

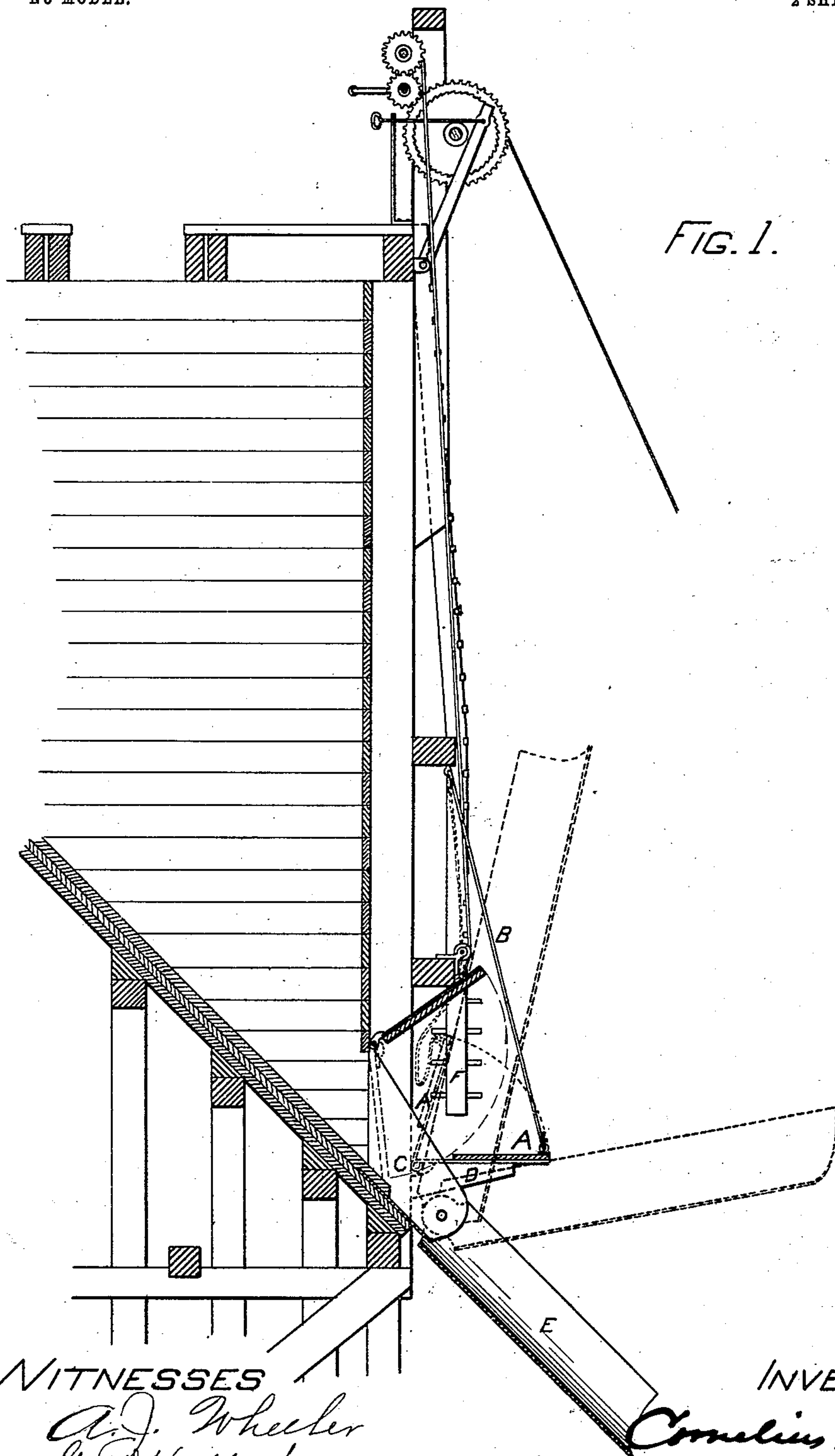
No. 751,000.

