(No Model.)

T. N. WARD & M. CRAHEN.

TRACK AND WHEEL GAGE.

No. 556,790. Patented Mar. 24, 1896.

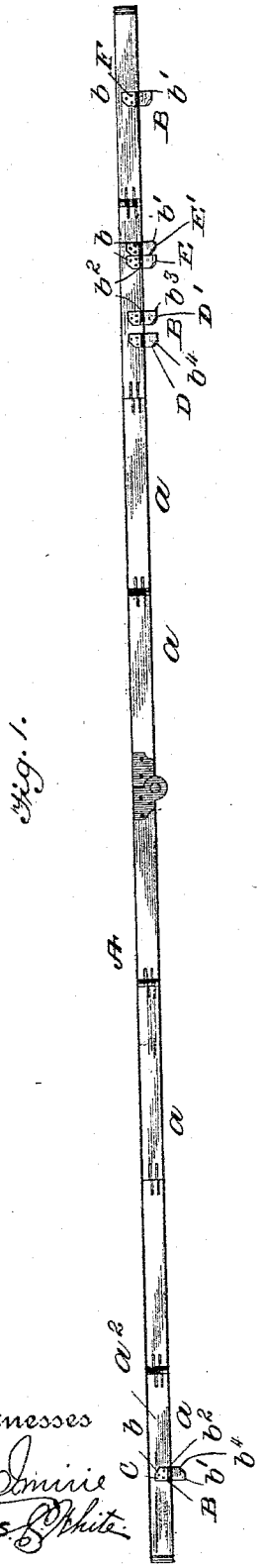

Fig. 1.

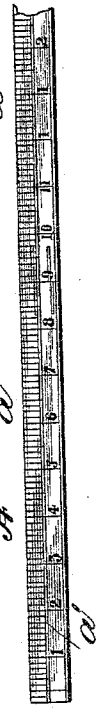

Fig. 2.

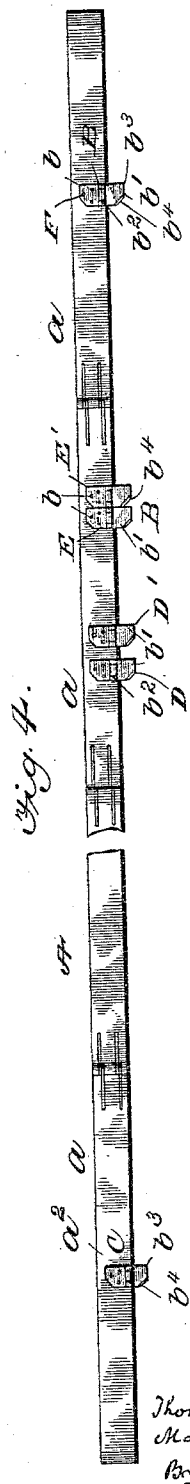

Fig. 4.

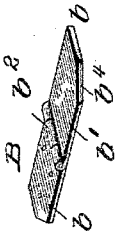

Fig. 5.

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UNITED STATES PATENT OFFICE.

THOMAS N. WARD, OF HENDERSON, AND MARTIN CRAHEN, OF PRINCETON, KENTUCKY.

TRACK AND WHEEL GAGE.

SPECIFICATION forming part of Letters Patent No. 556,790, dated March 24, 1896.

Application filed August 5, 1895. Serial No. 558,305. (No model.)

To all whom it may concern:

Be it known that we, THOMAS N. WARD, of Henderson, in the county of Henderson, and MARTIN CRAHEN, of Princeton, in the county of Caldwell, State of Kentucky, have invented certain new and useful Improvements in Track and Wheel Gages; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention contemplates certain new and useful improvements in track and wheel gages, and the object is to provide simple and inexpensive means whereby different diameters of wheels and the width of tracks can be quickly ascertained with accuracy. This we accomplish by providing a rule, preferably of the folding pocket style, with a series of plates capable of being folded back out of the way or extended beyond one side edge at right angles thereto, said plates being located on said rule, so as to enable the operator to readily gage the diameters of a wheel and the width of a track without the necessity of actual foot and inch measurement, the plates being set according to different standards.

The invention will be hereinafter fully set forth, and particularly pointed out in the claims.

In the accompanying drawing, Figure 1 is a plan view of a folding rule provided with our improvements. Fig. 2 is a view of a portion of the rule, showing the reverse side thereof. Fig. 3 is a detail. Fig. 4 is a view similar to Fig. 1, but enlarged.

Referring to the drawings, A designates a rule formed in sections a united by hinges in such manner that they can be folded together so as to be conveniently carried in the pocket. The rule is usually six feet long, all the parts being extended. On one side, a', are scales of graduation.

B designates a series of plates attached to the other side, a^2, of the rule. Each plate is in the form of a hinge, having one member, b, rigidly attached to the side of the rule, and its other member, b', capable of being extended outwardly at right angles to the longitudinal side edge of the rule, or folded back upon the member b, the hinge portion b^2 being adjacent to said side edge. The hinged member b' has a straight edge b^3, and at the other side one of its corners is cut off and beveled, as at b^4, to enable the operator to readily insert his finger thereunder to turn said member outward. This cut-off also serves to accommodate any flanged or projecting portion when two such plates are located near to each other. One of these plates is located at C, within a short distance of one end of the rule, and it forms the gage-point from which all measurements are taken, the straight edge b^3 of each plate serving as the measuring-point in each instance. Two gage-plates are located at D D', the former being set to indicate, in connection with the plate at C, the least gage or diameter of inside of wheels, and the latter, D', the greatest inside gage. Near these plates are located, at E E', two additional plates for indicating varying track-gages, while a plate at F, in connection with the plate at C, designates the extreme diametrical wheel measurement. Thus it will be seen that the plates are set to different standards of measurement, and by means thereof the different gages can be quickly ascertained. When not being used, all or any of the plates can be turned back upon themselves and the sections of the rule folded together.

The advantages of our invention are apparent to those skilled in the art to which it appertains, and it will be specially observed that we have provided a simple and inexpensive track and wheel gage which will insure accuracy of measurement and greatly facilitate ascertaining the different gages of wheels and tracks.

We claim as our invention—

1. A track and wheel gage comprising a rule, or the like, having a series of sectional plates consisting each of a rigid member, and a hinged member, said latter member having an inwardly-beveled corner, substantially as and for the purpose set forth.

2. A track and wheel gage comprising a rule, or the like, having a plate, or the like, projecting therefrom at right angles to one of

the longitudinal edges of said rule, and a series of said plates arranged relatively to said former plate, all of said plates having each a rigid member and a hinged member provided with a straight edge and an inwardly-beveled corner, substantially as set forth.

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

THOMAS N. WARD.
MARTIN CRAHEN.

Witnesses:
ALBERT J. SCHULZ,
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