H. A. SMITH.

STONE OR FEED BOAT.

APPLICATION FILED DEC. 9, 1914.

1,196,818. Patented Sept. 5, 1916.

Fig. 1.

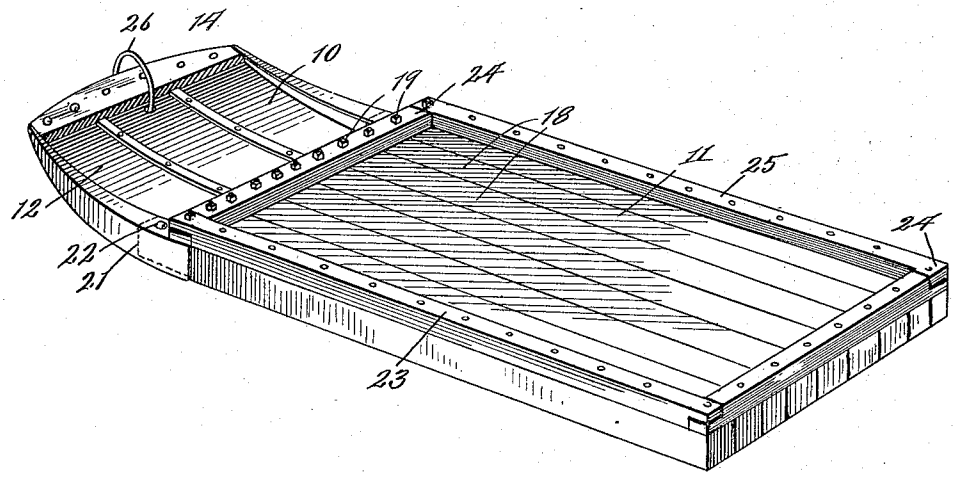


Fig. 2.

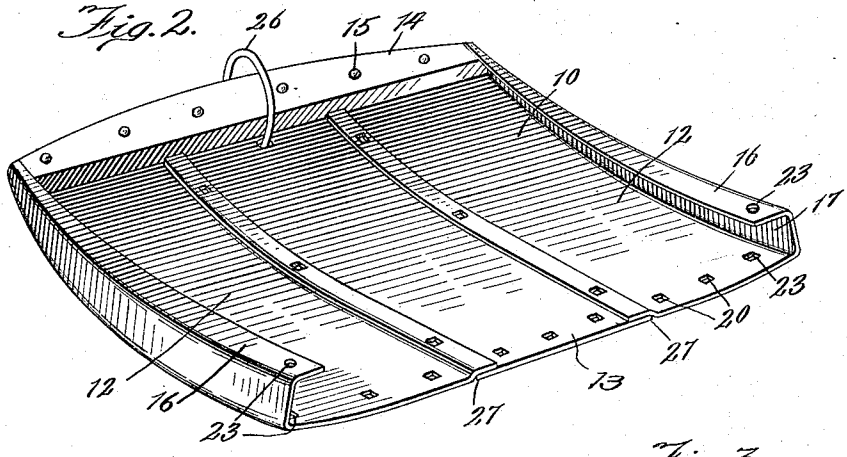
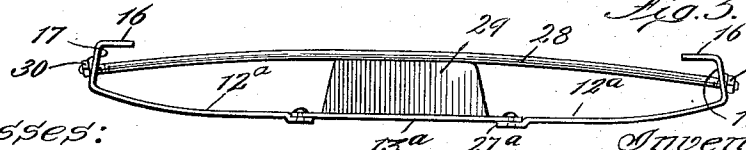


Fig. 3.



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THE NORRIS PETERS CO., PHOTO-LITHO. WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

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STONE OR FEED BOAT.

1,196,818. Specification of Letters Patent. Patented Sept. 5, 1916.

Application filed December 9, 1914. Serial No. 876,255.

To all whom it may concern:

Be it known that I, HENRY ADALBERT SMITH, a citizen of the United States, residing at Elgin, in the county of Kane and State of Illinois, have invented new and useful Improvements in Stone or Feed Boats, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawing, forming a part of this specification.

My invention relates to stone or feed boats.

One of the objects of my invention is to provide a front portion or nose for a stone or feed boat which is made in sections so that it may be adapted to fit different sizes of boats.