PATENTED FEB. 2, 1904.

C. PALMER.
ELEVATED STORAGE DOCK.
APPLICATION FILED APR. 23, 1903.

NO MODEL.

2 SHEETS—SHEET 1.



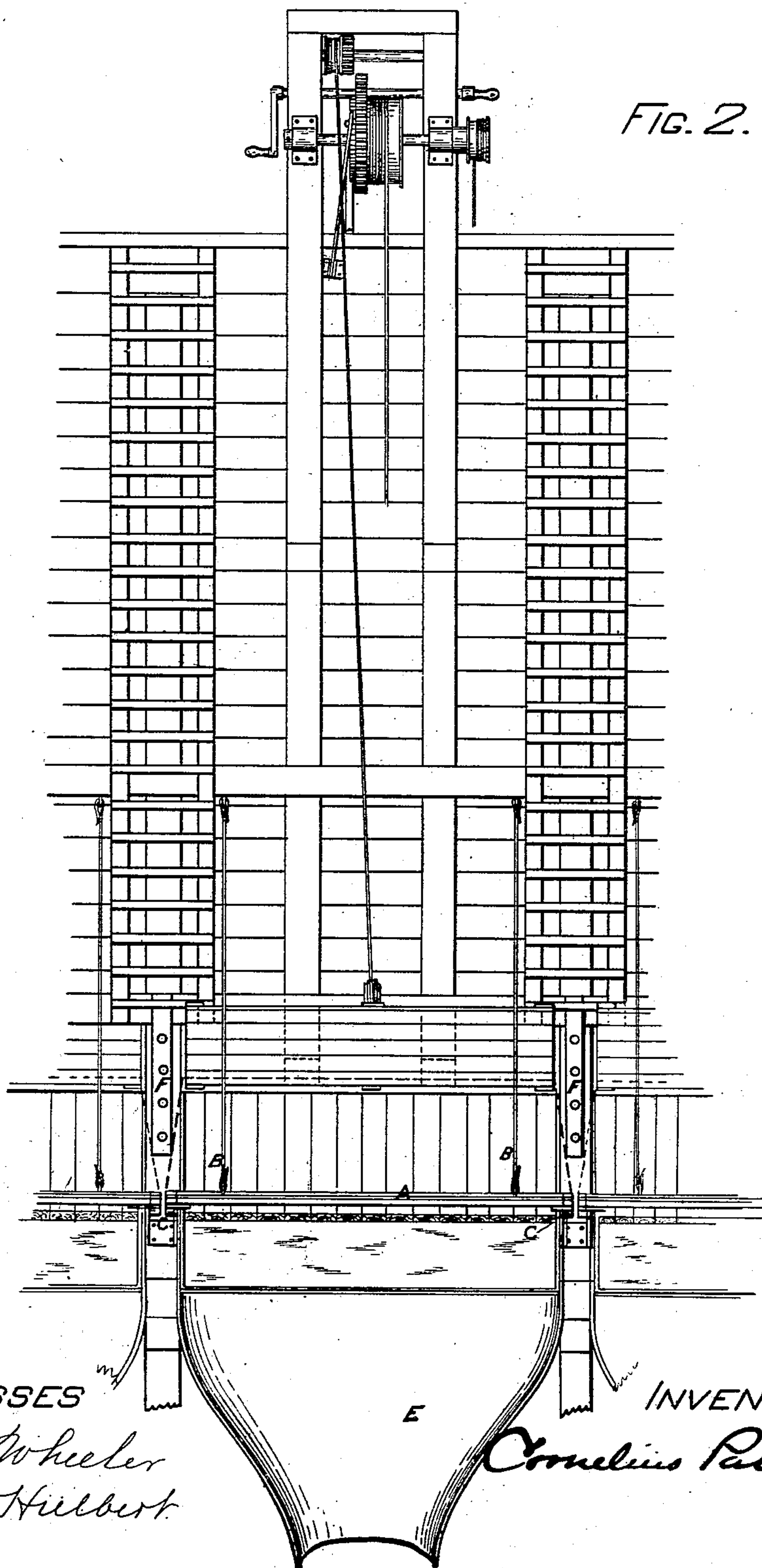
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UNITED STATES PATENT OFFICE.

