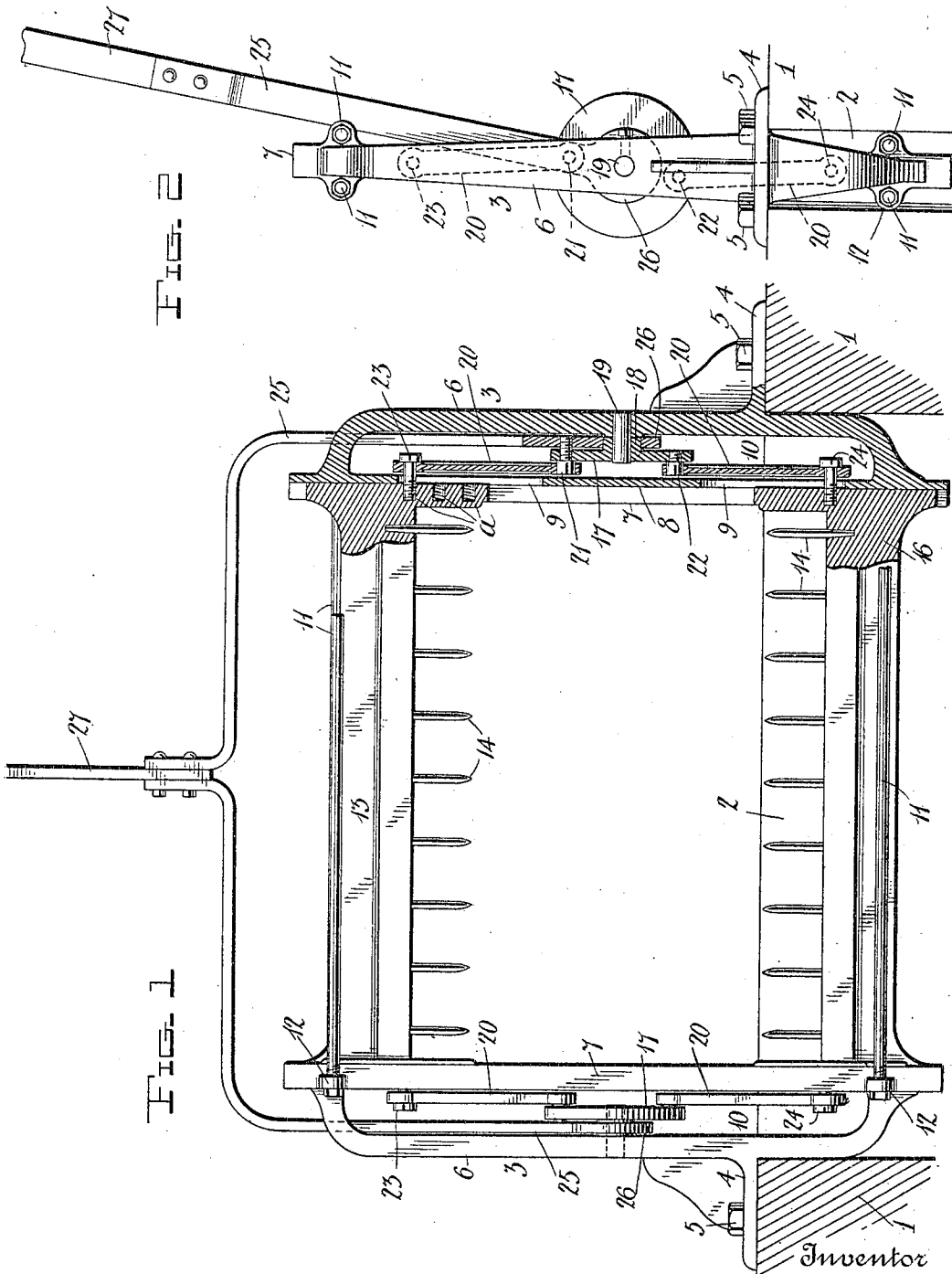


No. 831,721.

PATENTED SEPT. 25, 1906.

