Jan. 31, 1956 H. KUCHMAN ET AL 2,732,744

PIVOTED WORK HOLDING AND BENDING TOOL

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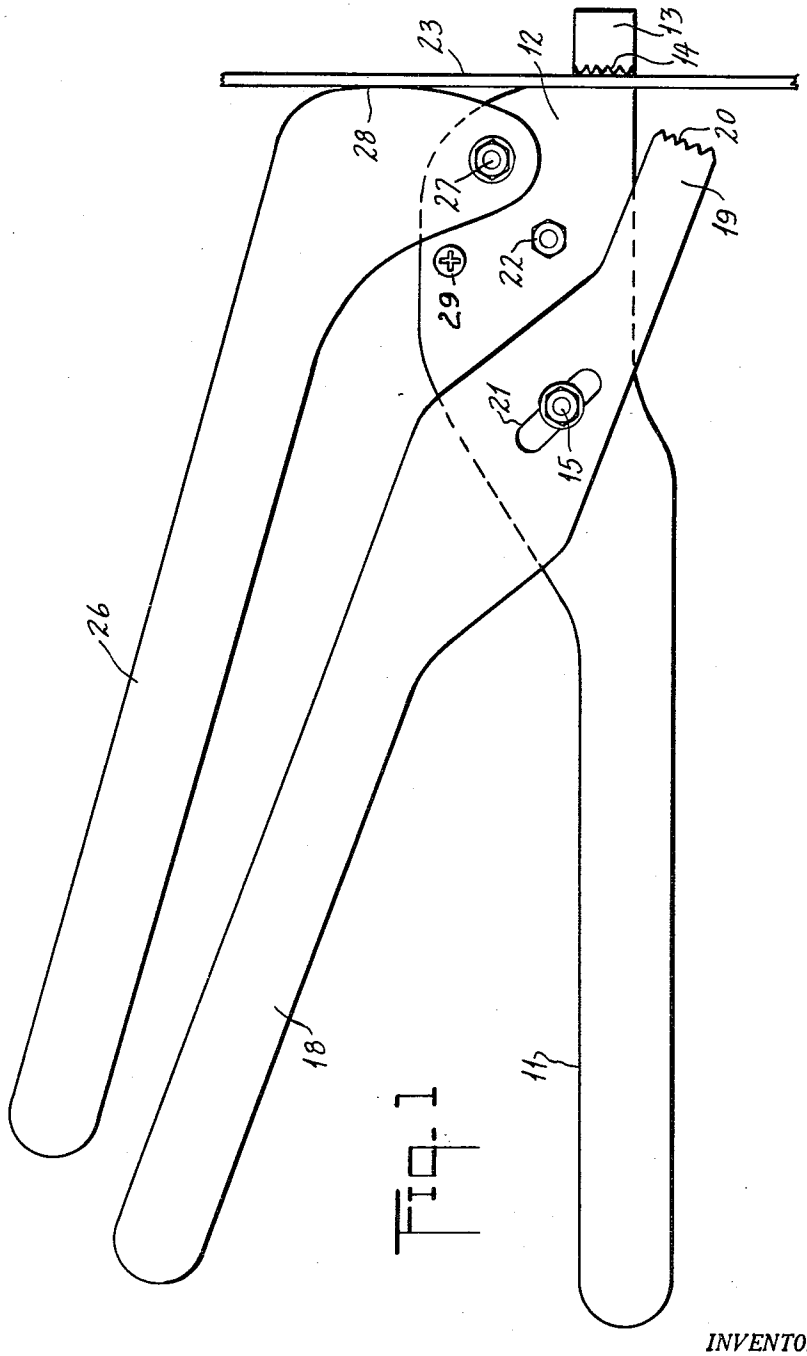


