

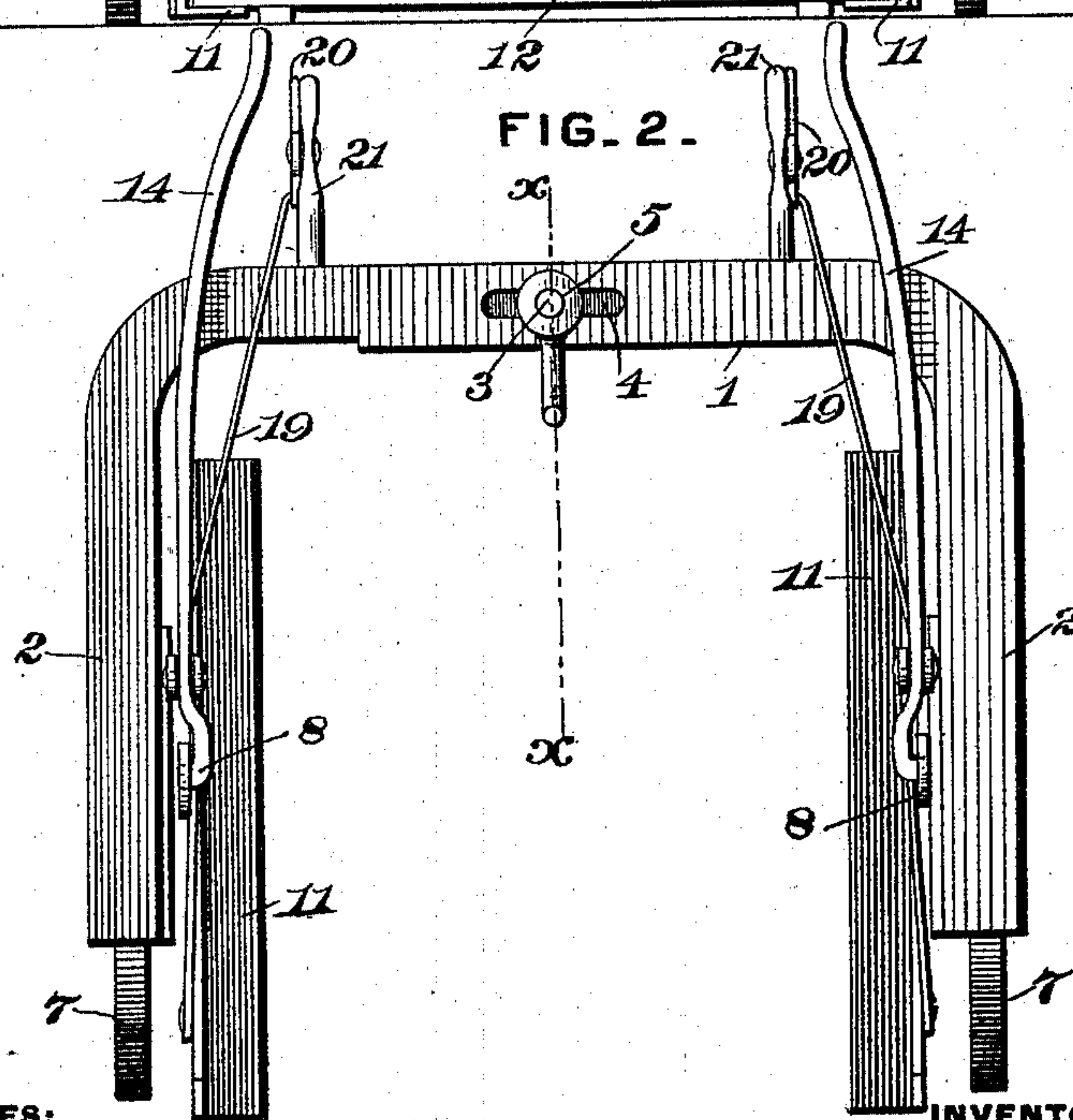
