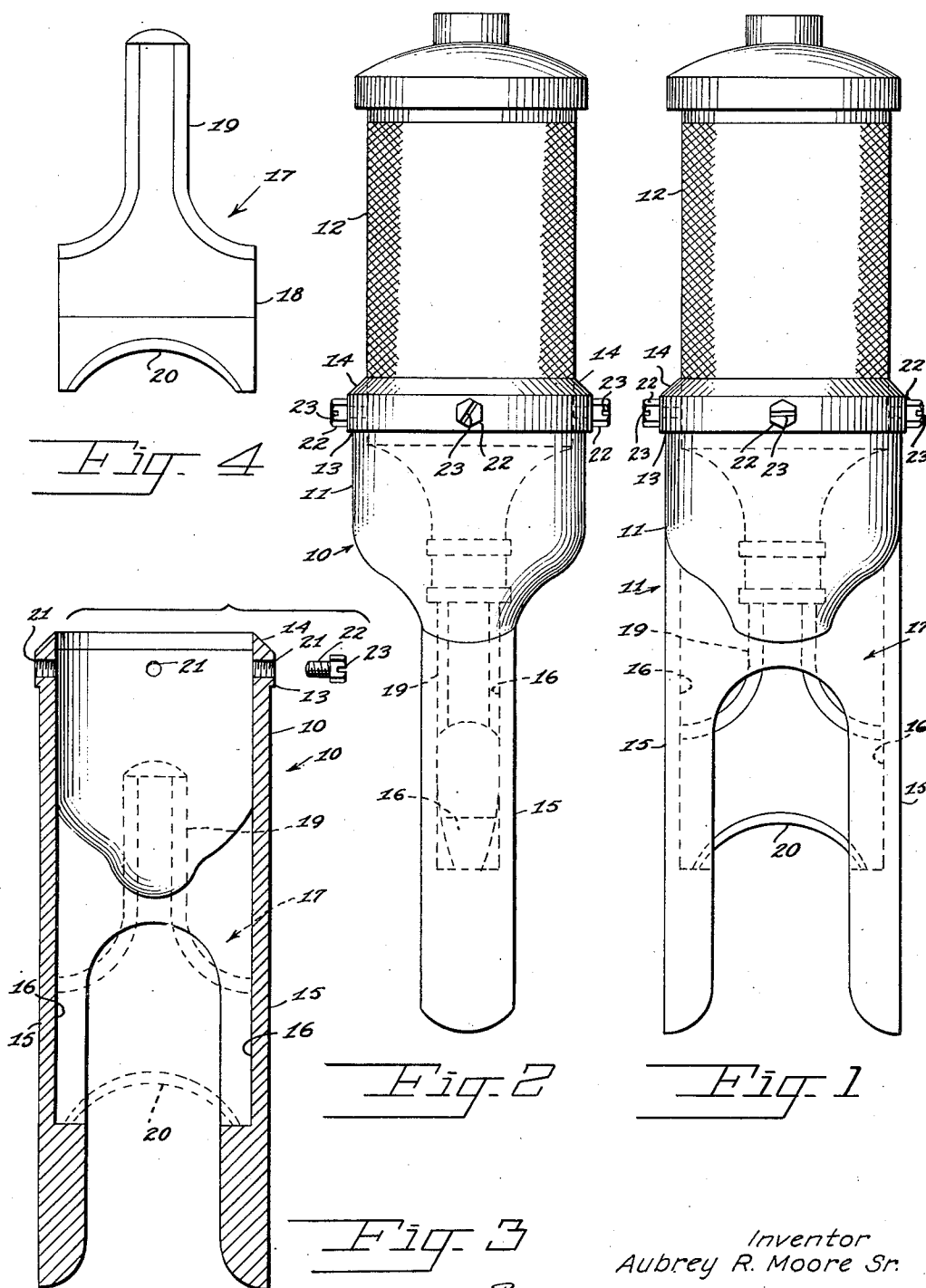


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A. R. MOORE, SR
PIPE AND RAIL CHIPPER

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PIPE AND RAIL CHIPPER

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2 Claims. (Cl. 29—81)

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My invention relates to tools and more particularly to a pneumatically operable chipping tool.

The object of my invention is to provide a chipping tool adapted to be attached to and actuated by an air gun of well known make and construction and having a chipping chisel adapted to remove scales, rust, paint or the like from rails, pipes, etc.

