Feb. 22, 1927. 1,618,257

C. H. YOUNG

SKID

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Fig. 1.

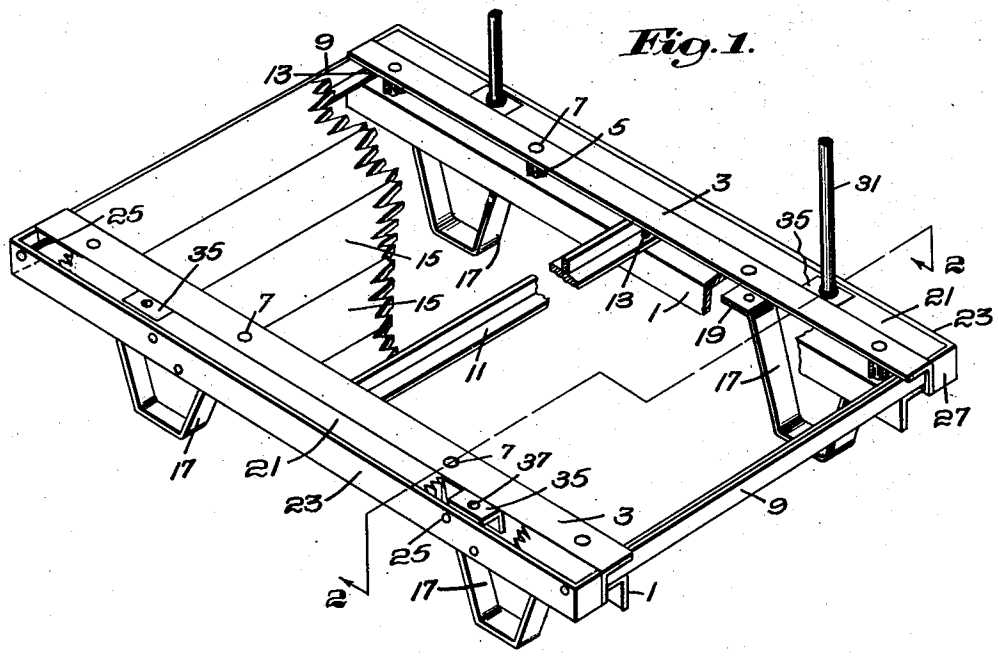


Fig. 2.

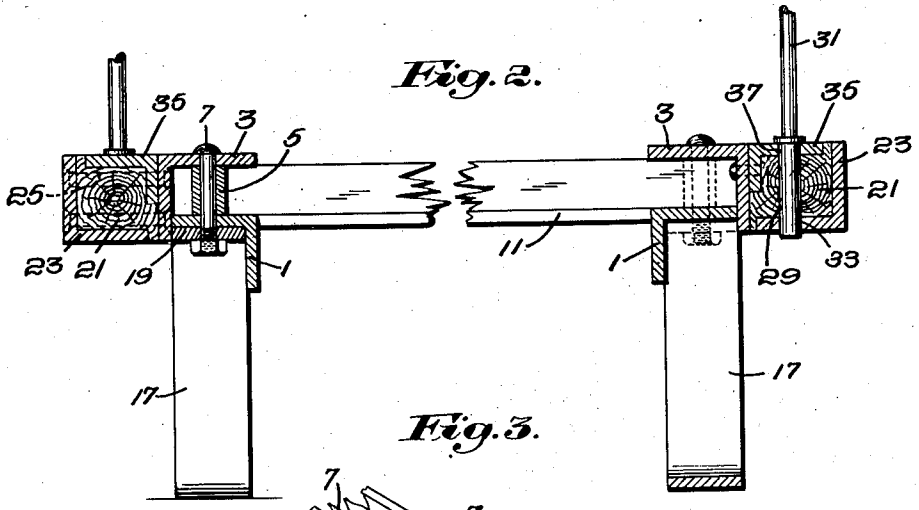
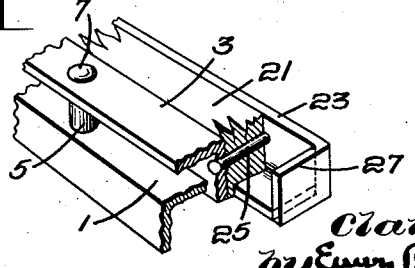


Fig. 3.