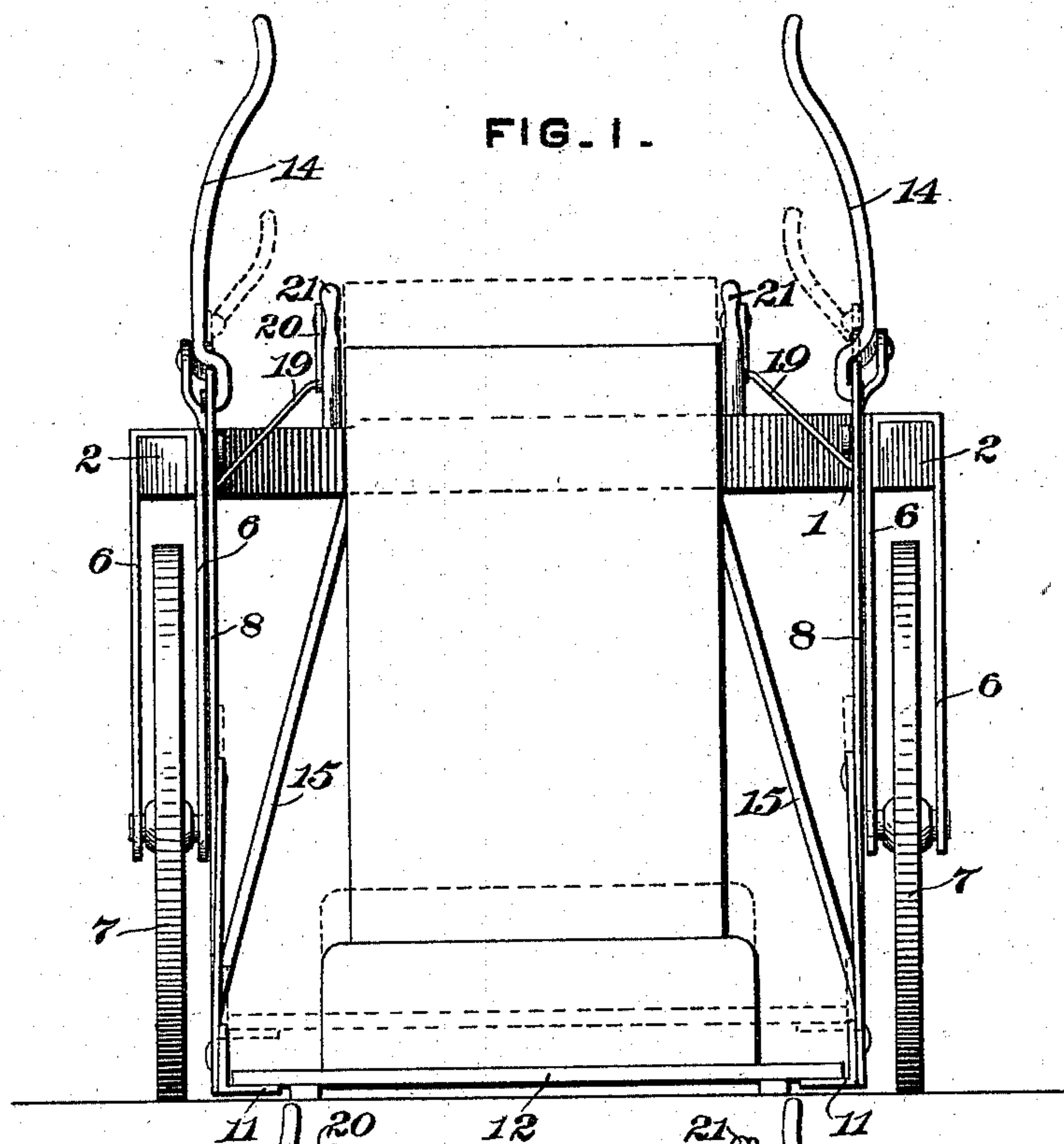
(No Model.)