A further object of my invention is to form the nose or prow so that it may be easily and firmly secured to the forward end of the body portion of a stone or feed boat.

Further objects of my invention will appear from the detailed description to follow.

In the drawing, in which I have illustrated one embodiment of my invention, Figure 1 is a perspective view of a stone or feed boat showing the manner in which the improved nose is secured thereto; and Fig. 2 is a perspective view of a sheet or plate metal nose for the feed boat; and Fig. 3 is a rear view of a modified form of a nose which may be used with light sheet metal.

Referring now to the drawing in detail, reference character 10 indicates in general the front portion or nose of the boat, and reference character 11 indicates in general the body portion. The nose comprises right hand and left hand side sections 12, a middle section 13, a cross bar 14 forming a draft bar being secured to the front ends of said sections. The sections and bar may be secured together by means of rivets or bolts 15. The outer edges of the side sections 12 are turned upwardly and inwardly as at 16 forming channels 17 in which the outer timbers of the body 11 of the boat are secured. The body 11 comprises longitudinally extending timbers 18 which are secured to the nose 10 by means of bolts 19 extending through openings in the timbers and through holes 20 in the nose. The outer timbers 18 of the body of the boat extend forwardly into the channels 17 and are secured in place therein by means of bolts 22 extending through the timbers and through openings 23 in the sides of the channels. The body of the boat is provided with cross rails 24 at its front and rear ends and with side rails 25, but I do not confine myself to them in either case. A link or clevis 26 is secured to the middle section forming a draft attachment. The inner edges of the side sections 12 are off-set upwardly as at 27 where they engage the middle section 13 so that the lower faces of the sections 12 and 13 are flush with each other.

In the modification of Fig. 3, the side sections 12^a are off-set downwardly as at 27^a where they engage the middle section 13^a, and the construction is strengthened by means of a truss rod 28 which extends across the nose or prow, through openings in the upturned edges 16 and rests on a bearing block 29, which is supported by the middle section 13^a. Nuts 30 are provided for adjusting the tension of the truss rod. With this construction, lighter material may be used for the sections 12^a and 13^a.

It will be noted that the nose of the stone or feed boat being composed of sections can be shipped knocked down, and as unfinished material, and that the sections can be secured together by merely riveting or bolting them together. By using the middle section 13 of different widths the nose can be accommodated to body portions of different widths.

The entire device is so simple in construction that a completed implement can be built up by any one of ordinary intelligence, without special mechanical skill.

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

1. A nose for stone or feed boats including two formed metal right and left side sections and a formed metal middle section, said sections being provided with bolt holes at their rear edges whereby they may be attached to a body of suitably designed timber, and provided with holes in their adjacent edges whereby they may be bolted or riveted together, the forward ends of said sections being curved upwardly, and a draft bar secured to and across said forward ends.

2. A nose for stone or feed boats including two formed metal right and left side sections and a formed metal middle section, said sections being provided with bolt holes at their rear edges whereby they may be attached to the body of a stone or feed boat,

and provided with holes in their adjacent edges whereby they may be bolted or riveted together, the forward ends of said sections being curved upwardly, the outer edges of the side sections being turned upwardly and inwardly to form channels in which the side timbers of the body of the boat may fit, and a draft bar secured to and across said forward ends.

3. A nose for stone or feed boats including two formed metal right and left side sections and a formed metal middle section, said sections being provided with bolt holes at their rear edges whereby they may be attached to the body of a stone or feed boat, and provided with holes in their adjacent edges whereby they may be bolted or riveted together, the forward ends of said sections being curved upwardly to permit its sliding over uneven surfaces or obstructions, the inner edges of the side sections being off-set upwardly or downwardly in case of light material being used where they connect with the middle section whereby the lower faces of the sections are flush, and a draft bar secured to said forward ends.

4. A stone or feed boat comprising a nose having an upturned forward end including formed wrought metal of suitable thickness in three sections having upwardly and inwardly turned outer edges forming channels, a draft bar secured to said sections and a body portion having side timbers fitting and secured in said channels.

In witness whereof, I have hereunto subscribed my name in the presence of two witnesses.

HENRY ADALBERT SMITH.

Witnesses:
J. C. BOHN,
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."