

(No Model.)

D. MACDONALD.  
PAIL EAR.

No. 581,483.

Patented Apr. 27, 1897.

*Fig. 1*

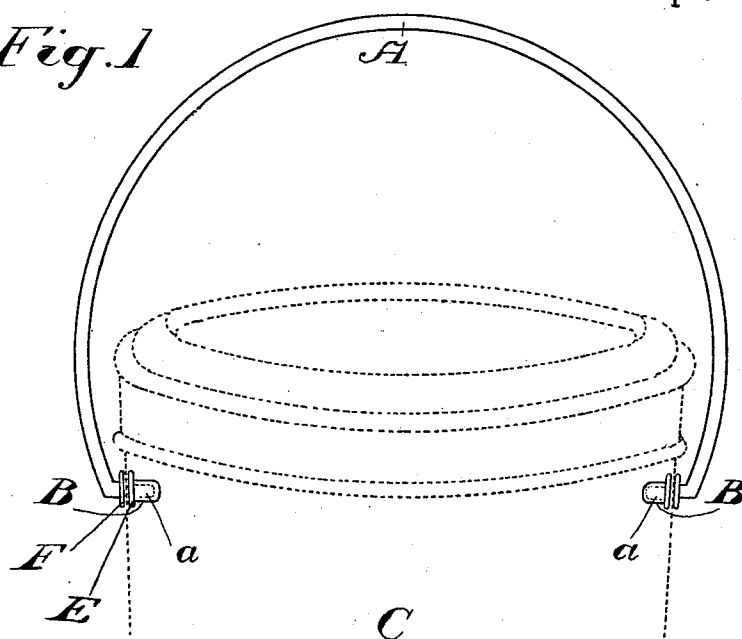


*Fig. 2*

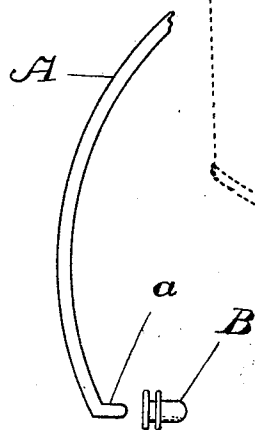
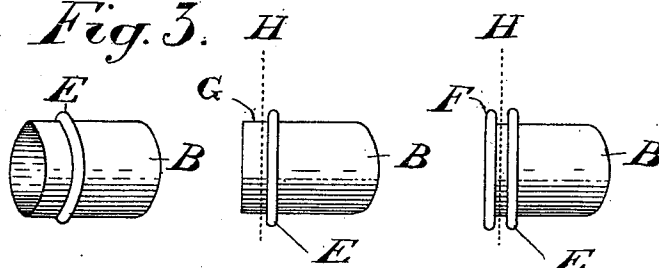


*Fig. 3.*



*Witnesses.*

*Wm. H. Ruff  
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By - Ridout & Maybee.  
Atty's*

# UNITED STATES PATENT OFFICE.

DAVID MACDONALD, OF TORONTO, CANADA, ASSIGNOR OF ONE-HALF TO  
WILLIAM TASSIE TASSIE, OF SAME PLACE.

## PAIL-EAR.

SPECIFICATION forming part of Letters Patent No. 581,483, dated April 27, 1897.

Application filed September 21, 1896. Serial No. 606,544. (No model.) Patented in Canada August 6, 1894, No. 46,757.

*To all whom it may concern:*

Be it known that I, DAVID MACDONALD, manufacturer, of the city of Toronto, in the county of York and Province of Ontario, Canada, have invented a certain new and Improved Pail-Ear, (for which I have obtained a patent in Canada, No. 46,757, dated August 6, 1894,) of which the following is a full, clear, and exact description.

The object of the invention is to make a pail having thimble-sockets into which a spring-handle may be sprung and from which it may readily be detached; and it consists, essentially, in suitably attaching thimble-sockets to the pail, which are adapted to receive the bent ends of the spring-handle, where it remains until taken out.

Figure 1 is a perspective view of a pail with handle in place. Fig. 2 is a detail view showing part of the wire handle in position to be placed in a thimble-socket. Fig. 3 represents different views of thimble-socket.

In the drawings like letters of reference indicate corresponding parts in the different figures.

In Fig. 1, A is the wire handle. B B are the thimble-sockets in place, into which the bent ends *a* of the wire handle are placed. C is the body of the pail.

In Fig. 2, A is part of the handle with bent end *a* about to enter the thimble B.

In Fig. 3, B is the thimble-socket, showing the progressive stages for placing it in the body of the pail, and E is the first shoulder of the said socket, and is on the inside of the pail when the thimble-socket is in position. F is the second shoulder of the said socket, and is on the outside of the pail when the thimble-socket is in position, and is formed by pressing down the neck G of the thimble with a die. H is a line representing the body of the pail which lies between the first and second shoulder of the socket.

In making the pail the body C is cut out with a section-die to the required size, the seams folded and formed, and the bottom put on like an ordinary pail, when it is ready for the handle. The thimble-socket B is preferably formed out of copper with a steel die and

is pressed into a hole in the body made with a punch in the usual place where handles are fitted on, as represented in Fig. 1, and it fits so closely that the contents of the pail cannot escape. The bent ends *a* of the handle are then put in the thimble-sockets, as represented in Fig. 1, and may be removed therefrom by springing the handle outwardly.

I am aware that it is old to attach a bail to a vessel by means of a sheet-metal attachment like that shown in United States Patent No. 458,352, but I regard my invention as materially and essentially different therefrom, inasmuch as my thimble-socket is made of one piece of metal with its inner end closed and its outer end formed with a flange which is turned over the edge of the pail or bucket. There are thus no projections on the outside of the pail and there can be no leakage whatever from the inside, as the said thimble-socket has its inner end closed.

What I claim as my invention is—

1. A pail-ear comprising a thimble-socket closed at its inner end and open at its outer end when in place, and formed from a single blank, having a shoulder thereon designed to bear against the inner face of the pail, and a flange formed by turning over the outer edge, which grips the outer face of the pail and is substantially flush therewith, substantially as described and for the purpose specified.

2. A pail or bucket having on two of its sides an ear comprising a thimble-socket closed at its inner end and open at its outer end when in place, and formed from a single blank, having a shoulder thereon designed to bear against the inner face of the pail, and a flange formed by turning over the outer edge, which grips the outer face of the pail and is substantially flush therewith, and a bail or handle having its ends entering the flanged ends of said thimble-sockets, substantially as described and for the purpose specified.

Toronto, September 11, 1896.

DAVID MACDONALD.

In presence of—

A. M. NEFF,  
FREDK. CLARKE.