2 Sheets—Sheet 1.

F. E. McELFRESH.
TRUCK FOR HANDLING SEWER PIPES.

No. 528,011.

Patented Oct. 23, 1894.



WITNESSES:

Danville S. Walcott
C. E. Hunt.

INVENTOR,

Francis E. McElfresh,
by George H. Christy
Att'y.

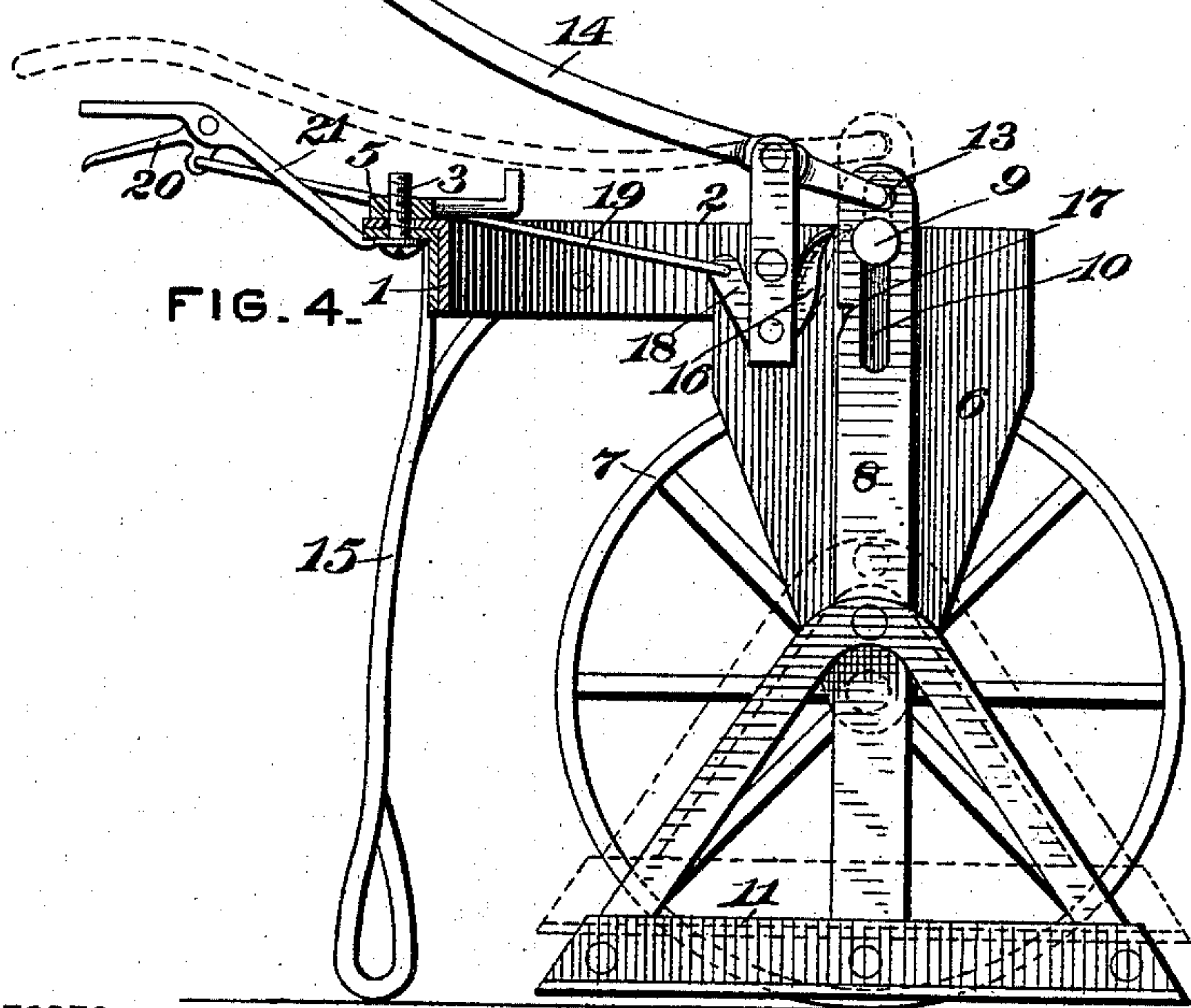
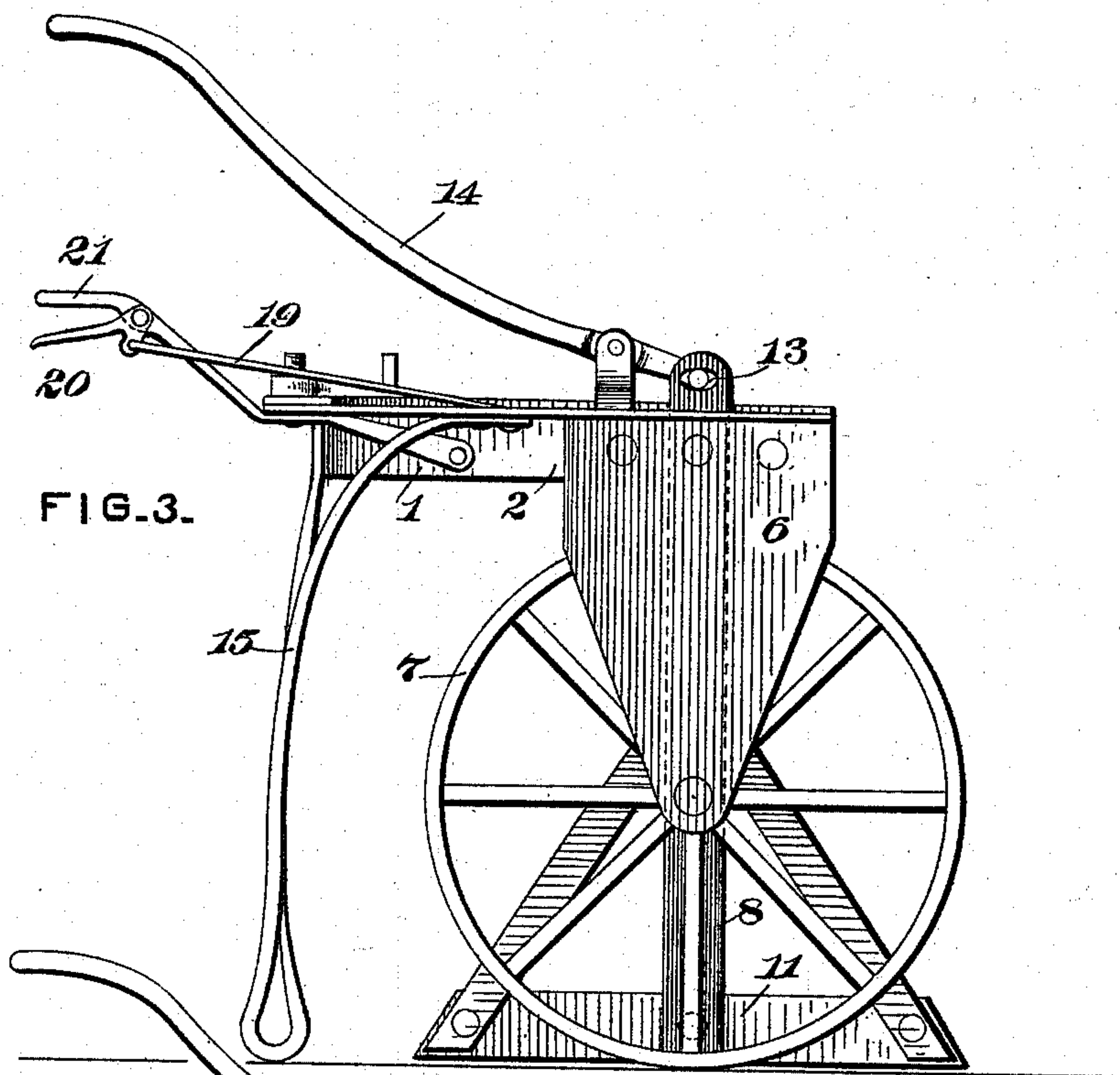
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2 Sheets—Sheet 2.

