

(No Model.)

W. H. MORRISON.  
LOGGING SLED.

No. 580,883.

Patented Apr. 20, 1897.

FIG. 1.

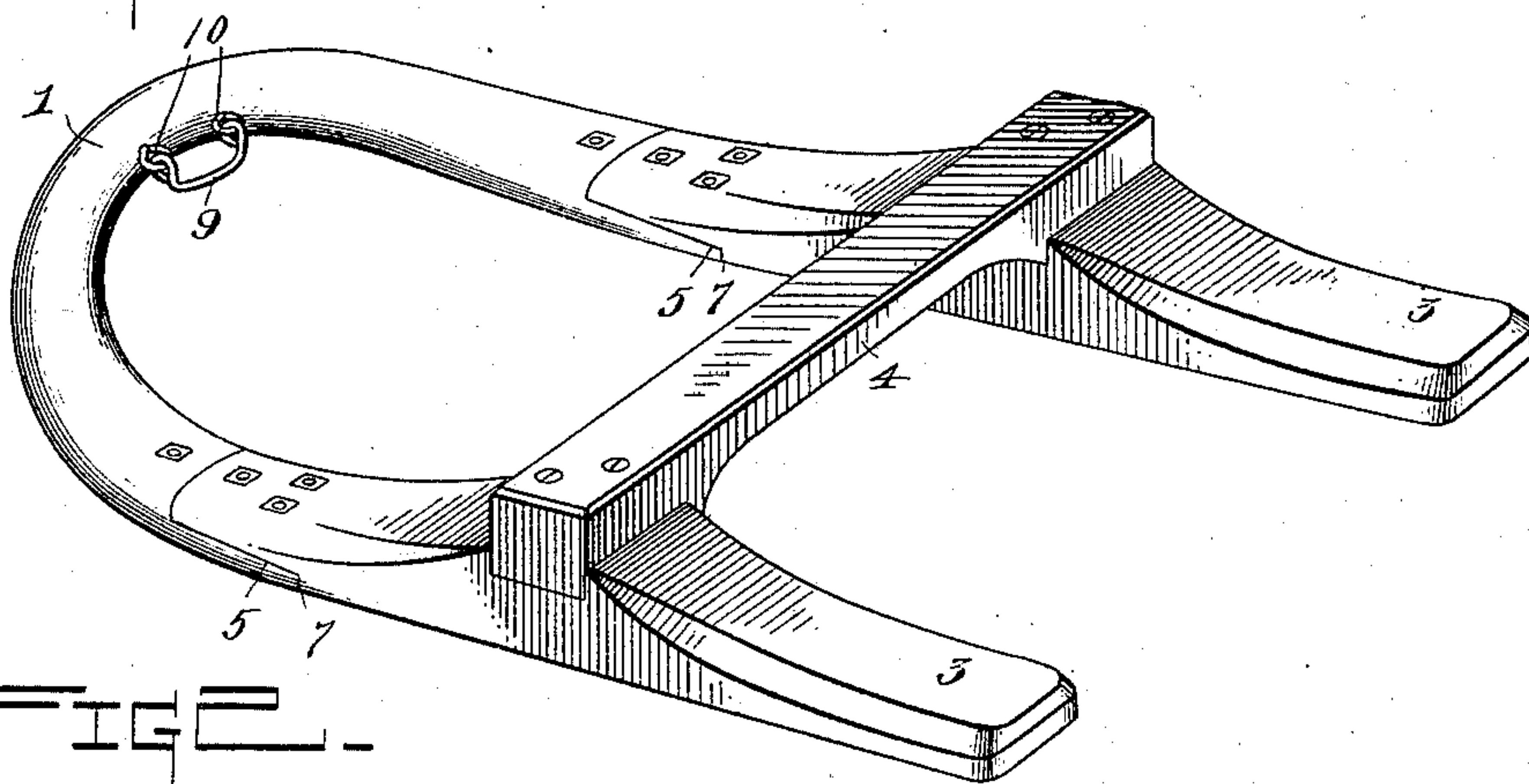


FIG. 2.