Fig. 1

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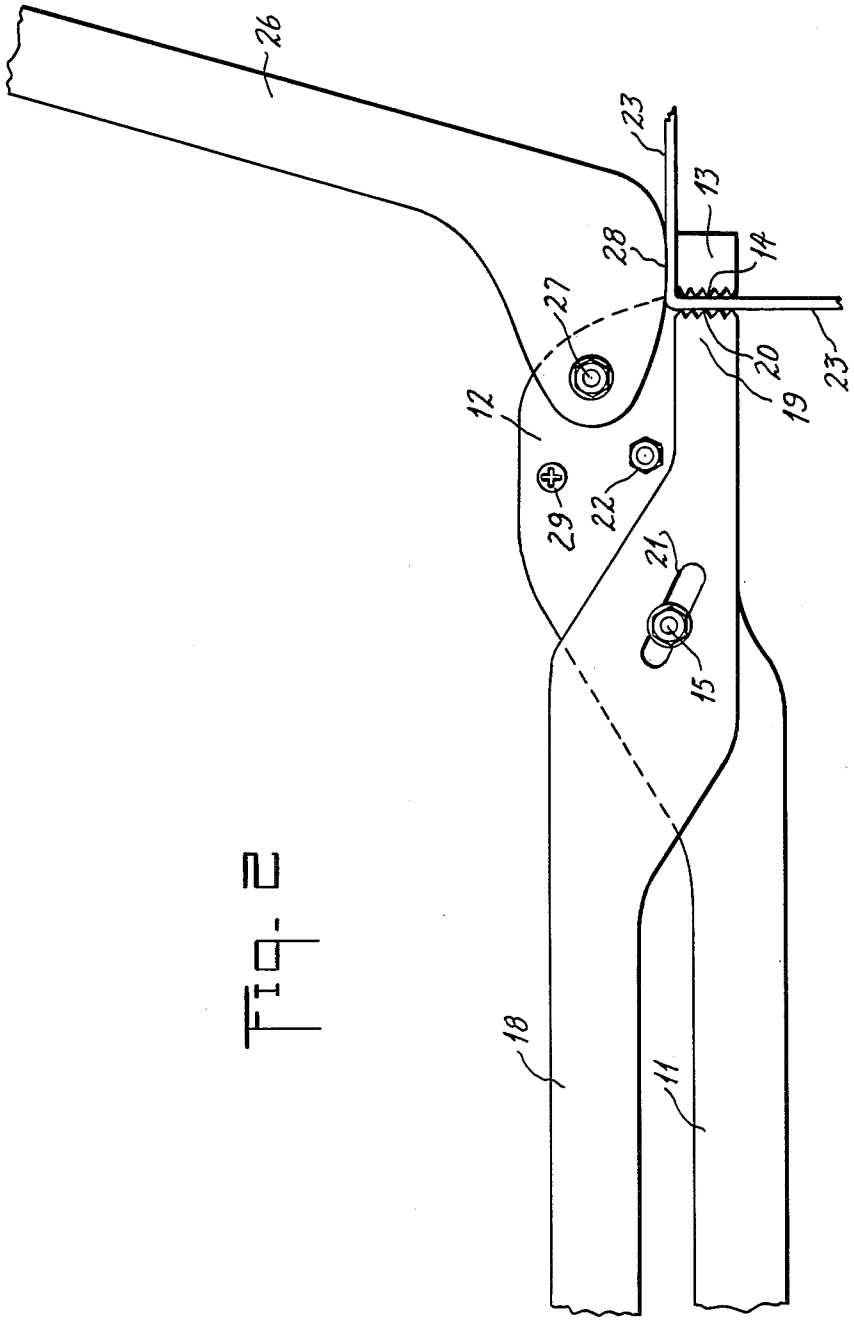


FIG. 2

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PIVOTED WORK HOLDING AND BENDING TOOL

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1 Claim. (Cl. 81—15)

(Granted under Title 35, U. S. Code (1952), sec. 266)

The invention described herein may be manufactured and used by or for the Government of the United States of America for governmental purposes without the payment of any royalties thereon or therefor.

The present invention concerns a stubbing tool and in particular concerns a pliers-type of stubbing tool in which there is provided adjacent the jaws a cam operable to bend a workpiece about one of the jaws gripping the workpiece.