F. E. McELFRESH.
TRUCK FOR HANDLING SEWER PIPES.

No. 528,011.

Patented Oct. 23, 1894.



WITNESSES:

Danvers S. Wolcott
C. B. Hunt.

INVENTOR,

Francis E. McElfresh,
by George H. Christy
Att'y.

UNITED STATES PATENT OFFICE.

FRANCIS E. McELFRESH, OF NEW CUMBERLAND, PENNSYLVANIA, ASSIGNOR
TO THE STANDISH CLAY MANUFACTURING COMPANY, OF SAME PLACE,
AND PITTSBURG, PENNSYLVANIA.

TRUCK FOR HANDLING SEWER-PIPES.

SPECIFICATION forming part of Letters Patent No. 528,011, dated October 23, 1894.

Application filed September 6, 1893. Serial No. 484,911. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS E. McELFRESH, a citizen of the United States, residing at New Cumberland, in the county of Allegheny and State of Pennsylvania, have invented or discovered certain new and useful Improvements in Trucks for Sewer-Pipes, &c., of which improvements the following is a specification.

The invention described herein relates to certain improvements in trucks for transporting sewer pipe, &c., from place to place during the manufacture thereof, and has for its object a construction whereby the same truck can be readily adapted for carrying different sizes of pipe, and whereby the pipe having been raised, the hands of the workmen are free to push and guide the truck.

In general terms the invention consists in the construction and combination, substantially as hereinafter described and particularly claimed.

In the accompanying drawings forming a part of this specification, Figure 1 is a front elevation of my improved truck. Fig. 2 is a top plan view. Fig. 3 is a side elevation, and Fig. 4, a sectional elevation, the plane of section being indicated by the line x, x , Fig. 2.

In the practice of my invention, the U-shaped frame 1 having a straight or approximately straight back portion, is made in two parts or sections which are adapted to slide one over the other so as to increase or decrease the distance between the sides or arms 2 in accordance with the size of pipe to be transported. The two sections are held in any desired relation to each other by any suitable form of clamping device, such for example, as that shown consisting of a bolt 3 passing through slots 4 in the overlapping back portions and a nut 5, screwing onto the bolt and provided with a handle whereby the nut may be conveniently rotated. Two arms 6, preferably formed of plate metal, are secured by rivets or otherwise to opposite sides of both arms of the frame at or near their front ends. In the lower ends of these arms are formed bearings for the axles of the wheels 7. Vertical slides 8 are arranged on the inner arms 6 and are guided in their vertical movements

by pins 9, passing through slots 10 in the slides. Angle pieces 11 are securely fastened to the lower ends of the slides in such manner that two sides of the angle pieces will project in horizontally toward each other, so as to pass under opposite edges of the board 12 on which the pipes are placed when molded.

In the upper ends of the slides 8 are formed short horizontal slots 13 into which project the bent ends of the levers 14, which are pivoted on standards 15 secured on the side pieces of the frame, said levers projecting a short distance back of the frame, so as to be conveniently operated. The horizontal slots 13 permit of a swinging movement of the slides, so that the board 12 supported by the slides will always maintain a horizontal position, even when the frame is tipped so as to raise the supporting legs 15 from the ground in shifting the truck.

In order to hold the slides when raised, pawls 16 are pivoted to the frame in such relation to the slides as to engage notches 17 therein when raised. These pawls are provided with arms 18 which are connected by rods 19 to operating levers 20, pivoted to the handles 21 attached to the frame of the truck. The pawls 16 and their operating levers are so pivoted and connected together that their weight will throw the pawls toward the slides and cause them to automatically engage the notches, when the slides are raised.

As hereinbefore stated, the molded pipes are placed upon boards 12, whose dimensions are proportional to the diameters of the pipes, and are supported a short distance from the floor by suitable cleats. When it is desired to transfer these pipes from the molding floor to the drying room and, thence, to the kiln, the slides 8 are allowed to drop until the horizontal sides of the angle pieces are low enough to pass under the boards 12. The truck is then shifted until the sides of the angle pieces pass under the edges of the boards. The levers 14 are then pulled down, thereby raising the slides and board until the pawls engage the notches in the slides. The lever is then released and the rear end of the truck raised by the handles 21 until the legs 15 are clear

of the floor, when the truck can be moved to any desired place. By pulling up the levers 20, the pawls are withdrawn from the notches and the board with the pipe lowered to the
5 floor.

By sliding the overlapping back portions of the frame in or out, the distance between the sides can be made to suit any size of pipe made.

10 It will be readily understood that other devices than the horizontally projecting sides of the angle pieces may be applied to the slides for engaging the article to be moved, thereby increasing the range of use of my im-
15 proved truck.

I claim herein as my invention—

1. In a truck, the combination of a U-shaped frame provided with wheels, independent ver-
20 tically movable slides mounted on the sides of the frame and provided with means for engaging the article to be moved, and inde-

pendently operating catches for holding the slides when raised, substantially as set forth.

2. In a truck, the combination of a U-shaped frame provided with wheels, and having its 25 sides adjustable toward and from each other, and vertically movable slides provided with means for engaging the article to be moved, substantially as set forth.

3. In a truck, the combination of a U-shaped 30 frame provided with wheels, and vertically movable and horizontally swinging slides mounted on the sides of the frame and provided with means for engaging the article to be moved, substantially as set forth. 35

In testimony whereof I have hereunto set my hand.

FRANCIS E. McELFRESH.

Witnesses:

DARWIN S. WOLCOTT,
W. B. CORWIN.