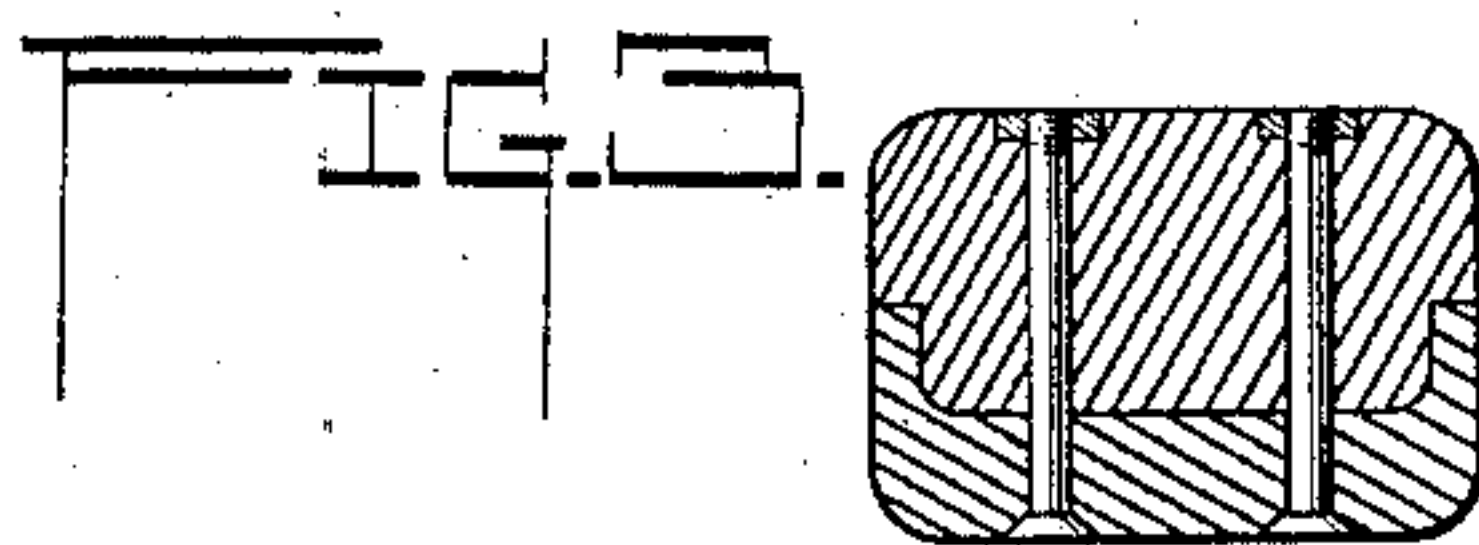
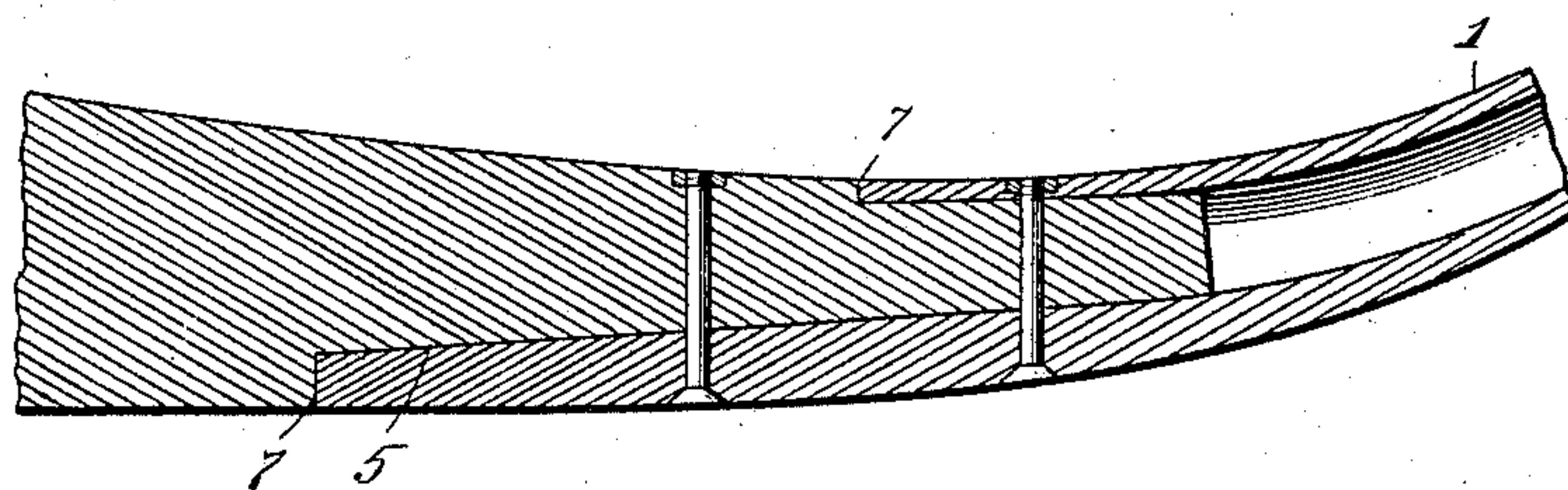


