

M. J. WOZNACK.
TOOTH FOR EXCAVATORS OR THE LIKE.
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1,011,547.

Patented Dec. 12, 1911.

Fig. 1.

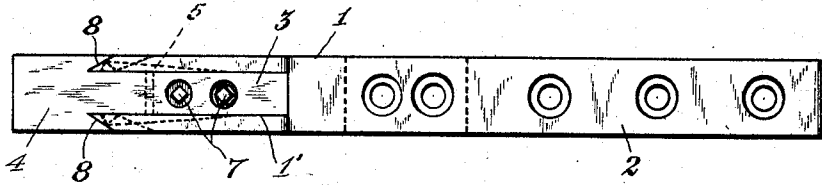


Fig. 2.

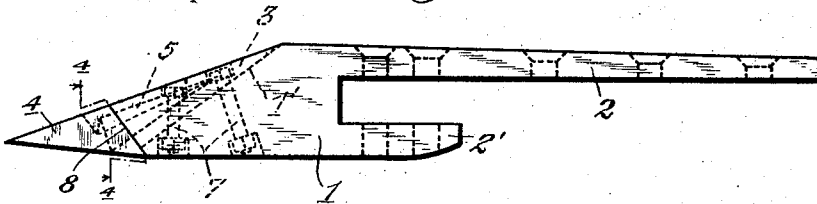


Fig. 3.

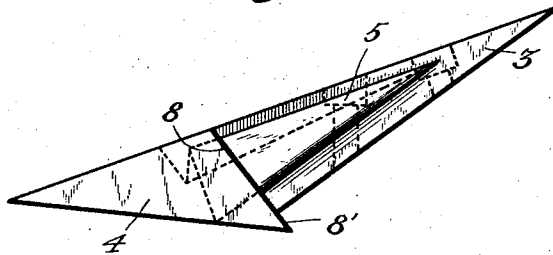
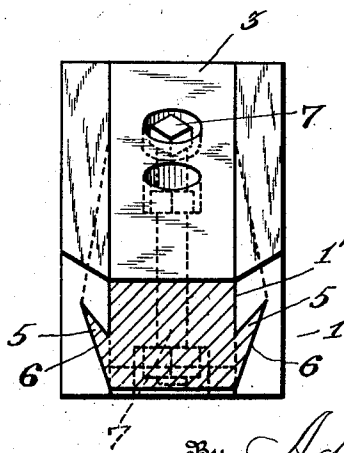


Fig. 4.



Witnesses

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TOOTH FOR EXCAVATORS OR THE LIKE.

1,011,547.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, MICHEL J. WOZNACK, a citizen of the United States of America, and a resident of the city of Seattle, in the county of King and State of Washington, have invented certain new and useful Improvements in Teeth for Excavators or the Like, of which the following is a specification.

My invention relates to teeth for steam excavators, dredgers and like machines, and has for a primary object to provide a construction wherein the removable point can be firmly held and spreading of the side walls of its seat prevented.

Other objects will be set forth as my description progresses and those features of construction, arrangements and combinations of parts on which I desire protection, succinctly defined in my annexed claims.

Referring to the accompanying drawing wherein like numerals of reference indicate like parts throughout: Figure 1 is a top plan of a tooth constructed in accordance with my invention. Fig. 2 is a side elevation thereof. Fig. 3 is an elevation of the point removed, and Fig. 4 is a vertical cross sectional view taken on line 4—4 of Fig. 2.

Reference numeral 1 indicates the body of the tooth whose upper face is inclined upwardly in a rearward direction and formed with a seat 1' for reception of the shank 3 of point 4. At its rear portion, body 1 is provided with the usual arms 2 and 2', spaced to receive the front edge portion of the shovel or scoop therebetween.

The bottom wall of seat 1' is inclined downwardly in a forward direction, by which construction the greatest depth of the seat occurs at its mouth, this being desirable inasmuch as shank 3, which corresponds thereto with respect to this tapering feature, must be particularly strong at its forward end portion on which point 4 is provided, as will be apparent.

Reference numeral 5 indicates longitudinal side extensions on shank 3, these extending outwardly in an upward direction for interlocking engagement in correspondingly shaped grooves 6, provided in the side walls of seat 1'. These extensions 5 and grooves 6 are also tapered both longitudinally and laterally. By this construction, when shank 3 is positioned in seat 1', extensions 5 will be wedged tightly in grooves 6.

Should point 4 strike heavily upon the ground during lowering of the shovel, the upper inclined walls or faces of extensions 5 will act in conjunction with the abutting upper faces of grooves 6 to exert an inward pressure on the side walls of seat 1', and thereby hold the same against spreading.

Reference numeral 7 indicates securing bolts which are passed through suitable apertures provided in shank 3 and body 1, as shown. Point 4 projects below and to the sides of shank 3, thereby providing shoulders, as 8, 8', which normally abut the adjacent end of body 1 about the seat 1' thereof.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent of the United States of America, is:—

1. A tooth of the character described comprising a body formed in one face with a longitudinal seat, the side walls of said body-seat being formed with grooves extending outwardly at an acute angle thereto, a point having a shank engaged in the seat of said body, and side extensions on the shank of said point fitting in the grooves of the seat of said body.

2. A tooth of the character described comprising a body formed in one face with a longitudinal seat, the side walls of said body-seat being formed with grooves extending outwardly at an acute angle thereto and tapered in the direction of their length, a point having a shank engaged in the seat of said body, and side extensions on the shank of said point fitting in the grooves of the seat of said body.

3. A tooth of the character described comprising a body formed in one face with a longitudinal seat, the side walls of the seat of said body being formed with grooves extending outwardly at an acute angle thereto, and tapered both laterally and longitudinally, a point having a shank engaged in the seat of said body, and side extensions on the shank of said point fitting in the grooves of the seat of said body and conforming thereto in external form.

4. A tooth of the character described comprising a body formed in its upper face with a longitudinal seat which decreases in depth rearwardly, the side walls of the seat of said body being formed with grooves whose upper side walls are inclined outwardly in an upward direction, a point hav-

ing a rearwardly extending tapered shank
engaged in the seat of said body, and side
extensions on the shank of said tooth en-
gaged in the side grooves of said body-seat
5 and having inclined upper side faces for in-
terlocking engagement with the adjacent
seat walls.

Signed at Seattle, Washington this 14
day of July, 1911.

MICHEL J. WOZNACK.

Witnesses:

ARLITA ADAMS,
A. G. BOOTH.

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