No. 749,318. PATENTED JAN. 12, 1904.

T. E. MORRIS.

DRILL ROD CLAMP.

APPLICATION FILED MAR. 14, 1903.

NO MODEL.

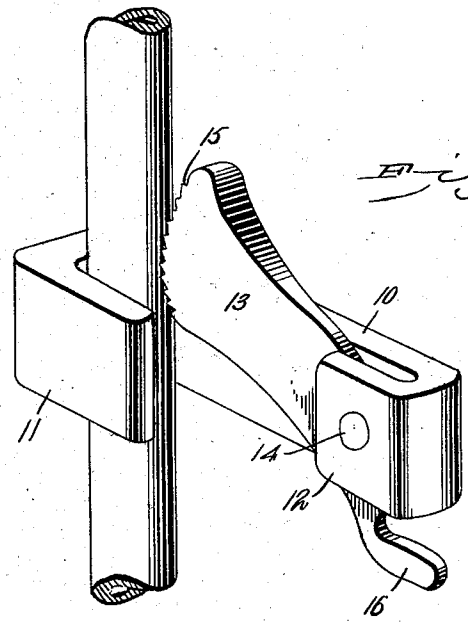


Fig. 1.

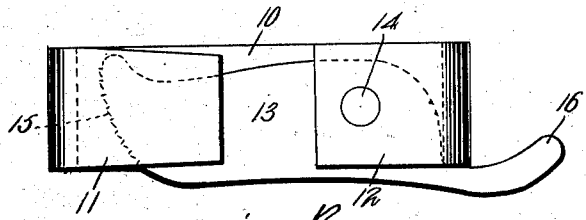


Fig. 2.

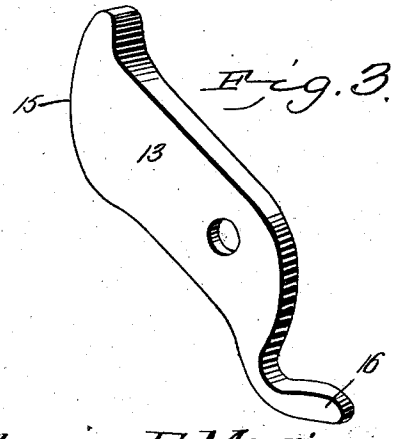


Fig. 3.

Witnesses
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

No. 749,318. Patented January 12, 1904.

UNITED STATES PATENT OFFICE.

THOMAS E. MORRIS, OF CALVARY, OHIO.

DRILL-ROD CLAMP.

SPECIFICATION forming part of Letters Patent No. 749,318, dated January 12, 1904.

Application filed March 14, 1903. Serial No. 147,831. (No model.)

To all whom it may concern:

Be it known that I, THOMAS E. MORRIS, a citizen of the United States, residing at Calvary, in the county of Morgan and State of Ohio, have invented a new and useful Drill-Rod Clamp, of which the following is a specification.

This invention relates to devices employed for supporting pipes, rods, cables, and the like, more particularly for application to pump-rods and similar structures to which it is especially adapted, and has for its object to simplify and improve devices of this character and increase their efficiency without increasing the expense; and the invention consists in certain novel features of construction, as hereinafter shown and described, and specified in the claim.

In the drawings illustrative of the invention, in which corresponding parts are denoted by like designating characters, Figure 1 is a perspective view of the device applied. Fig. 2 is a side elevation with the parts in their inoperative positions. Fig. 3 is a perspective view of the movable jaw detached.

The improved device consists of a stock or frame 10, having a stationary jaw 11 at one end and with the other end 12 turned into position parallel to the stock and spaced therefrom, thereby forming a socket opening toward the stationary jaw 11, as shown. Within this socket the opposing jaw member 13 is movably mounted, as by a pivot 14 passing through the members 10 and 12 and formed with a curved cam-face 15, adapted to operate against the object being clamped and firmly support it against the jaw 11, as will be obvious. The curved cam-surface 15 may be serrated, as in Figs. 1 and 2, or smooth, as in Fig. 3, according to the object to which the device is to be clamped. If the object to be clamped is a pipe or rough drill-rod or a cable, the surface 15 will preferably be serrated; but if the object is the "polish-rod" or other "finished" surface, which the serrations would be liable to injure, then the cam-surface would be formed without the serrations; but this modification would not be a departure from the principle of the invention, as the operation and results produced would be the same with or without the serrations.

Extending from the rear lower end of the movable jaw 13 is an arm 16, adapted to engage the lower edge of the portion 12 and extend beyond it, as shown in Fig. 2. The arm 16 thus serves two important purposes—first, as a stop to limit the downward movement of the free end 15 of the jaw 13, and, second, as a ready and convenient means of releasing the movable jaw or to throw it up into inoperative position when the device is to be applied for convenience in "entering" the rod or other object between the jaws.

This makes a very simple, convenient, and easily-applied "grip," which will firmly hold any object to which it is attached and will be found especially convenient and useful in the various operations relative to oil or gas wells and for similar work.

The device will be manufactured in various sizes to adapt it to various sizes of rods, pipes, or cables and may be of steel, malleable iron, or other suitable metal or combination of metals, as required.

Having thus described my invention, what I claim is—

A clamp comprising a stock formed of a flat bar bent at one end to form a U-shaped socket and having its other end bent on the same side as the U-shaped socket to form bearings and spaced therefrom, a movable jaw mounted in said bearings and having a cam-face at one end extending into said U-shaped socket and an arm at the other end projecting beyond one edge of the stock in position to serve as a stop to limit the movement in one direction of the cam-faced end and as a lever for releasing said cam end from engagement with an object clamped between it and the U-shaped socket.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

THOMAS E. MORRIS.

Witnesses:

M. B. KINSEY,

H. D. FAIRES.