G. W. FROSS.

HOD.

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957,604. Patented May 10, 1910.

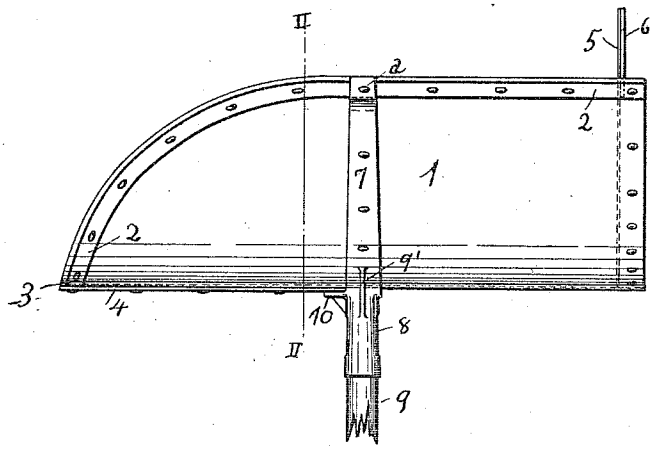

Fig. I

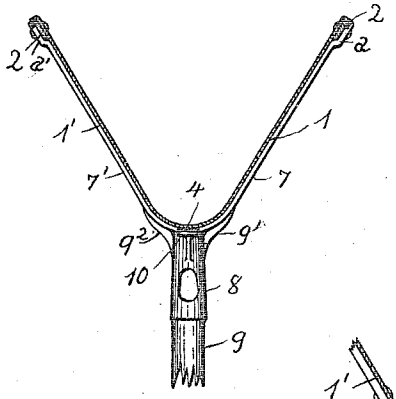

Fig. II

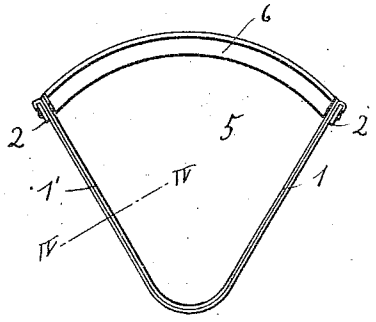

Fig. III

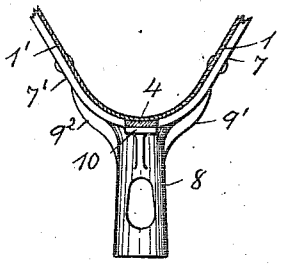

Fig. IV

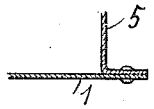

Fig. V

Witnesses:
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UNITED STATES PATENT OFFICE.

GEORGE W. FROSS, OF CLEVELAND, OHIO.

HOD.

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To all whom it may concern:

Be it known that I, GEORGE W. FROSS, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented some certain new and useful Improvements in Hods; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same.

My invention relates to improvements in hods; the object of the invention is to improve the construction of hods increasing the strength and durability and to render them capable of being made economically.

The invention consists in the construction and the novel combination and arrangement of the parts and the manner of reinforcing a hod and constructing it as a whole, all of which will be hereinafter fully set forth and claimed.

In the drawings, Figure I is a view in side elevation of a hod constructed in accordance with my invention. Fig. I is a vertical cross-section taken through a hod illustrating the manner of reinforcing the sides thereof. This figure also illustrates the manner of securing the handle and its forks to the hod and the method of constructing a fork. Fig. III is a vertical sectional view taken through the rear portion of the hod showing more clearly the manner in which the back is reinforced. Fig. IV. is an enlarged segmental view of the lower portion of the hod fork and its ferrule showing it attached to the hod body. Fig. V, illustrates the manner in which the back is secured to the sides.

In setting forth this invention I am aware that sheet metal or plate metal hods have heretofore been constructed and have been reinforced at the upper portion of the body edges, at the sides and at the back, and hence do not lay claim to this broadly, however the manner in which the hod is constructed as a whole, the method of reinforcing the same, and the method of attaching the handle fork, and the construction of the handle fork are the special features of this invention.

In the drawings 1, 1′, represent the sides of the hod body which are constructed of a single piece of metal with a curved lower portion. These side pieces 1, 1′, are bent from the bottom as shown in Figs. II and III, and are thence turned over at their upper edge portion, embracing a metallic reinforcing element 2, the same being continuous from the back of the body of the hod down to the mouth of the same, and thence around the mouth and to the back of the hod side on the opposite side. The metal of the sides 1, 1′, at the upper edge embracing the reinforcing element 2. This reinforcing element may also be riveted, and is preferably riveted to the sides as illustrated, and preferably, with countersunk or flush rivets; the other kind, or headed rivets being shown in the drawings more for the sake of clearness. As a matter of fact, I prefer to employ countersunk or flush rivets in the entire construction wherever rivets are employed.

Extending from the mouth at its lower portion as at 3, I also employ the reinforcing metallic element 4, which extends from the lower lip portion 3, on the under side of the hod, reinforcing the hod at this portion and protecting it from buckling when the same is pounded to release the hod from its contents. This reinforcing portion 4, is preferably riveted with flush rivets, as suggested in Fig. I, of the drawings. The back of the hod is flanged outwardly as illustrated in Figs. I, and V, and is secured to the sides 1, 1′, by means of flush rivets, thus leaving two thicknesses of metal at this portion of the hod. This back 5, is turned over in a similar manner at its upper edge to that shown in Figs. I, II, and III, and embracing a curved metallic reinforcing element 6. It will thus be seen that the body of the hod as a whole is strengthened at its sides and its exposed edges and at its back at the upper portion, a smoothed edge and a finished appearance is given to the hod body.

The construction of the fork in which the hod body is supported on the handle is as follows: 7, 7′, represent two arms extending from the ferrule 8, the ferrule being made with a recess for the reception of the handle 9, see Fig. II. These arms 7, 7′, are preferably constructed as part of the ferrule 8, and having reinforcing fillets $9'$ 9^2 at the point of connection with said ferrule. At the upper ends of the arms 7, 7′, they are offset as shown at *a*, *a′*, causing the upper ends to embrace the reinforcing element at the side of the body of the hod, thus strengthening the structure as a whole.

Extending forward and toward the mouth

of the hod and formed in part with the ferrule is an extension lug 10, upon which rests the reinforcing element at this portion, and forming a stay or backing for said element, strengthening the body as a whole.

By a construction made in accordance with this invention, it will be seen that I have constructed a symmetrical, convenient, cheap and strong hod, and one which will not buckle but will retain its shape indefinitely; and in setting the same forth in the drawings and specifications, I do not wish to be limited to the exact details of the construction, as they may be varied without departing from the invention.

What I claim is:

A hod comprising body and back portions furnished with flat reinforcing elements secured to said body and overlapped by the upper edge of the body portions; a supporting fork and a reinforcing element underneath said body engaging the reinforcement aforesaid and extending underneath the hod body from the mouth to the fork in combination with said fork and a bracket 10, secured to the said fork for the supporting of the reinforcing element underneath the fore part of body of the hod.

Signed at Cleveland in the county of Cuyahoga and State of Ohio, this 7th day of April 1909.

GEORGE W. FROSS.

Witnesses:
ALLISON M. GIBBONS,
FRANK C. GREGG.