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UNITED STATES PATENT OFFICE.

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SKID.

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My invention relates to skids and particularly but not exclusively to that type known as "dead" skids.

My invention which has among its objects the provision of a skid of durable construction which may be fabricated and readily repaired with a minimum of expense and labor will be best understood from the following description when read in light of the accompanying drawings showing a specific embodiment of my invention selected for illustrative purposes, while the scope of my invention will be more particularly pointed out in the appended claims.

In the drawings:—

Fig. 1 shows a perspective of a skid constructed according to my invention with parts broken away;

Fig. 2 is a section on the line 2—2 of Fig. 1; and

Fig. 3 shows a detail.

Referring to the drawings and to the preferred embodiment of my invention I have shown a skid which at each side is provided with a longitudinally arranged girder, these girders supporting the flooring and the legs for the skid. Each girder as shown in the drawings comprises a pair of angle-irons 1 and 3, these angle-irons being arranged with one of their webs positioned horizontally, the horizontal web of the lower angle-iron being directed away from the center of the skid towards the vertical web of the upper angle-iron, and the horizontal web of the latter being directed towards the center of the skid. In this way the spaces between the horizontal webs of the pairs of angle-irons present channels opening towards the center of the skid. The angle-irons 1 and 3 are held in spaced relation by means of a plurality of tubular spacers which may conveniently take the form of short sections of pipe 5. As clearly indicated in the drawings the ends of the tubular spacers abut the opposed sides of the horizontal webs of the angle-irons 1 and 3 which webs are perforated to receive the bolts or other fastening members 7 which extend through the tubular spacers.

For holding the girders in spaced relation I provide a plurality of cross members herein exemplified by the angle-irons 9 and the T-iron 11, the angle-irons 9 being positioned at the ends of the skid and the T-iron at an intermediate portion, and if desired the T-iron may take the form of two angle-irons arranged back to back. The angle-irons 9 preferably are each arranged with one web positioned vertically and with their other web extending towards the center of the skid, while the T-iron as is clearly shown by the drawings is likewise arranged with one web positioned vertically. The ends of the angle-irons 9 and T-iron 11 are received in the spaces or channels between the horizontal webs of the angle-irons 1 and 3 and are riveted or otherwise secured to the angle-irons 1 as shown at 13.

The flooring for the skid as indicated by the drawings comprises the transversely arranged planks 15 the ends of which are received in spaces or channels between the horizontal webs of the angle-irons 1 and 3. The vertical webs of the angle-irons 9 act to protect the end planks and these webs together with the vertical web of the T-iron 11 act to space groups of planks and to hold the planks against movement longitudinally of the skid. By removing the bolts 7 the angle-irons 3 may be detached from the skid which permits easy renewal of planks requiring replacement.

It will be noted by the above described construction that the spacing of the girders is entirely independent of the flooring for the skid, and that therefore the planks 15 which from time to time need replacement do not have to be made with particular exactness. In fact these planks may and preferably do fit the framing loosely so as to cause the flooring to accommodate itself to the load. Further it will be noticed that the planks 15 may yield relatively to each other and to the girders when the skid is loaded without distorting or unduly straining the framing for the skid or its supports.

As herein shown the supports for the skid are in the form of bars 17 bent to a substantially U-shape and provided with flanges 19 which rest against the lower sides of the horizontal webs of the angle-irons 1. The bolts 7 hereinbefore referred to preferably pass through perforations in the flanges 17 and therefore act to hold the supports in assembled relation with the girders.

In the particular embodiment of my invention illustrated I have shown the skid provided with buffers or rails which as shown are carried by the angle-irons 3.

Each buffer comprises a strip 21 of comparatively resilient material, as for example wood, which preferably is faced on its outside surface with a metal strip, the latter in the present form of my invention being exemplified by the vertical web of the angle-iron 23. The strip 21 and angle-iron 23 are secured to and carried by the angle-iron 3 by means of bolts or other fastening members 25, and it will be noted that by this construction the buffers act to reinforce the angle-irons 3 and consequently in this sense form part of the girders. As indicated in Fig. 3 the lower web of the angle-iron 23 is cut away at the ends of the angle-iron to permit the end portion 27 of the vertical web of the angle-iron to be bent at right angles so as to protect the ends of the strips 21.