CORNELIUS PALMER, OF ESCANABA, MICHIGAN.

ELEVATED STORAGE-DOCK.

SPECIFICATION forming part of Letters Patent No. 751,000, dated February 2, 1904.

Application filed April 23, 1903. Serial No. 153,937. (No model.)

To all whom it may concern:

Be it known that I, CORNELIUS PALMER, a citizen of the United States, residing at the city of Escanaba, county of Delta, State of Michigan, have invented certain new and useful Improvements in Platforms for Elevated Storage-Docks, of which the following is a specification.

My invention relates especially to improvements in the platform on which workmen stand at the outlet of the storage-pockets of elevated docks for the purpose of opening and closing the doors and for loosening the ore or other contents when it becomes necessary.

The object of my invention is to provide a movable or hinged platform that shall follow automatically the movement of the discharge-spout and be always in place when required for use. It is also to provide a specially-constructed ladder, affording access for the workman to the platform.

My invention consists in the devices for accomplishing the purposes above described as detailed and explained in the specifications.

This platform is devised especially for use in connection with spouts or discharge-chutes that are made of the full width of the storage-pockets. In the elevated storage-docks which contain a continuous line of storage-pockets it has heretofore been the custom to contract the outlets to a door narrower than the pocket itself and provide a chute of the same width as the door to conduct the contents to a vessel or other vehicle placed along the dock. The narrow doors and chutes left room between for the construction of platforms for the accommodation of the workmen, who straddled the opening while working to loosen the contents; but the use of a door and chute as wide as the pocket left only the space between them of the thickness of the partitions between the pockets, thus precluding the possibility of standing room. This gave rise to the necessity of a platform that should be adapted to such an outlet, and the hinged platform was invented to meet the new conditions. Of course such a platform can, if desired, be used in connection with the old and still prevalent narrow chutes; but with the wide chutes it is

a necessity. It will be observed also that this platform is continuous along the entire front of the pocket, affording ample floor-room for the workman at any point in the opening or openings. The outlet may either be entirely unobstructed from side to side of the pocket, or it may be divided in two or three by vertical members supporting the front walls of the pockets.

In the drawings, Figure 1 is a half-section of a pocket with my platform A attached, and Fig. 2 is a front view of the same.

The platform is attached by hinges C C to the face of the pocket. In the latter view it will be noted that the platform is a little longer than the width of the chute, so that the latter when being raised lifts the platform with it, where it remains until the chute is again lowered for the discharge of the contents of the pocket and follows it to its horizontal position. Suspenders B B are provided, as shown, made of such a length as will just hold the platform level. In cases where there are vertical posts extending to the bottom of the door between the side partitions of the pockets brackets D may be fastened to them to give an additional support to the platform.

The workman who uses the platform comes from the deck of the dock, and a common ladder is provided as far as it can go without encountering the raised platform. It will be noted that the ends of the contiguous platforms prevent the ladder from reaching down to its level. To cover that gap and afford access to the platform, its ends are so adjusted in length or are so cut on a slant as will when lifted leave space enough for a single ladder-strip F, turned on edge, so that the rungs are at a ninety-degree angle with the upper ladder, and by this the workman reaches the platform.

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

1. In a storage structure the combination of a pivoted platform, with a swinging chute-section, and means for supporting said platform in a horizontal position.

2. A movable platform A hinged at C C

to the front of a storage-pocket in combination with a hinged discharge-chute E, the operation of which also operates the platform as required, substantially as and for the purpose specified.

5 3. A movable platform, hinged at C C to a front of the storage-pocket, and supported

in a horizontal position as described, in combination with a supplementary ladder F, substantially as and for the purpose specified.

CORNELIUS PALMER.

Witnesses:

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A. J. WHEELER.