FIG. 4.

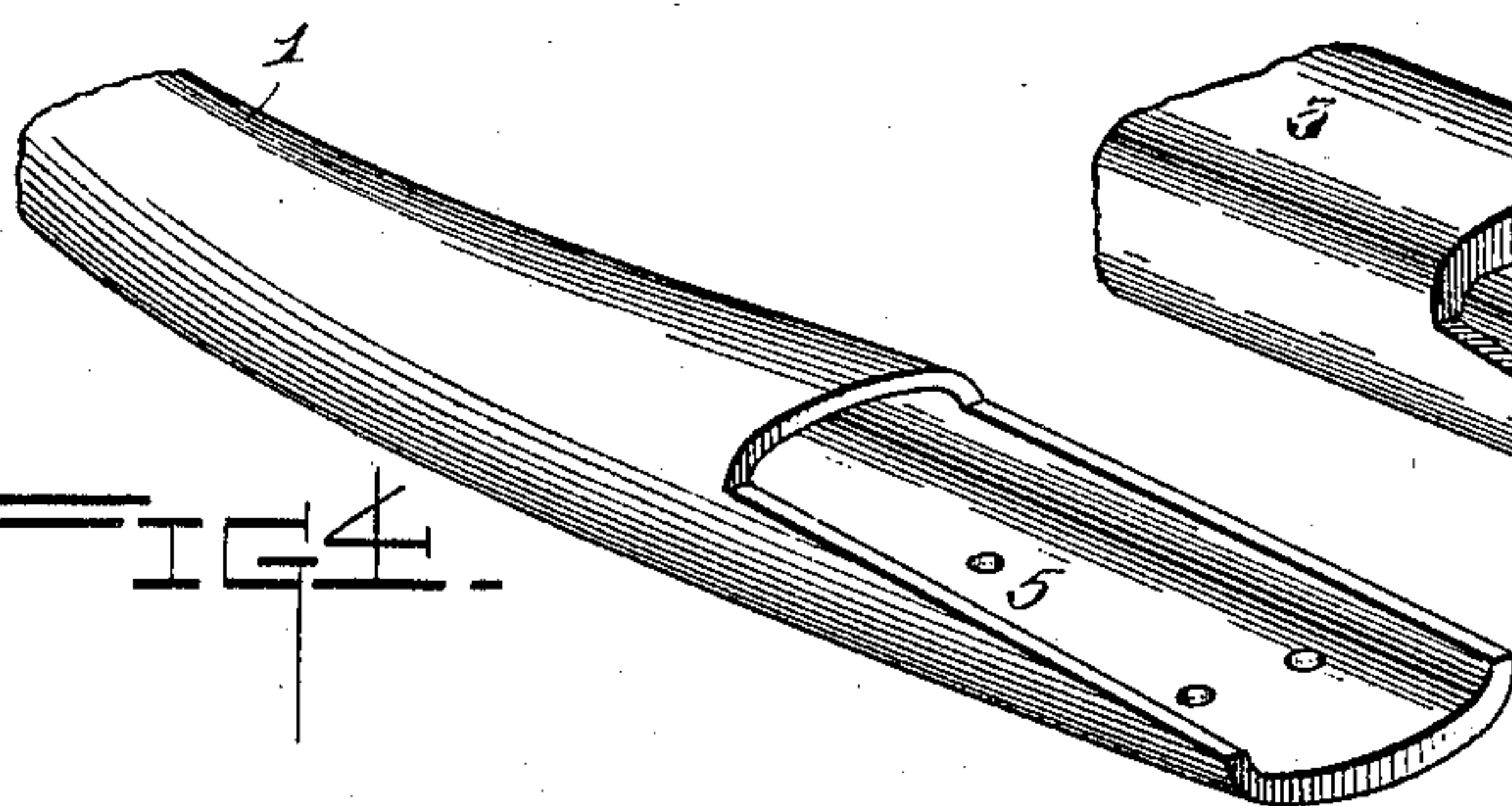