If desired the buffers 21 may be perforated as at 29 to provide sockets for the stakes 31. For the purpose of providing a durable socket the horizontal webs of the angle-irons 23 are provided with perforations 33 aligned with the perforations 29, the end of the stakes extending into or through the perforations 33. For the same reason adjacent the upper end of the perforations 29 I provide short sections of angle-irons 35 the vertical webs of which are riveted or otherwise secured to the vertical webs of the angle-irons 3 and the horizontal webs of which are provided with perforations 37 in alignment with perforations 29 as is clearly indicated in Fig. 2.

Although I have described for purposes of illustration one specific embodiment of my invention it is to be understood that I am not limited thereby to its particular mechanical details, but that within the scope of my invention wide deviations may be made therefrom without departing from the spirit of my invention.

Claims:

1. A skid having in combination, a floor support comprising a pair of spaced longitudinally arranged superimposed members at each side of said skid, floor members having their ends between said superimposed members, and means independent of said floor members for securing said pairs of members in spaced relation and the members of each pair in spaced relation, said means permitting the upper of said spaced members to be detached from the support for removal of the floor members while holding the lower of said members in spaced relation.

2. A skid having in combination, a pair of substantially horizontal angle-irons at each side of said skid, said angle-irons being in spaced relation with a web of one angle-iron of each pair above and parallel to a web of the other angle-iron of the same pair, floor members inserted between said webs, cross-members effective for preventing movement of said floor members longitudinally of said skid, and means other than said floor members for securing the four angle-irons in spaced relation and permitting detachment from the skid of the upper angle-irons of both pairs for removal of the floor members while securing the lower angle-irons of said pairs in spaced relation.

3. A skid having in combination, a pair of superimposed angle-irons at each side of said skid, the upper angle-iron having one of its webs horizontally disposed and directed towards the center of said skid, the lower angle-iron having one of its webs horizontally disposed and directed away from the center of said skid and abutting the inner side of the vertical web of the upper angle-iron near the lower end of said vertical web, supports for said skid secured to the under sides of the horizontal webs of the lower angle-irons, cross members carried by the horizontal webs of said lower angle-irons for securing said lower angle-irons in spaced relation, means for securing said angle-irons in vertically spaced relation and permitting removal of the upper of said superimposed angle-irons while the lower angle-irons are secured in spaced relation, floor members carried in the spaces between said horizontal webs, and means for preventing movement of said floor members longitudinally of said skid.

4. A skid having, in combination, a pair of superimposed angle-irons at each side of the skid, means for securing said angle-irons in spaced relation with a web of each horizontally disposed and permitting removal of the upper angle-iron of each pair while securing the lower angle-irons in spaced relation, the vertical webs of the upper angle-irons being disposed on the sides of said angle-irons away from the center of the skid, a stake-holding lateral extension for said skid secured to the outer face of the vertical web of one of said upper angle-irons, legs for said skid carried by said lower angle-irons, and floor members inserted in the spaces between said horizontal webs.

5. A skid having in combination a pair of longitudinally arranged superimposed side members at each side of said skid, cross members, connecting the opposite pairs of side members and holding said opposite pairs in spaced relation, said cross members presenting vertical and horizontal webs, floor boards transversely arranged relatively to said skid and having their ends in the spaces between said members at the sides of said skid, some of said floor boards overlying the horizontal webs of said cross members, whereby the floor is strengthened by said cross members.

6. A skid having in combination, a pair of substantially horizontal angle-irons at each side of the skid, said angle-irons being in spaced relation with a web of one angle-

iron of each pair in a horizontal plane above and parallel to a web of the other angle-iron of the same pair, the upper angle-iron of each pair having a downwardly directed web at that side of said angle-iron which is toward the side of the skid, floor members having their ends between the horizontal parallel webs of said angle-irons, means independent of said floor members for securing the four angle-irons in spaced relation and permitting the upper of said spaced angle-irons to be detached from the skid while securing the lower angle-irons in spaced relation.

In testimony whereof, I have signed my name to this specification.

CLARENCE H. YOUNG.