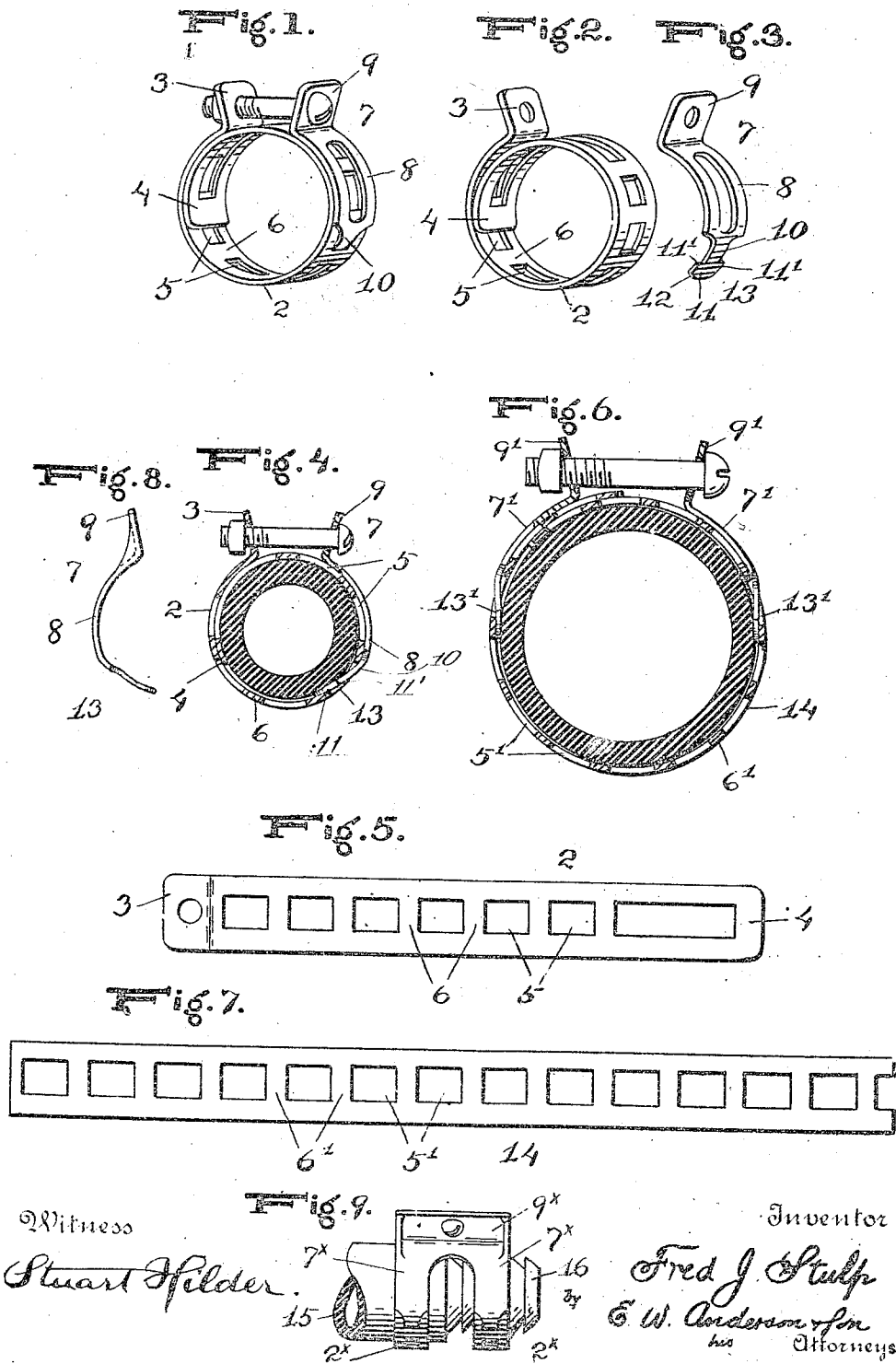


F. J. STULP.
CLAMP FOR HOSE AND THE LIKE.
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1,189,404.

Patented July 4, 1916.



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UNITED STATES PATENT OFFICE.

