

PATENT SPECIFICATION



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COMPLETE SPECIFICATION.

Improvements in Adjustable Wrenches.

- We, JULIUS KIND and WILLY KREINBERGER, both of Bergstrasse Mehlis, Thuringen, Germany, German citizens, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—
- This invention relates to automatically adjustable wrenches of the type which can be instantly adjusted on any nut, pipe or the like, by the movement of a single handle, and in which one part is formed integral with the fixed jaw and serves as a guide for the adjustable jaw, the fixed jaw being pivoted on a pin to the handle which latter has a toothed sector shaped portion adapted to engage in a rack on the moveable jaw.
- The present improvements consist in a wrench wherein the guiding means for the movable jaw is T-shaped so as to give greater bearing surface and wherein the handle is either slightly curved or straight in which latter case the same is provided with a mark or projection to indicate correct handling of the wrench.
- The drawings show the invention, in which:—
- Fig. 1 is a side view of the new wrench open.
- Fig. 2 is a longitudinal section corresponding to Fig. 1.
- Fig. 3 is a longitudinal section of the jaws in the closed position.
- Figs. 4 and 5 show corresponding side views.
- In this construction *a* is the body portion of the wrench formed integral with the solid jaw *b* and pivotally connected with the handle *d* by means of the pivot *c* in the usual way. The jaw *b* is formed with a guide *e* serving to engage with the moveable jaw *f*. This guide *e* is T-shaped, being smaller in cross section at the top than at the bottom.
- The moveable jaw *f* is correspondingly shaped, its reduced part *f*¹ engaging in the narrow portion of the guideway *e*, its wider portion *f*² having the usual rack *g* meshing with the teeth on the toothed sector *h* of the handle *d*.
- The arrangement is such that a better bearing & guiding surface is obtained which provides a more reliable wrench.
- With the object of preventing the wrench from being wrongly applied, the handle *d* may have, as in the example shown, a slightly curved shape to draw the user's immediate attention to the proper way of handling it. In the case of a straight handle, a projection or indentation might be made on one face thereof so as to indicate the direction for closing the jaws.
- Having now particularly described and ascertained the nature of our said invention, and in what manner the same is to be performed, we declare that what we claim is:—
- An automatically adjustable wrench of the type referred to wherein the guiding means for the movable jaw is T-shaped so as to give greater bearing surface and wherein the handle is either slightly curved or straight, in which latter case, the same is provided with a projection or other mark enabling the user to know at once the correct way of applying the wrench either for tightening or loosening purposes.
- Dated this 10th day of January, 1921.
- CHATWIN & COMPANY,
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Agents for the Applicants.

[This Drawing is a reproduction of the Original on a reduced scale]

