 1880. (No model.)

*To all whom it may concern:*

Be it known that I, AHIJAH COSSEL, a citizen of the United States, residing in Wayne township, in the county of Marion and State of Indiana, have invented a new and useful Portable Straw and Hay Stacker, of which the following is a specification.

The entire device is represented by a single view, showing a side elevation with the straw-stacker elevated and secured ready for operation.

The main frame of the stacker is composed of several sections, as  $A A' A^2 A^3 A^4 A^5$ . The side rails of these sections form a continuous taper from the base  $B$  to the extreme upper end. The side rails  $A$  are made fast in the base-piece  $B$ , and the joints  $a'$  of the sections may be either hinged together, as at  $L$ , or secured by plates and bolts, as at  $K$ . Between the side rails  $A$  is secured a floor,  $C$ , for the carrier-bolt  $F G$  to slide on. At a convenient distance from the base  $B$  is a shaft,  $E$ , provided with a sheave or pulley,  $D$ , near each end, inside of the side frames  $A$ , on which the chains or ropes  $F$  of the carrier-belt operate. The shaft  $D$  is provided with a pulley (not shown) at one end outside of the side frame  $A$  for the purpose of receiving power from a thrashing-machine or engine, and one end of the shaft  $D$  may also be provided with a means for attaching it to the tumbling-rod of a horse-power.

The carrier-belt consists of two chains or cords,  $F$ , with slats or bars  $G$  secured to each at regular intervals. This belt operates on the sheaves or pulleys  $D$  below, and on the pulleys  $H$  above, as shown.

The upright or hoisting guide consists of two parallel upright standards,  $M$ , the lower ends of which are secured in the base  $W$ , and firmly braced by the angle-braces  $O$  on each side. The upper end of each standard  $M$  is provided with a pulley or sheave,  $P$ , over which the hoisting-ropes  $R$  operate. These hoisting-ropes  $R$  have one end made fast to

the side rails of the carrier. These ropes, after passing over the pulley  $P$ , are carried to the base of the uprights, and are long enough to permit the carrier to be lowered onto the base  $W$ . When the carrier-frame is elevated, as shown, then the ropes  $R$  are made fast to cleats  $J^4$ , or other fastenings at the base of the guides  $M$ . The upper ends of each upright  $M$  is provided with an eyebolt,  $I$ , or other means for fastening the guy-ropes  $J J'$ . These guy-ropes  $J J'$  are long enough to fasten to stakes driven into the ground, as at  $J^2$ , or to cleats on the foot of the frame, as at  $J^3$ , and support the standards  $M$ , as shown.

In operation the stacker is carried to the place where the straw or hay is to be stacked, the uprights  $M$  are then raised, and the guy-ropes  $J^2 J^3$  made fast. The straw-carrier frame  $A$  is then placed between the uprights  $M$  and elevated by the ropes  $R$  to any desired height and the ropes  $R$  made fast.

If power can be furnished from a thrashing-machine or engine to the shaft  $D$  by a belt, then the carrier-belt  $F G$  may be thus operated to elevate the straw or hay and deposit it on the stack. But in case no power can be obtained from a thrashing-machine or engine, then a horse-power of any kind may be attached to the shaft  $D$  and operate the carrier-belt.

What I claim as my invention, and desire to secure by Letters Patent, is—

The hoisting-guides  $M$ , with eyebolts  $I$  in their tops, combined with the guy-ropes  $J J'$ , one end of each guy-rope being attached to the lower end of the carrier-frame and the other ends adapted to be secured to the ground or other support, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

AHIJAH COSSEL.

Witnesses:

E. O. FRINK,  
G. H. RENNETT.