W. O. HAY.  
MACHINE FOR SEVERING ICE.  
APPLICATION FILED DEC. 11, 1905.

2 SHEETS—SHEET 1.



Witnesses  
*L. E. Gordon*  
*C. H. Griesbauer.*

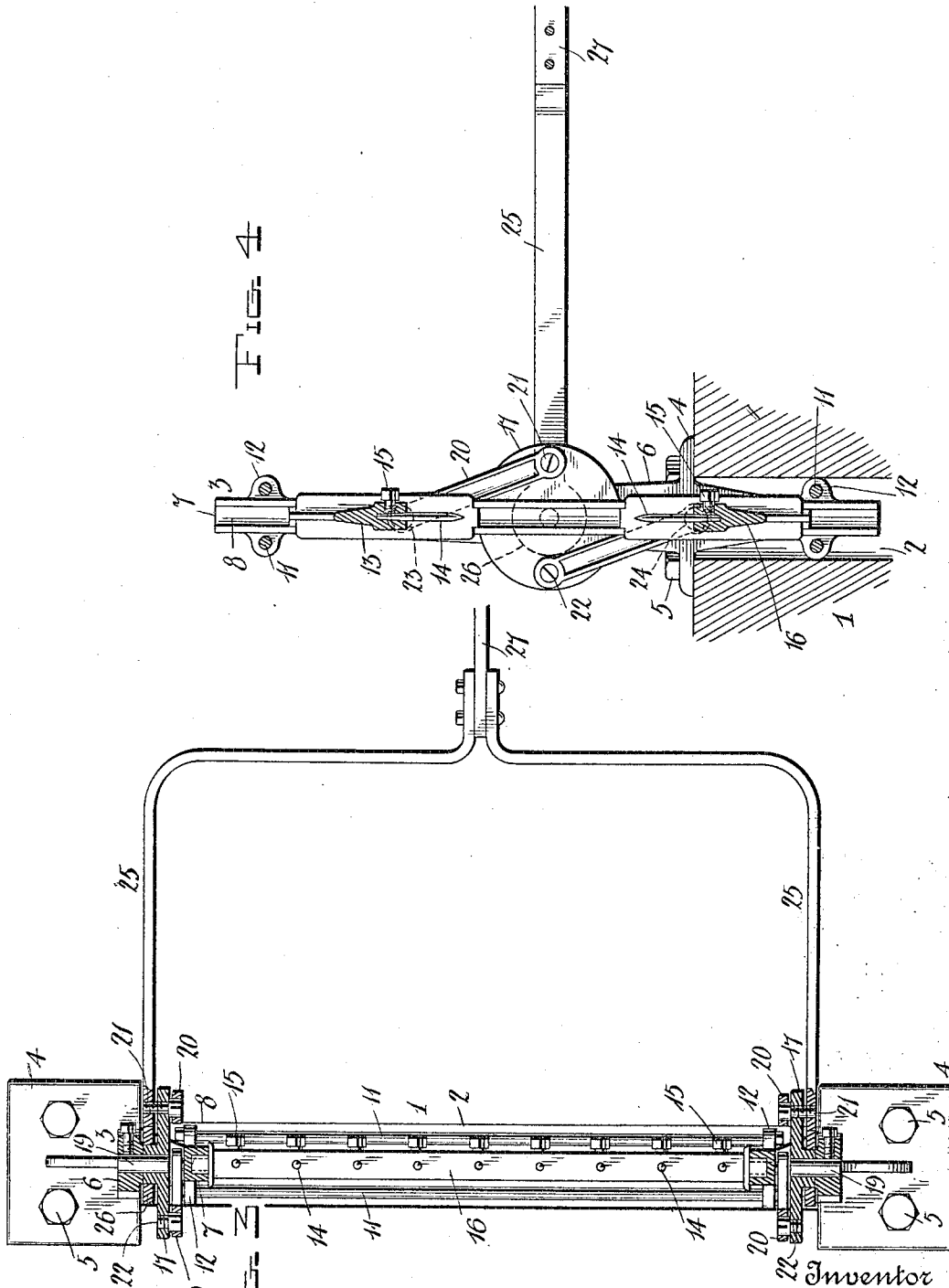
Inventor  
*Wellington O. Hay*  
by *A. B. Wilson*  
Attorney

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2 SHEETS—SHEET 2.



Witnesses  
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# UNITED STATES PATENT OFFICE.

WELLINGTON O. HAY, OF CAMDEN, SOUTH CAROLINA, ASSIGNOR OF ONE-HALF TO JAMES T. HAY, JR., OF BOYKIN, SOUTH CAROLINA.

## MACHINE FOR SEVERING ICE.

No. 831,721.

Specification of Letters Patent.

Patented Sept. 25, 1906.

