W. McCADDIN & G. SUTHERLAND.

ADJUSTABLE SKID.

APPLICATION FILED APR. 8, 1908.

907,519.

Patented Dec. 22, 1908.

Fig. 1

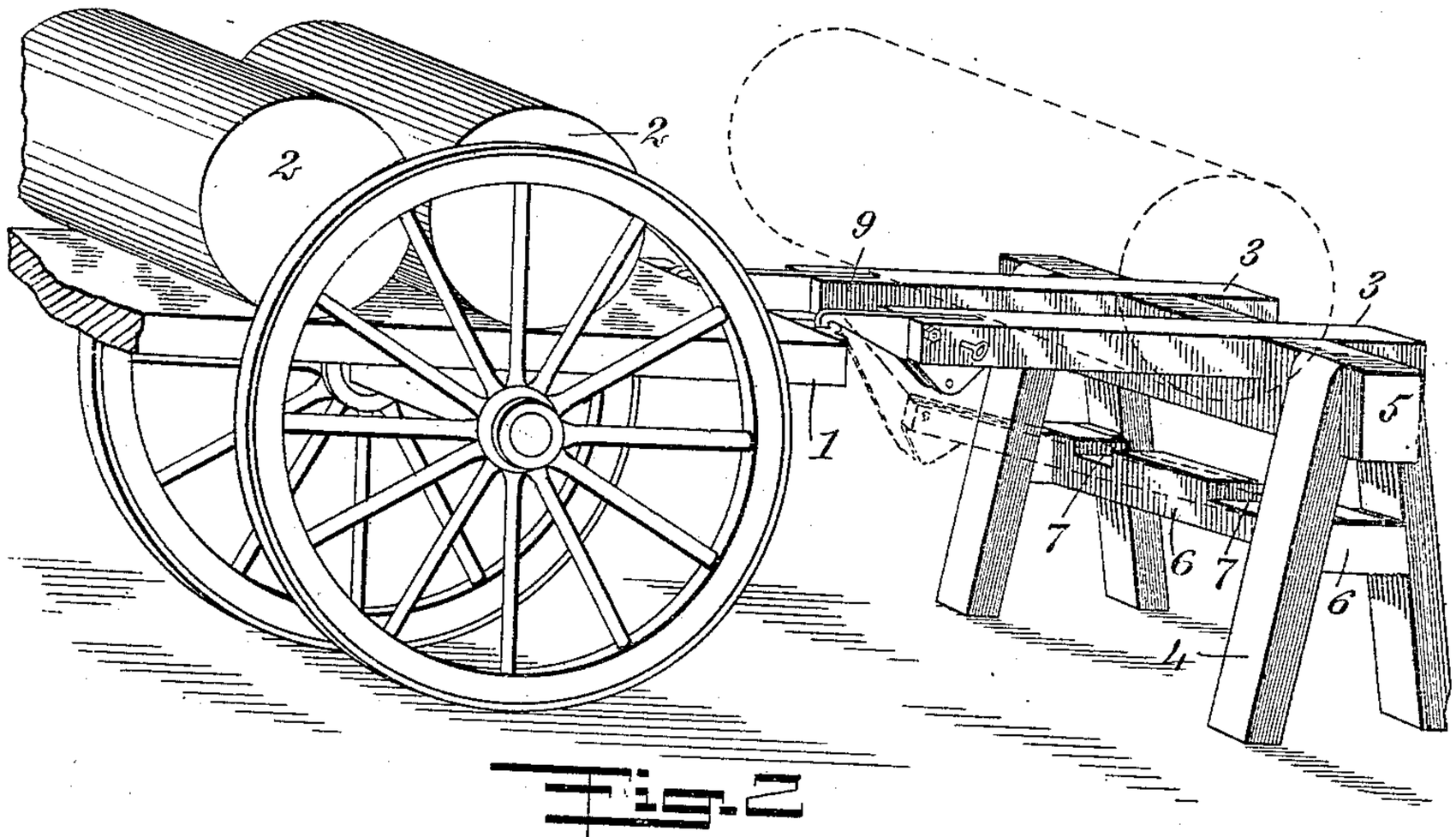


Fig. 2

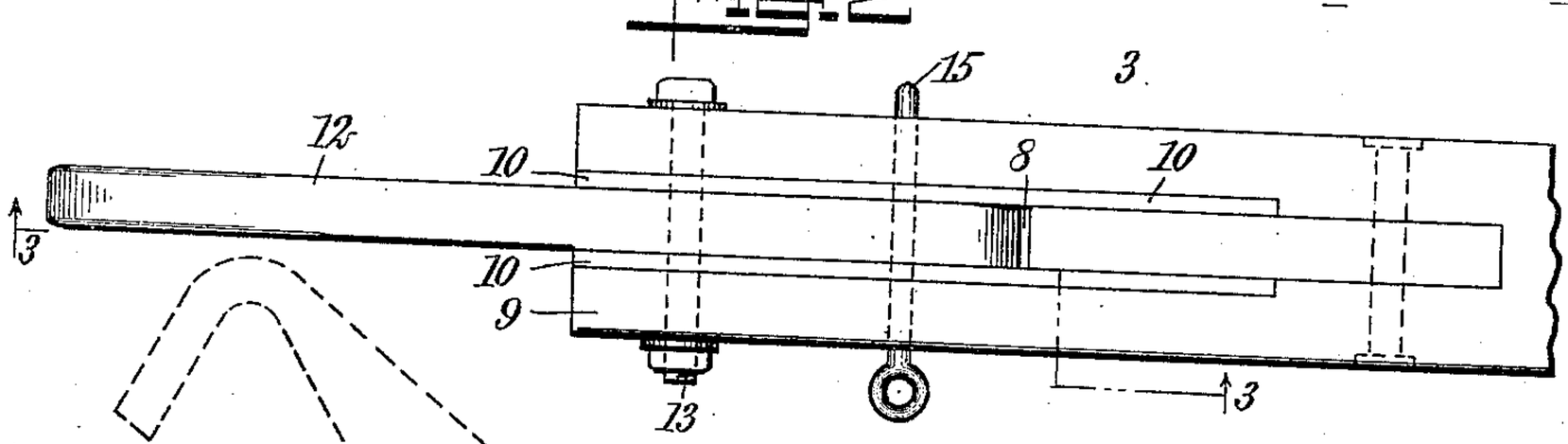
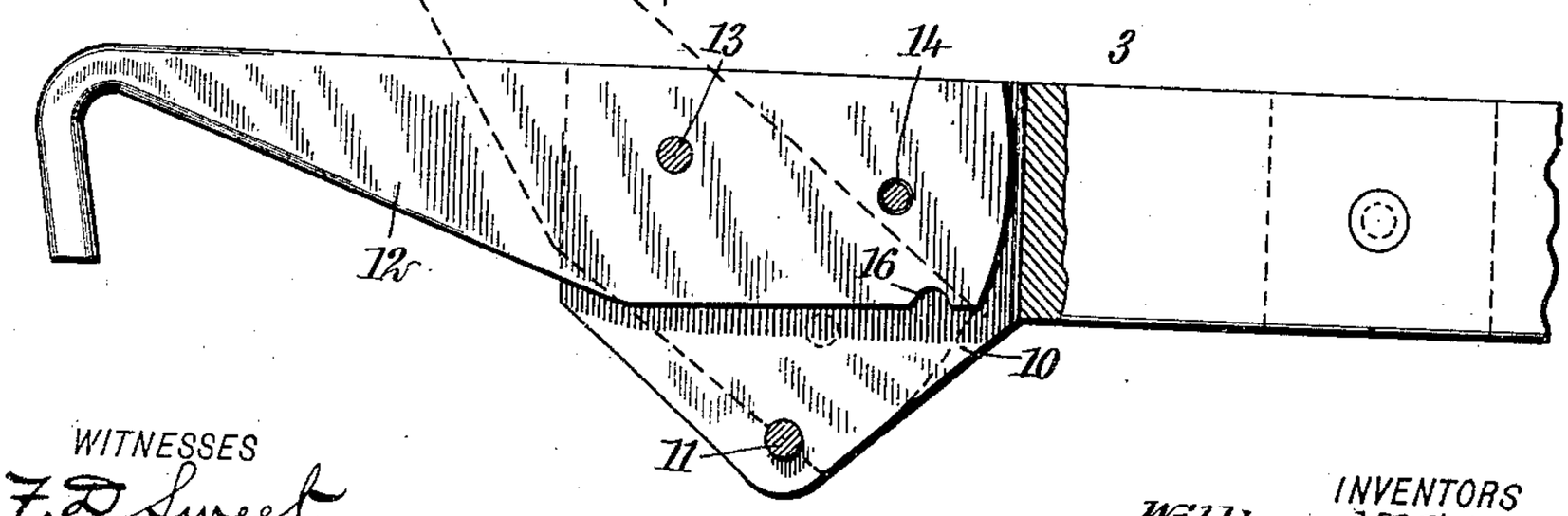


Fig. 3



WITNESSES

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UNITED STATES PATENT OFFICE.

WILLIAM McCADDIN AND GEORGE SUTHERLAND, OF NEW YORK, N. Y.

ADJUSTABLE SKID.

No. 907,519. Specification of Letters Patent. Patented Dec. 22, 1908.

Application filed April 8, 1908. Serial No. 425,934.

To all whom it may concern:

Be it known that we, WILLIAM McCADDIN, a citizen of the United States, and GEORGE SUTHERLAND, a subject of the King of Great Britain, and both residents of the city of New York, borough of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Adjustable Skid, of which the following is a full, clear, and exact description.

This invention relates to skids designed to be used in unloading heavy rolls of paper.