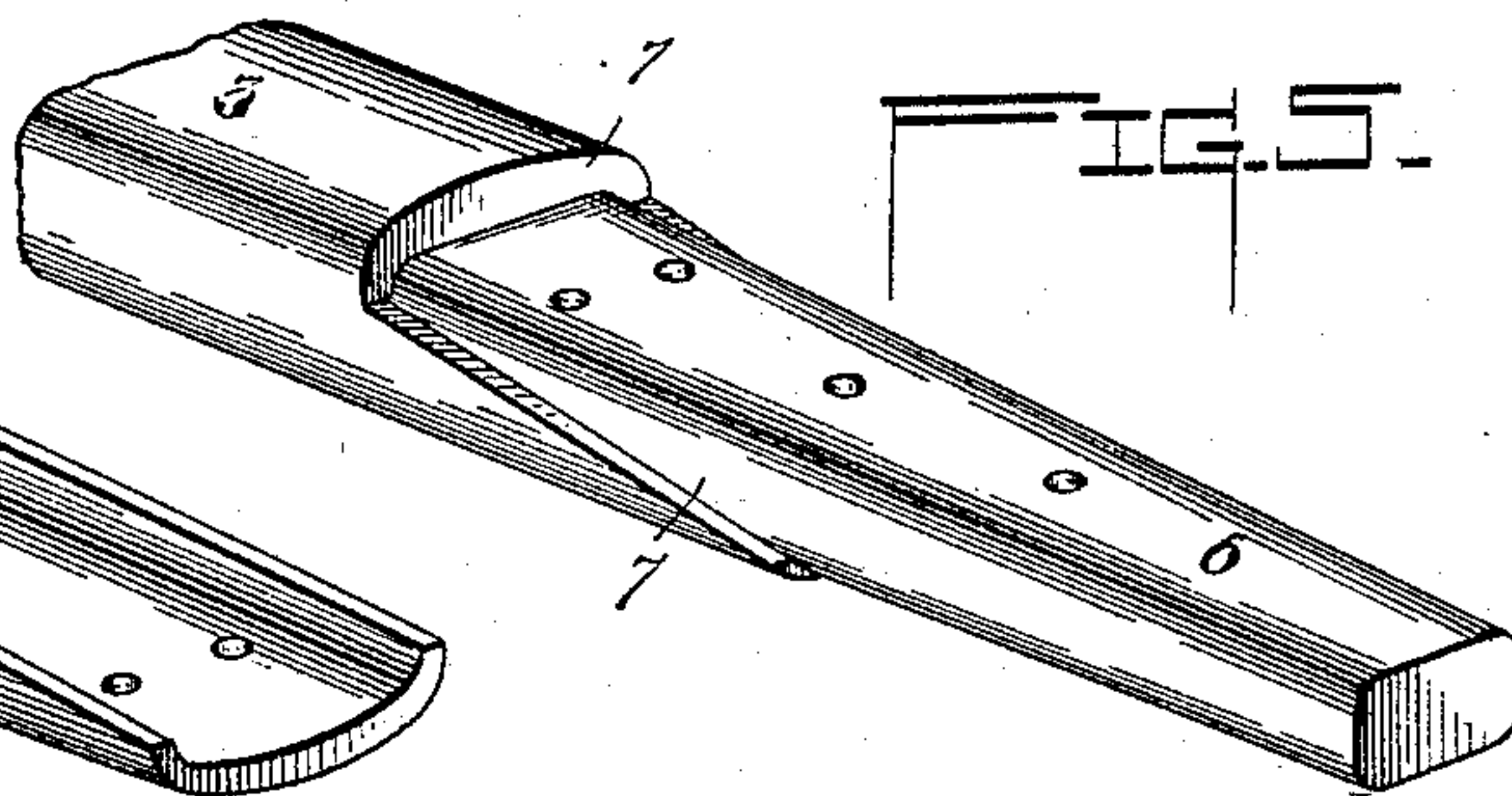


FIG. 5.