Another object of my invention is to provide a chipper of the character indicated above the chisel whereof can not be removed accidentally or intentionally until the retainer and guide frame is removed from the air gun, to which it is secured by a plurality of set screws.

Other objects of my invention may appear in the following specification describing my invention with reference to the accompanying drawings illustrating a preferred embodiment of my invention.

It is however, to be understood that my invention is not to be limited or restricted to the exact construction and combination of parts described in the specification and shown in the drawings, but that such changes and modifications can be made, which fall within the scope of the claims appended hereto.

In the drawings:

Figure 1 is an elevational side view of a rail chipper according to my invention attached to an air gun.

Figure 2 is an elevational side view taken at right angles to Figure 1.

Figure 3 is a sectional view taken on the vertical center plane of the retainer and guide frame, the chipper chisel being indicated in broken lines, and one of the set-screws usually securing the frame to the air gun shown outside of the frame, and

Figure 4 is an elevational front view of the chipper chisel.

Referring now in detail to the drawings the chipping tool forming the subject matter of my invention has a retainer and guide frame 10, the upper portion 11 of which forms a socket adapted to receive the working or hammer end of an air gun 12 of well known make and construction. The upper portion of the socket 11 is shaped like a hollow cylinder and on the uppermost end thereof an outwardly extending circumferential strengthening flange 13 is formed, the upper outward edge whereof is beveled as shown at 14.

From the socket 11 two prongs 15 extend downwardly and are arranged diametrically opposite

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to each other. Each of these prongs 15 is provided in its inner surface with a square cornered longitudinal groove 16 extending from the socket 11 downwardly partway over the length of the prong.

A chipper chisel 17 has a body 18 adapted to be slidably arranged in the two grooves 16 in the prongs 15 and a hexagonal shank 19, adapted to fit into the air gun 12.

The working edge 20 of the chipper chisel 17 is curved to fit onto a pipe or round rail to be cleaned, and the lower portions of the sides of the chisel are shaped arcuately, so that the working edge of the chisel is thinner than the chisel body.

In the strengthening flange 13 on the guide frame socket 11 a plurality of tapped holes 21 is provided, and in each hole a set-screw 22 with a hexagonal head is arranged adapted to engage the air gun 12 and secure the guide frame 10 thereon. Each screw 22 has a kerf 23 therein, so that the screw may be operated either by a wrench or a screw driver.

The above description shows clearly, how a chipper tool according to my invention can be used to clean a round rail, pipes or the like from rust, scale, paint, etc., by guiding the tool on the pipe by means of the lower ends of the prongs 15. The chipper chisel can not slide out of the tool, since the longitudinal grooves 16 do not extend all the way over the prongs.

Having described my invention, I claim as new and desire to secure by Letters Patent:

1. In a pipe and rail chipping tool having a substantially flat chisel, a guiding and retaining frame for the chisel adapted to be mounted on an air gun for operating said chisel in the frame, said guiding and retaining frame including the combination with a substantially cylindrical socket, of a pair of straight and substantially parallel opposite prongs extending integrally from the lower portion of the socket and having individual longitudinal grooves extending directly from the interior diameter of the socket part way down along the inner mutually facing sides of said prongs and terminating within the latter in a pair of opposite shoulders spaced a distance above the lower ends of said prongs, the transverse distance across both prongs corresponding to the external diameter of said socket and said flat chisel slidably fitting between said longitudinal grooves and approaching toward and receding from said shoulders during operation.

2. In a pipe and rail chipping tool having a

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substantially flat chisel, a guiding and retaining frame for the chisel adapted to be mounted on an air gun for operating said chisel in the frame, said guiding and retaining frame including the combination with a substantially cylindrical socket, of a pair of straight and substantially parallel opposite prongs extending integrally from the lower portion of the socket and having individual longitudinal grooves of substantially rectangular cross section extending directly from the interior diameter of said socket part way down along the inner mutually facing sides of said prongs and terminating within the latter in a pair of opposite shoulders spaced a distance above the lower ends of said prongs, the lower portion of the socket being narrowed to provide internally flat opposite side walls spaced apart the same distance as the width of said rectangular grooves and being contiguous with the two sides in each of the same rectangular grooves,

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the maximum transverse distance from the interior wall of one groove to that of the other groove being equal to and continuous with the internal diameter of said socket and said flat chisel slidably fitting between said longitudinal grooves and the internally flat side walls in the lower portion of said socket and approaching to and receding from said shoulders during operation.

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