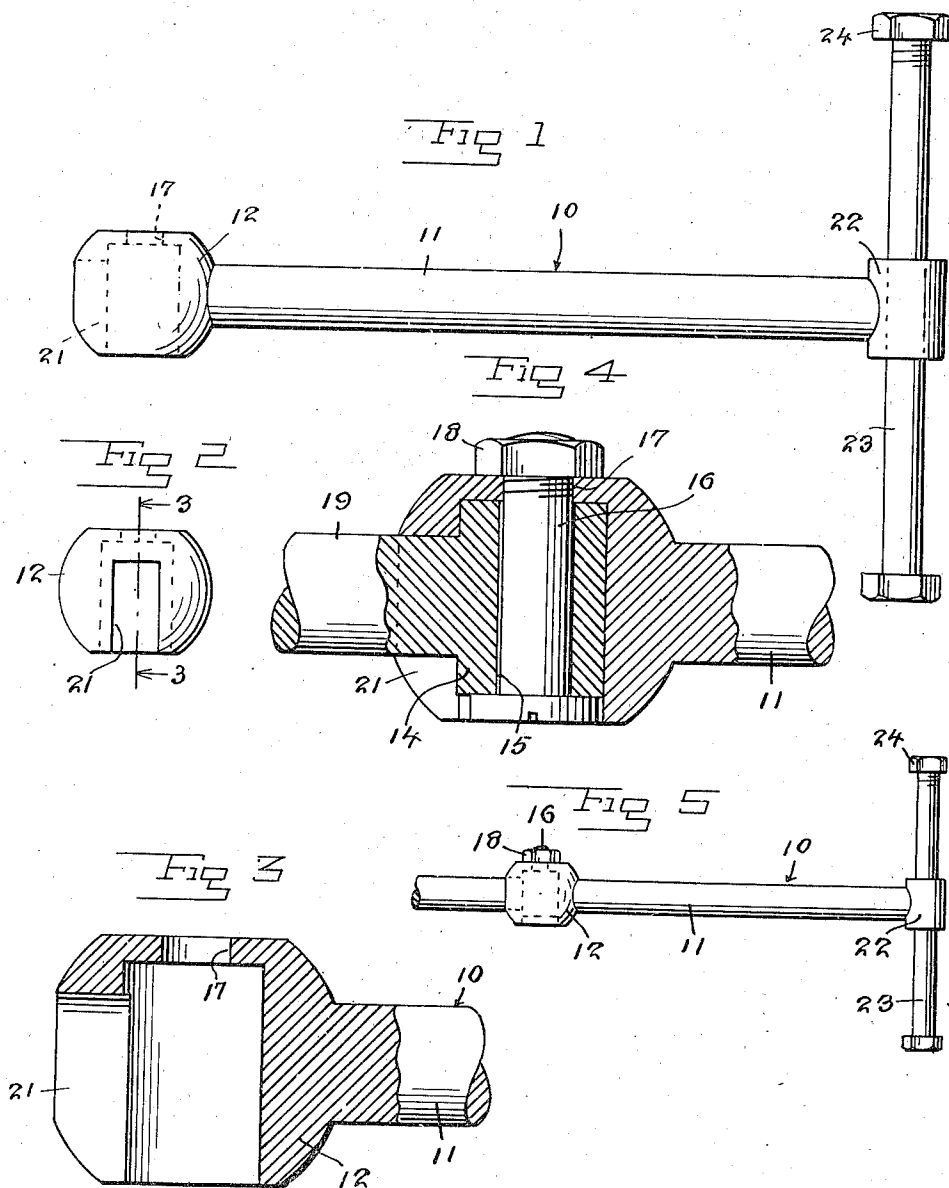


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T. B. BAMBERG  
BASIN WRENCH EXTENSION

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## UNITED STATES PATENT OFFICE

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## BASIN WRENCH EXTENSION

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1 Claim. (Cl. 287—124)

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This invention relates to a basin wrench extension.

It is an object of the present invention to provide a wrench extension wherein the connection of the extension to the wrench can be effected in an easy and quick manner and wherein the construction of the connection between the wrench and the extension is simple and adapted when the extension and wrench is separated to permit the insertion of a long handle for use on the wrench.

It is another object of the present invention to provide a wrench extension which is of simple construction, inexpensive to manufacture and efficient in operation.

For other objects and for a better understanding of the invention, reference may be had to the following detailed description taken in connection with the accompanying drawing, in which

Fig. 1 is a side elevational view of the wrench extension with the long bolt extended through one end of the same.

Fig. 2 is an end elevational view of the wrench extension showing the opening through which the wrench is extended to effect the connection with the extension.

Fig. 3 is an enlarged cross-sectional view taken on line 3—3 of Fig. 2.

Fig. 4 is a similar cross-sectional view, with portions in full, showing the extension and wrench coupled together.

Fig. 5 is a side elevational view of the wrench extension connected to the handle end of a wrench or to another extension.

Referring now to the figures, 10 represents the extension embodying the features of the present invention. This extension has a shaft portion 11 with a socket formation 12 on one end thereof. This socket formation is adapted to receive the handle end of a wrench which is provided with an integral sleeve formation 14 having an opening 15 therethrough by which the wrench handle can be secured within the socket as by the extension of a fastening bolt 16 through the opening 15 and through an opening 17 in the bottom of the socket formation. A nut 18 is made fast to the connecting bolt 16 whereby the wrench sleeve formation 14 is retained in the socket 12.

The wrench handle is indicated at 19 and the sleeve formation 14 is integral therewith. A

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slot 21 is adapted to receive the handle 19. This slot is open at its bottom end.

In the opposite end of the extension 10 is a sleeve formation 22 constructed similarly to the sleeve formation 14 of the wrench handle. This sleeve formation can receive a long bolt 23 by which the turning of the extension is effected. Upon removal of this bolt 23, the sleeve 22 can be fitted into the socket 12 of another extension, whereby extensions can be connected together to give additional length to the wrench. A nut 24 on the bolt 23 will prevent the bolt 23 from being released from the sleeve 22.

While various changes may be made in the detail construction, it shall be understood that such changes shall be within the spirit and scope of the present invention as defined by the appended claim.

I claim:

20 The combination of a wrench extension having a shaft portion with a socket formation on one end thereof, said socket formation including a circular opening extending from one side thereof and a rectangular shaped slot in the outer end of the socket formation leading from the end face of the same into the opening therein, and a wrench handle having a tubular sleeve formation on one end thereof which is adapted to be received in the circular opening in said socket formation, said wrench handle being shaped to conform to and extend through the slot in said socket formation, the shape of said handle and said slot preventing rotation of said sleeve formation in said opening, and means 25 passing through said sleeve formation and said socket formation for securing said sleeve formation within said socket formation.

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