An object of the invention is to provide a tool.

Another object is to provide a stubbing tool.

Another object is to provide a pliers-type stubbing tool that can be used for bending a workpiece about one jaw of the pliers that holds the workpiece.

Other objects and many of the attendant advantages of this invention will be readily appreciated as the same becomes better understood by reference to the following detailed description when considered in connection with the accompanying drawings wherein:

Fig. 1 is a view showing a preferred embodiment in open position, and

Fig. 2 is a view showing the embodiment in closed position.

In Fig. 1 there is shown a preferred embodiment of the invention comprising a handle **11** having an enlarged portion **12** terminating in a jaw **13** provided with a serrated gripping face **14**. Mounted on enlarged portion **12** is a pintle **15**.

Mounted for swinging movement on handle **11** is a second handle **18** having a jaw **19** provided with a serrated gripping face **20**. Handle **18** is formed with an elongated slot **21** through which extends pintle **15** so that handle **18** can swing upon handle **11** and so that jaw **19** can be adjusted to provide a selected clearance between jaw **19** and jaw **13**. A stop **22** is provided to limit movement of handle **18** toward handle **11** and to prevent jaw **19** from swinging past jaw **13**. The distance from pintle **15** to jaw **13** is longer than the distance from pintle **15** to jaw **19** so that when jaw **19** is swung into closed position it is located between jaw **13** and pintle **15** with serrated portions **20** and **14** in opposition. A workpiece **23** can be gripped between jaws **19** and **13**.

A third handle **26** is mounted for swinging movement upon handle **11** by means of a pintle **27**. Pintle **27** is disposed adjacent jaw **13** and to one side of a line between pintle **15** and jaw **13**. Handle **26** is enlarged to provide a cam **28** that upon swinging of handle **26** is adapted for movement toward and away from jaw **13**. A stop **29** is provided to limit movement of handle **26** toward handle **11**.

In operation as seen in Fig. 1 handle **18** is swung into open position in a direction away from handle **11** and handle **26** is swung into open position in a direction toward handle **11**. Under these conditions the workpiece, which may be a strap of metal, is placed against jaw **13**. Handle **18** is then closed in a direction toward handle **11** so that workpiece **23** is gripped tightly between jaws **13** and **19** as shown in Fig. 2. Handle **26** is then swung away from handle **11** into closed position so that cam **28** forces workpiece **23** about and across the top of jaw **13** to provide a bend in workpiece **23** as shown in Fig. 2.

Workpiece **23** is removed by reversing the operation which consists in swinging handle **26** toward handle **11** to open position and swinging handle **18** away from handle **11** into open position.

Obviously many modifications and variations of the present invention are possible in the light of the above teachings. It is therefore to be understood that within the scope of the appended claim the invention may be practiced otherwise than as specifically described.

We claim:

A tool comprising a first handle, a planar serrated jaw fixed to one end of said first handle to extend transversely of and to face toward the opposite end of said first handle, a second handle, a second planar serrated jaw fixed to one end of said second handle to extend transversely of and to face away from the opposite end of said second handle, a pintle mounted on one of said handles, the other of said handles formed with an elongated slot to register with said pintle whereby said handles are joined for pivotal movement with respect to each other with said first jaw at a greater distance from said pintle than said second jaw so that relative pivotal movement of said handles causes said jaws when in closed position to be disposed with said second jaw adjacent to said first jaw and between said first jaw and said pintle to define a spacing between said jaws that is variable in accordance with the position of said pintle in the elongated slot whereby a workpiece can be accommodated between said jaws and extend in a direction substantially perpendicular to a line between said first jaw and said pintle, a third handle, a peripheral cam fixed to one end of said third handle, and a second pintle mounted on said first handle adjacent said first jaw and to one side of a line between said first jaw and said first-mentioned pintle, said third handle pivotally mounted on said second pintle, said peripheral cam upon pivotal movement of said third handle being adapted for movement toward or away from said first jaw whereby a workpiece that is gripped between said first and second jaws is adapted to be progressively bent about said first jaw.

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