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CLAMP FOR HOSE AND THE LIKE.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, FRED J. STULP, a citizen of the United States, resident of Muskegon, in the county of Muskegon and State of Michigan, have made a certain new and useful invention in Clamps for Hose and the like; and I declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it appertains to make and use the invention, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 is a perspective view of the invention. Fig. 2 is a similar detail view of the body member. Fig. 3 is a similar detail view of the supplementary member. Fig. 4 is a central longitudinal section of the invention as applied. Fig. 5 is a plan view of the blank for the body member. Fig. 6 is a central longitudinal section of a modification of the invention as applied. Fig. 7 is a plan view of a strip of material forming when cut off in proper length and bent into form the body member of the modification shown in Fig. 6. Fig. 8 is a side view of a supplementary member having a corner reinforcement. Fig. 9 is a side view of a further modification, being a double clamp, as applied to a section of hose, a joint member being also shown.

The invention has relation to hose bands or clamps, and to bands for connecting other tubular or cylindrical structures, having for its object to increase the range of adjustment for different sizes of hose, etc., giving a wider range of usefulness and lessening the sizes to be carried in stock.

The invention consists in the novel construction and combination of parts, as hereinafter set forth.

In the accompanying drawings, illustrating the invention, the numeral 2 designates the body member of the clamp or band, said member consisting usually of a piece of sheet or strap metal, bent into approximately circular form, with one end portion bent radially outward, at 3, and the other end 4 lapping the circular body portion adjacent to the radial bend. This body member is formed with a plurality of short aligned, preferably rectangular perforations or slots 5, extending longitudinally of the band and separated by transverse portions or bars 6 of a length about one-half of that of said slots.

7 designates the supplementary member of the clamp, which is short compared to the body member and consists of an arcuate body 8, concentric with the circular body of the other member, a radially bent end portion 9, corresponding to the radial bend of the other member, and an inwardly turned or bent head 13, composed of a shank or neck 10, of breadth a little less than that of the slots 5, and a terminal T-form head 11, extending laterally at each side of said shank in double hook form, said head being of breadth greater than that of said slots less than that of said member, and a little greater than the diagonal of the slots. The outer edge of said head is slightly arcuate, as at 12.

In inserting the hook end in the slot, one of the lateral hooks 11' is engaged with a corner of the slot 5 with which it is to be engaged, and the supplementary member turned upon this hook as a pivot until the entire hook end is brought within the slot, when the supplementary member is turned into alinement with the body member, to bring the radial extensions of both members opposite each other. The arcuate body of the supplementary member will then bear against the outside of the circular body of the other member, the shank or neck of the supplementary member extending through the slot 5, and the hook-form end of said head bearing against the inside walls of the sides and transverse portions of the body member.

The clamp being engaged with the work or hose, the securing or take-up bolt is engaged with the perforations of the radial extensions of the members, to complete the clamp.

In Figs. 6 and 7 of the drawings a modification of the invention is shown, wherein a band or continuous strip of metal 14 is employed or kept in stock, being cut off in suitable lengths, according to the size of the hose or structure to which the clamp is to be applied. This strip of material is provided with the same slots, designated 5', as the band member in the form of the invention first described, the slots being usually continuous from end to end of the strip and being separated from each other by transverse portions or bars 6'. In this form of the invention there will be a supplementary member 7' employed at each end of the clamp, said supplementary member having at one end a double hook-form head 13', en-

gaging the slots 5' of the other member, and at the other end a perforated lug 9', the take-up bolt engaging the perforations of the lugs of the two supplementary members.

5 In Fig. 9 of the drawings a modification of the invention is shown wherein there are two supplementary members 7* spaced apart from each other, the radial end 9* of the same being unitary and connecting said 10 members, the body member 2* being also in duplicate and spaced apart, the radial end of the body members being likewise unitary and connecting the members in the same manner that the radial end of the supplementary members connects the same. This 15 form of clamp is shown as applied to a section of hose 15, a joint member 16 being used and the other hose section being removed.

20 In Fig. 8, a supplementary member is shown, having a corner reinforcement α , the same reinforcement being useful with the body member.

What I claim is:

25 1. A clamp for hose and the like, comprising a body member having a series of slots and a series of bars between said slots, and a

supplementary member having at one end a neck and a laterally spread hook-form head of less breadth than that of said body member, said head having detachable engagement with said body member within any one of said slots. 30

2. A clamp for hose and the like, comprising a body member having a series of slots 35 and a series of bars between said slots, and a supplementary member having at one end a neck and a laterally spread double-hook-form head, said head and said neck being in substantially the same plane and having interrupted lateral surfaces throughout, said 40 supplementary member having a single slight obtuse-angle bend at the joint between the same and said neck, the hook-form head being of less breadth than that of the supplementary member and having detachable engagement with the body member within any one of said slots. 45

In testimony whereof I affix my signature, in presence of two witnesses.

FRED J. STULP.

Witnesses:

MAX LANGE.

IDA C. DANIELSON.