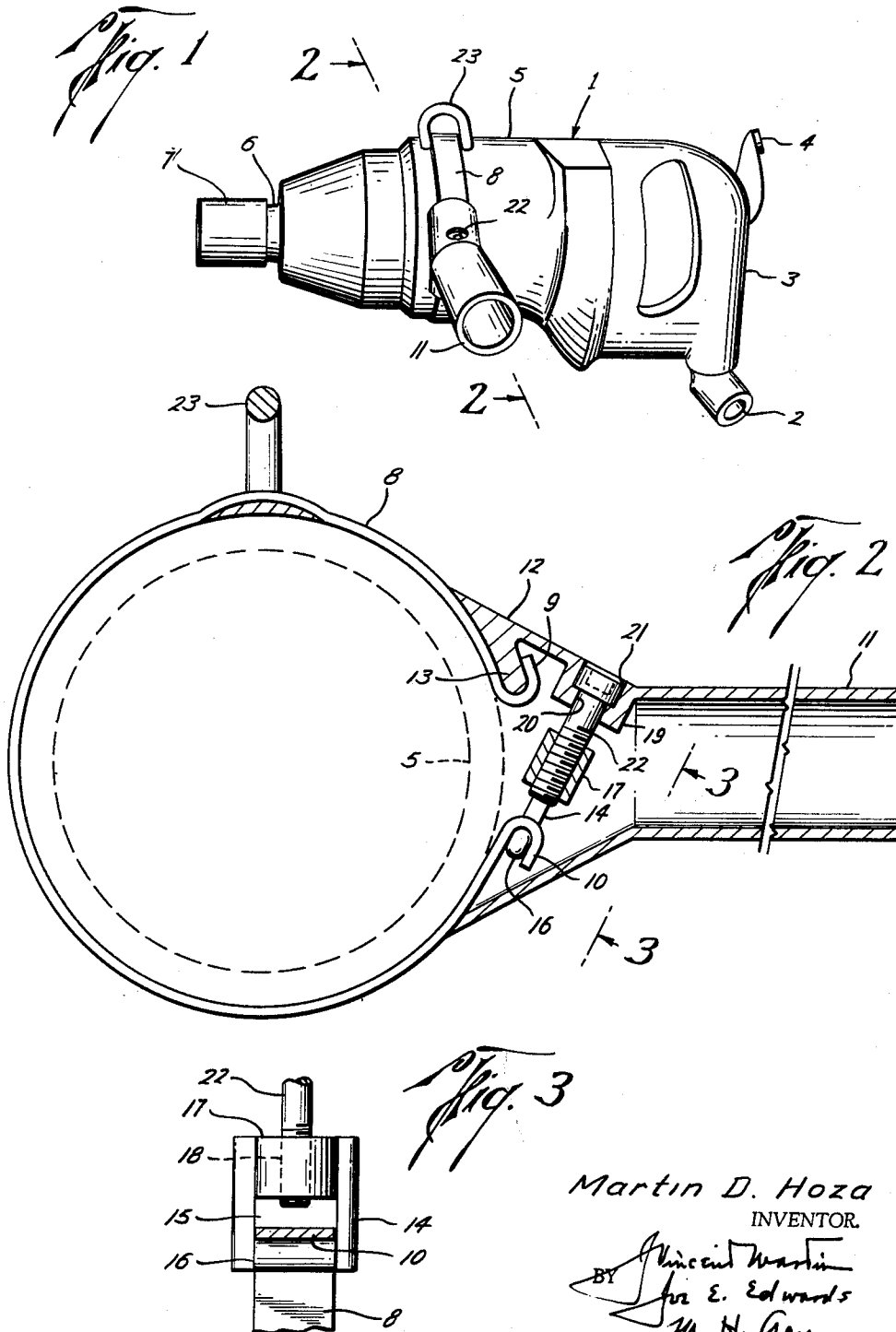


Sept. 15, 1964

M. D. HOZA
ADJUSTABLE DEAD HANDLE
Filed March 16, 1962

3,148,568



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3,148,568

ADJUSTABLE DEAD HANDLE

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Filed Mar. 16, 1962, Ser. No. 180,138
1 Claim. (Cl. 81-177)

This invention relates generally to portable power tools such as nut runners, impact wrenches or the like, and more particularly to an adjustable handle therefor.

It is an object of this invention to provide a new and improved, quickly adjustable and detachable handle or grip for portable power tools.

It is another object of this invention to provide a new and improved handle means for a portable power tool including a discontinuous band substantially encircling said tool, a grip means extending from said band and having means to tighten the band into frictionally bound engagement with the housing of the tool, and a bail secured to the tool by the band to provide means for supporting the tool.

Other objects will become apparent from the following description and accompanying drawings, in which:

FIG. 1 is a perspective view of a portable impact wrench having the improved handle secured thereto.

FIG. 2 is a sectional view taken along line 2-2 in FIG. 1.

FIG. 3 is a detail view taken along line 3-3 in FIG. 2.

Referring to the drawings, a portable power tool, such as a pressure fluid actuated impact wrench, is shown generally at 1, having an inlet connector 2 adapted to be connected to a suitable source of pressure fluid. The tool has a live handle 3, having a manually operated trigger 4 which serves to actuate a valve to admit pressure fluid to the wrench motor in a conventional manner.

The live handle 3 is secured to a housing 5. A rotatable spindle 6 extends outwardly from the front portion of the housing 5. A socket 7 is rotatably secured to the spindle 6, and is adapted to rotatably drive nuts and bolts or the like.

A metal band 8 substantially encircles the housing 5. The ends of the band 8 are bent to form oppositely disposed hooks 9 and 10. A dead handle 11 extends radially outwardly from the band 8, and has an enlarged inner end 12 adapted to fit over the hooks 9 and 10 of the band 8. The inner end 12 of the handle 11 is provided with a lug 13 which engages and registers within the hook 9. A link 14 has an opening 15 therethrough which is sufficiently wide to pass the band 8. A lower portion

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16 of the link 14 is adapted to engage within the hook 10 of the band 8. An upper portion 17 of the link 14 is enlarged and has a threaded hole 18 therethrough.

The handle 11 has a boss 19 which has a hole 20 therethrough and is counterbored as at 21. An internal wrenching cap screw 22 extends through the hole 20 and is threaded into the hole 18 of the link 14. The head of the cap screw 22 fits into the counterbore 21. Thus it will be apparent that as the cap screw 22 is tightened, the end hooks 9 and 10 of the band 8 are drawn toward each other causing the band 8 to frictionally grip the housing 5 of the tool to thereby secure the dead handle 11 in the angular position desired, or to position it to avoid interference with parts on or about the work.

A bail 23 may also be secured between the band 8 and the housing 5 in order to provide means to support or to counterbalance the weight of the tool.

It will be apparent that the handle 11, band 8, bail 23 and the attendant parts may be quickly removed from the tool if space limitations on or about the work so require.

This invention is not limited to the embodiment shown. Various changes within the scope of the following claim will occur to those skilled in the art.

I claim:

A handle attachment for a portable tool comprising a band substantially encircling said tool, a grip extending radially from said band, means on said grip for frictionally locking said band in position on said tool, a bail angularly displaced from said grip and adjustably secured to the tool by said band, said band, grip and bail being arranged in a common plane normal to the longitudinal axis of said tool.

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