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1,965,856

DIE STOCK

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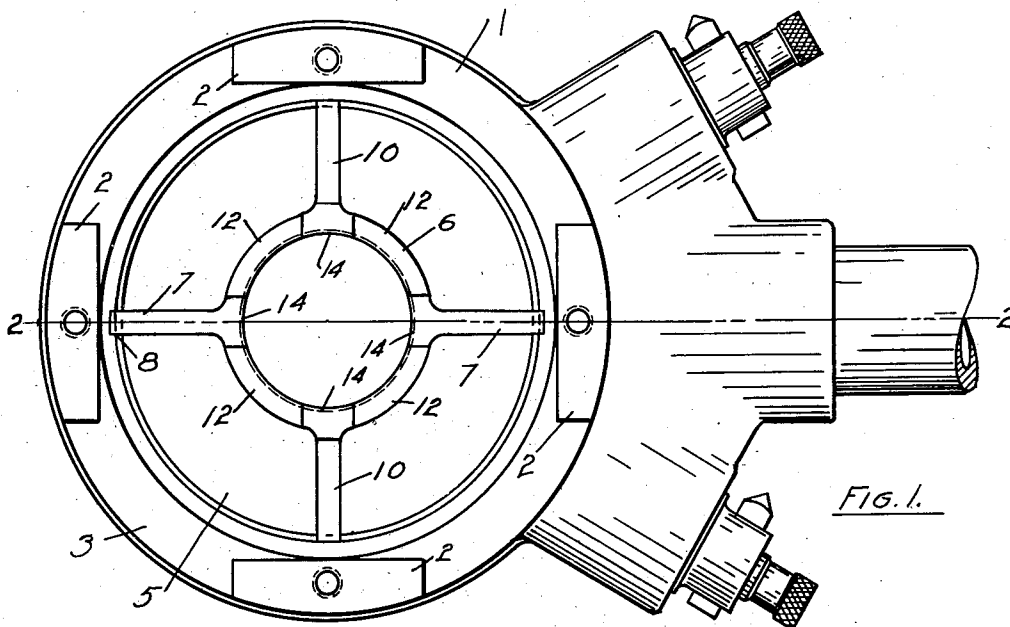


FIG. 1.

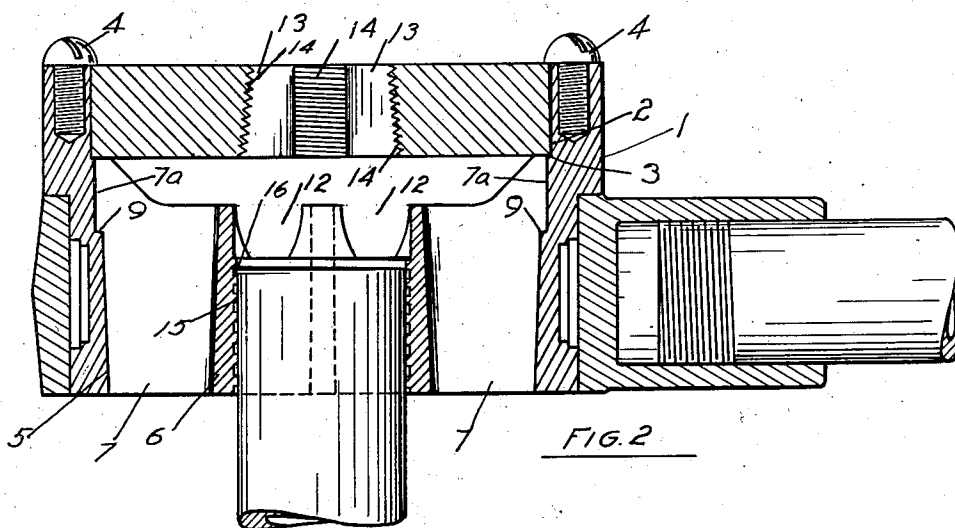


FIG. 2

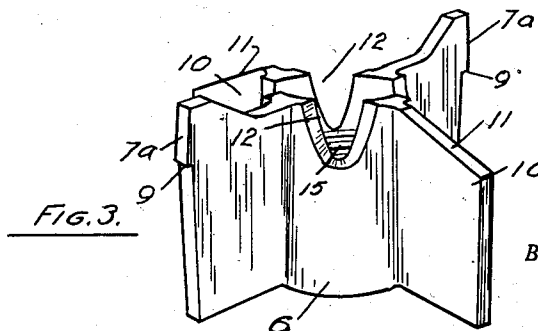


FIG. 3.

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DIE STOCK

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1 Claim. (Cl. 10—127)

Die stocks are usually provided with guides which are intended to center and aline the stock with a pipe on which a thread is to be cut. With some types of cutting-off tools a burr is formed on the end of the pipe. This burr seldom extends entirely around the pipe, but is sufficient to prevent the passage of the pipe through the guide if a large over-size opening is not provided in the guide. The present invention is designed to permit the use of a guide with an opening more nearly the size of the pipe than has been practical heretofore. The invention is also directed to an improvement in the guide whereby greater chip clearance is provided so that the stock may readily clear itself of chips. Features and details of the invention will appear from the specification and claim.

A preferred embodiment of the invention is illustrated in the accompanying drawing as follows:—

Fig. 1 shows an elevation of the die stock with the cutting die removed.

Fig. 2 a section on the line 2—2 in Fig. 1 with the chaser die in place.

Fig. 3 a perspective view of the guide removed.

1 marks the body of the stock. One face of the stock is provided with shoulders 2 which, in effect, provide a socket for the chaser die, the bottom of the socket 3 being formed by the face of the die stock. Screws 4 are arranged in the shoulders 2 and secure the die plate in place.

The body of the die stock has an opening 5 extending through it. A guide sleeve 6 has the radially extending plates, or wings 7 fitting the walls of the opening. Two of these plates are of greater length than the other plates and have projections 7a which extend into grooves 8 in the walls of the opening. The projections 7a bottom on the shoulders 9 at the bottom of the grooves 8 and the outer ends of these two plates engage the face of the die so that as the die is locked in place the guide is locked in place. The other two plates 10 merely fit the walls of the opening 5 and have their outer ends at 11 cut away to give a greater freedom of chip movement. The sleeve 6 is also notched at 12, these notches being directly in register with chip openings 13 between chasers 14 of the die. Thus again chip freedom is provided. The inner surface of the sleeve 6 has a coarse thread 15 which is adapted to receive a burr 16 at the end of the pipe. With this screw thread it is possible to enter the burr in the thread and by rotating the die carry the pipe through the guide tube. In this way a reasonably close fit can be made between the opening of the guide sleeve 6 and the pipe and thus the pipe is not only centered with the chaser die, but also very closely alined and thus assures a thread practically in line with the pipe.

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What I claim as new is:—

In a die stock, the combination of a body; a die mounted in the body; and a pipe guide having a guide opening concentric with the die, said opening being threaded to permit the introduction of a burred end of a pipe to be threaded.

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