Inventor

William H. Morrison.

Witnesses

W. J. LaVau.  
H. J. Riley

By his Attorneys.

C. A. Snow & Co.



# UNITED STATES PATENT OFFICE.

WILLIAM H. MORRISON, OF EAU CLAIRE, WISCONSIN.

## LOGGING-SLED.

SPECIFICATION forming part of Letters Patent No. 580,883, dated April 20, 1897.

Application filed September 16, 1896. Serial No. 606,054. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM H. MORRISON, a citizen of the United States, residing at Eau Claire, in the county of Eau Claire and State of Wisconsin, have invented a new and useful Logging-Sled, of which the following is a specification.

The invention relates to improvements in logging-sleds.

10 The object of the present invention is to improve the construction of logging-sleds, more especially the joint or connection between the bow and the runners, and to provide a joint which will be strong and durable and enable the parts to be readily assembled and which will prevent a wooden runner from splitting.

20 The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claim hereto appended.

25 In the drawings, Figure 1 is a perspective view of a logging-sled constructed in accordance with this invention. Fig. 2 is an enlarged sectional detail view taken longitudinally of the joint at one side of the sled. Fig. 3 is a similar view taken transversely of the joint. Fig. 4 is an enlarged detail view of one end of the bow. Fig. 5 is a similar view of one end of one of the runners, showing the lower face thereof.

35 Like numerals of reference designate corresponding parts in all the figures of the drawings.

40 1 designates a logging-sled bow constructed of tubular metal and slightly flattened and tapering from the front and center to the ends, and the front of the bow is curved upward slightly, as shown, to enable it to clear readily the surface over which the sled may travel. The bow is secured to the front end of wooden runners 3, which are connected by a centrally-arranged transverse bar 4. Each end of the tubular metal of the bow is cut away at the upper face to provide a lower substantially cylindrical extension 5, and each runner is provided at its front end with a reduced portion forming a tongue 6, which fits within the tubular bow in advance of the extension 5. The lower face of the runner is recessed

at 7 to receive the extension 5, which has its outer face flush with the adjacent portion of the runner. The sides of the extension 5 taper toward their rear ends, and the sides of the runner are correspondingly recessed.

The side edges of the extension 5 are inclined and the transverse edges at the inner and outer terminals thereof are vertical. The runner is provided at the sides of the tongue 6 with inclined shoulders to fit against the inclined edges of the extension 5, and it is provided at the terminals of the inclined shoulders with vertical transverse shoulders located at the upper and lower faces of the runner.

The bow and the runner are secured together by vertical bolts passing through registering perforations of the parts and having their heads countersunk in the lower faces of the bow and provided at the upper faces of the bow and the runner with nuts. By this construction the bow is firmly secured to the runners, which are prevented from splitting at the joint, and the parts are readily assembled.

The bow is provided at the inner side of its front portion with a swinging clevis 9, having eyes at its ends, which are linked into eye-bolts 10 of the latter and have their shanks secured to the bow. The clevis is adapted to receive a draft-chain and is arranged out of the way to prevent it from coming in contact with the log and being broken.

It will be seen that the joint between the bow and the runners is simple, strong, and durable; that it enables the parts to be readily assembled, and that it will prevent a wooden runner from splitting.

What I claim is—

90 In a logging-sled, the combination of a bow constructed of tubular metal and cut away at the upper faces of its ends forming extensions 5 having inclined side edges and vertical transverse edges, runners having their front ends reduced to form tapering tongues and provided with inclined side shoulders to fit against the inclined edges of the extension 5 and having vertical transverse shoulders located at the terminals of the inclined shoulders and disposed at the upper and lower faces of the runners to fit against the trans-

verse edges of the bow, said tongues being adapted to fit within the bow and project beyond the extensions 5, the outer faces of the bow and the runners being flush and devoid  
5 of any exterior shoulders, and vertical bolts connecting the runners and the bow and having countersunk heads and nuts, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in 10 the presence of two witnesses.

WILLIAM H. MORRISON.

Witnesses:

HENRY MCBAIN,  
J. F. ELLIS.