Application filed December 11, 1905. Serial No. 291,343.

*To all whom it may concern:*

Be it known that I, WELLINGTON O. HAY, a citizen of the United States, residing at Camden, in the county of Kershaw and State of South Carolina, have invented certain new and useful Improvements in Machines for Severing Ice; and I do 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 machines for severing ice; and one of the principal objects of the same is to provide a machine which will quickly cut a block of ice and leave a smooth plain edge or end.

Another object is to provide a machine of comparatively simple construction which will efficiently sever a block of ice at the desired point and in which the severing-tools are adjustable toward and from each other.

Another object is to provide a machine for cutting ice having cross-heads armed with pins adapted to be brought together by crank-disks and pitmen, said pins adapted to be inserted in the ice in line with each other for making a clean cut or division of the ice at any point.

These and other objects are attained by means of the construction illustrated in the accompanying drawings, in which—

Figure 1 is an elevation and partial section of a machine made in accordance with my invention. Fig. 2 is a side elevation of the same. Fig. 3 is a horizontal section, and Fig. 4 is a vertical section.

Referring to the drawings for a more particular description of my invention, the numeral 1 designates a platform, runway, or floor provided with a slot or opening 2, in which the lower end of the machine is located and secured. Guideways 3 at the sides of the machine are provided with lugs 4, adapted to rest upon the top of the platform or floor, and bolts 5 pass through the lugs 4 and into the floor or platform for securing the guideways rigidly in place. These guideways each consists of an outer member having curved upper and lower portions 6, outwardly-projecting flanges 7, a groove 8, provided with slots 9, and an intermediate space 10 between the members 6 and 8 for inclosing the crank-disks and pitmen which operate the machine. These guideways are connect-

ed at opposite sides of the top and bottom by cross bars or bolts 11, which extend from one guideway to the other and through lugs 12, said cross-bars being adjustably held in place by the bolts. An upper cross-head 13 is fitted to slide between the flanges 7 of the guideway, and secured to the cross-head 13 are pins 14, said pins being secured in place by means of the binding-screws 15. Any suitable number of these pins 14 may be utilized. A lower cross-head 16 of similar construction to the cross-head 13 is mounted to slide between the flanges 7, and said cross-head 16 is also provided with a series of pins 14, also secured by binding-screws, said pins being preferably in line with the pins of the upper cross-head. To move the cross-heads toward and from each other, I have provided crank-disks and pitmen comprising a crank-disk 17, having a hub 18 provided upon a pin 19, extending through the hub 18 and through the member 6 of the guideway. Secured to the disk 17 are the pitmen 20, said pitmen being pivotally connected by screws 21 22 to the crank-disk and their opposite ends being secured by screws 23 24 to the cross-heads.

The upper cross-head 13 is provided with a series of sockets *a* to provide an adjustment for the lever 20 by means of the screw 23. This adjustment will alter the throw of the upper cross-head, as will be obvious. Secured to the hub 18 of the disk 17 is an operating-lever comprising the two side bars 25, having enlarged ends 26, each provided with an aperture which fits the hub 18 of the disk 17, and said side bars are secured to the disks by means of the screws 21, which pass through the pitman 20, the disks 17, and said side bars to hold them firmly together. A hand-bar 27 is secured between the side bars 25 to serve as a hand hold for the operator.

The operation of my invention may be described as follows: A long block or column of ice may be drawn through between the pins 14, and wherever it is desired to sever the ice the hand-lever 27 is depressed, thus bringing the pins 14 together on opposite sides of the ice and quickly severing it without the use of extraordinary power exerted upon the lever 27 and the pitmen and crank-disks which bring the cross-heads together simultaneously at opposite sides of the ice.

From the foregoing it will be obvious that my machine for severing ice is of comparatively simple construction, of few parts, and that the same may be quickly installed for use and is strong, durable, and efficient in use.

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

10 A machine for severing ice, comprising a platform or floor, vertically-disposed guideways thereon, the lower ends of which are located below the platform or floor line, an upper and a lower cross-head provided with a

series of alined pins and adapted to move between the guideways, means for vertically adjusting the upper cross-head, crank-disks, links connecting the cross-heads with the crank-disks, and an arm secured to the crank-disks to reciprocate the cross-heads to and from each other; substantially as described. 15 20

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

WELLINGTON O. HAY.

Witnesses:

B. B. CLARKE,  
C. S. MCKAGEN.