Sept. 2, 1941. C. H. H. RODANET 2,255,003

INDICATING POINTER

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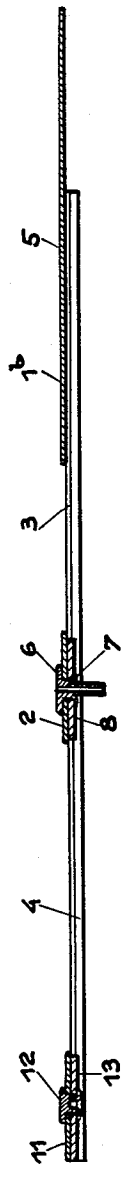


Fig. 1.

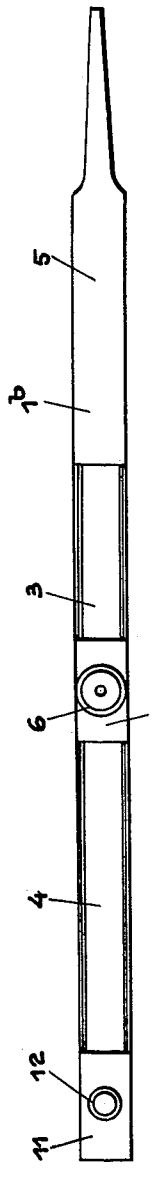


Fig. 2.

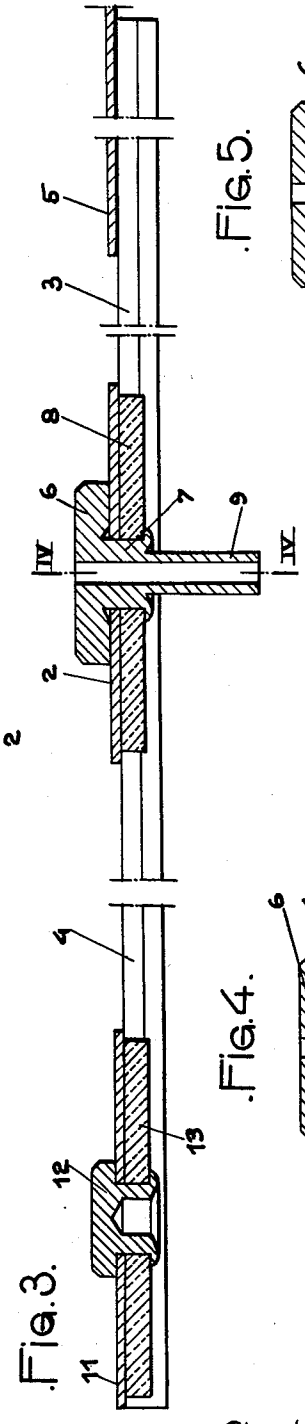


Fig. 3.

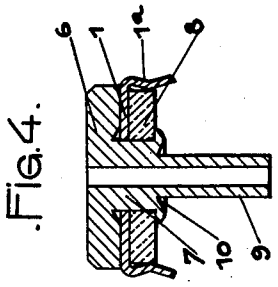


Fig. 4.

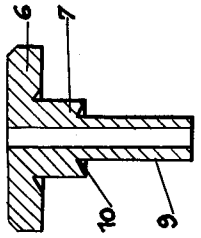


Fig. 5.

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INDICATING POINTER

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Application July 12, 1939, Serial No. 283,947
In France August 5, 1938

4 Claims. (Cl. 116—129)

The present invention has for main object a new industrial product constituted by an indicating pointer which presents the distinctive features set forth hereinafter, so as not to hinder the visibility of the dial near its centre and to be sufficiently rigid notwithstanding its lightness.