The material for news papers comes from the paper mill in rolls, the largest of which are about seventy-two inches in length, twenty-six inches in diameter, and weighing upward of from twelve hundred to thirteen hundred pounds. Because of their length it is necessary to up-end the rolls so that they may be carried in a substantially upright position on a truck through doorways and on elevators. These rolls are smooth on their surface and because of their shape and weight are quite difficult to handle, the more so because of the fact that hooks ordinarily used for loading and unloading cannot be used for this work.

In removing the rolls from a truck, the rolls are first placed horizontally on the truck and then rolled out onto skids and up-ended from the skids onto the side-walk. The larger rolls are of sufficient length when up-ended from the skid on a level with the platform of a truck to drop evenly onto the side-walk without injury to the roll, but when three-quarter rolls are used the drop from a skid on a level with a truck is considerable, and as the end of the roll falls to the side-walk it frequently becomes damaged on the end, which unfits the paper for the uses for which it is intended, thereby resulting in considerable damage and loss of paper.

This invention, therefore, has for its object to provide means adapted to permit rolls of paper of different length to be readily up-ended from a skid without damage or injury to the paper.

Other objects relating to the specific construction and special arrangement of the several parts will be understood from the accompanying drawings and following description, in which drawings like characters of reference indicate like parts throughout the views, and in which

Figure 1 is a perspective view of skids embodying our invention applied to a truck, and a horse supporting the outer ends thereof; Fig. 2 is a plan of the adjustable end of a skid shown in Fig. 1; and Fig. 3 is a sectional side elevation, on the line 3—3 of Fig. 2, of a skid shown in Fig. 2, indicating in dotted lines the position which may be assumed by the arm of the skid.

As illustrated in the drawings, 1 represents the platform of a truck carrying rolls of paper 2. Skids 3 are connected with the rear end of the platform of the truck and supported on their outer end on a horse 4. The horse is provided with an upper beam 5 and lower beam 6, both beams having recesses 7 adapted to receive the outer end of the skid. The inner end of each skid is provided with a slot or recess 8 making the end 9 of the skid bifurcated. Within the recess or slot 8 are arranged bearing plates 10 attached to the inner walls of the slotted end of the skid, these bearing plates projecting downward from the lower surface of the skids, as clearly shown in Fig. 3. The depending portion of these bearing plates is provided with stops 11 adapted to limit the movement of and support the inner end of an arm 12 provided on its forward end with a hook adapted to engage the platform of a truck and having its rear end arranged within the slot 8 of the skid, and pivotally secured thereby by means of a pin 13. The rear end of the arm 12 is provided with an aperture 14 adapted to receive a pin 15 which extends through the forked ends of the skid 3 and also through said arm to hold the arm in a fixed position, as shown in Figs. 2 and 3. The lower surface of the arm 12 is preferably cut away at 16 so as to form a socket adapted to receive the pin or stud 11 and furnish a firm bearing for the inner end of said arm.

When the device is in use and it is desired to unload long rolls of paper, the skids are arranged with their outer or rear end on the upper beam 5 of the horse, thereby bringing the upper surface of the skids on a level with the platform 1 of the truck. In such case the upper surface of the arm 12 of the skids extends in line with the upper surface of the skids themselves, as shown in Fig. 1. The long rolls of paper are then rolled on to the skids and from the skids they may be readily up-ended without injury. When it is desired to unload the shorter rolls, however, instead of allowing the rolls to fall from the height of the level of the platform of

the truck the rear ends of the skids are placed on the lower beam 6 of the horse, and the arms 12 of the skids are inclined to the body of the skid, as indicated by dotted lines in Figs. 1 and 3. When the skids are so arranged the short rolls may be readily up-ended without allowing the roll to drop any considerable distance to the side-walk. When the skids are arranged on a level with the truck, as shown in Fig. 1, the arm 12 is held in place by means of the pin 15, but when the arm is inclined relatively to the body of the skids, as shown in Fig. 3, the inner end of the arm bears against the stud 11 mounted in the bearing plates 10, which thereby holds the arm in its proper position relatively to the skids.

Having thus described our invention, what we claim as new and desire to secure by Letters Patent is:

1. A skid having a bifurcated end, bearing plates arranged within said end of the skid, and an arm pivotally mounted in the bifurcated end of said skid and provided with a hooked end adapted to engage the platform of a truck.

2. A skid provided with a beam, an arm adjustable on said beam and adapted to engage the end of a truck, and means for holding said arm in its adjusted position.

3. A skid comprising a beam, an arm having a hooked end to engage the end of a truck and pivotally adjustable on said beam to arrange the upper edge of said arm at an angle to the upper surface of said beam, and means for holding said arm in its adjusted position.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

WILLIAM McCADDIN.
GEORGE SUTHERLAND.

Witnesses:
PHILIP D. ROLLHAUS,
JOHN P. DAVIS.