The indicating pointer according to the invention is constituted by a bar of U-shaped cross section the web of which is cut away along either side of the centre on suitable lengths, and the branches of which are slightly curved inwardly in the form of a very open V; the centre receives a barrel having a head, a cylindrical part which passes through the web of the bar and a riveting plate, then the rod of the barrel, the connection between the said cylindrical part and said rod of the barrel being ensured by a frustum-shaped recess the edges of which are bent down to form the riveting; the indicating end part is obtained by cutting out the branches and the web of the bar and the opposite end part receives a balancing rivet secured in position in the same manner as the barrel.

The accompanying drawing illustrates, by way of example only, a form of construction of the indicating pointer according to the invention.

Fig. 1 is a view in elevation and axial section.

Fig. 2 is a corresponding plan view.

Fig. 3 is similar to Fig. 1, but on an enlarged scale and with parts broken away.

Fig. 4 is a section made according to line IV—IV of Fig. 3.

Fig. 5 is a sectional view, on an enlarged scale, of the barrel before riveting.

The pointer illustrated is composed of a bar 1 of U-shaped cross section, more particularly visible in Fig. 4, the branches 1^a of which are slightly curved in the form of a very open V.

The web 1^b of said bar is cut away on either side of the centre 2, as shown at 3 and 4. The cut away part 3 on the side of the indicating part 5 is not so long as the cut away part 4 on the opposite side, so as to reserve a greater visible length for the indication, which is moreover covered with a luminescent coating if desired.

The barrel of the pointer comprises (Figs. 3 and 5) a head 6, then a cylindrical part 7 (passing through the centre 2 and a riveting plate 8), and finally the rod of the barrel 9. Between the parts 7 and 9 a circular pitting 10 is effected the edges of which, by being bent down with a tool will serve to form the riveting shown in Figs. 1 and 3. The riveting plate 8 serves the purpose of stiffening and reinforcing the intermediate portion of the pointer, and gives it a body which will tolerate riveting over the lower edge of cylinder 7 of the pointer center.

At the end 11 opposed to the indicating end 5 is secured a rivet 12, with an inner riveting plate 13, similar to the plate 8. The riveting plate 13 serves the twofold purpose of partly counterbalancing the greater length and weight of web 1^b over web 11, and giving the pointer desirable inertia, or momentum in movement, while the rivet 12 completes the counter-balancing effect and serves to retain the plate 13 in predetermined position.

The cut away parts 3 and 4 allow, so to speak, of seeing through the pointer, which allows the central part of the dial to be used which would be partly concealed by a solid pointer; moreover the pointer is extremely light, whilst being of sufficient rigidity.

The pointer according to the invention is applicable to all measuring instruments and indicating devices but, more particularly to those the dial of which comprises a plurality of juxtaposed indicating graduations and which does not cooperate with the recessed pointer according to the invention, which must pass over them without concealing them.

What I claim as my invention and desire to secure by Letters Patent is:

1. An indicating pointer for use upon an indicating apparatus including a unitary bar of substantially U-shaped cross section which is pivotally mounted at a point intermediate the extremities and has upon both sides of the pivotally mounted portion of the bar an open area in the web portion thereof extending limited distances along said bar toward said extremities.

2. An indicating pointer according to claim 1, having the side edge portions exteriorly concave and extending along the major portion of the length of the pointer past the open areas in the web portion of the same.

3. An indicating pointer for use upon an indicating apparatus including a unitary bar of substantially U-shaped cross section which is pivotally mounted at a point intermediate the extremities and has upon both sides of the pivotally mounted portion of the bar an open area in the web portion thereof extending limited distances along said bar toward said extremities, a reinforcement member of limited length located within the outline and cross sectional profile of the intermediate portion of said bar, and a pivot head or barrel having a lower portion passing through said intermediate portion and said reinforcement member to serve as the pivotal mounting for the pointer, said lower portion of the barrel having an edge portion bent over to retain said reinforcement member assembled with said bar.

4. An indicating pointer according to claim 3, having a rivet means secured to the web portion toward one extremity of the bar while said bar is cut at the other extremity to form the indicating end of said pointer.

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