

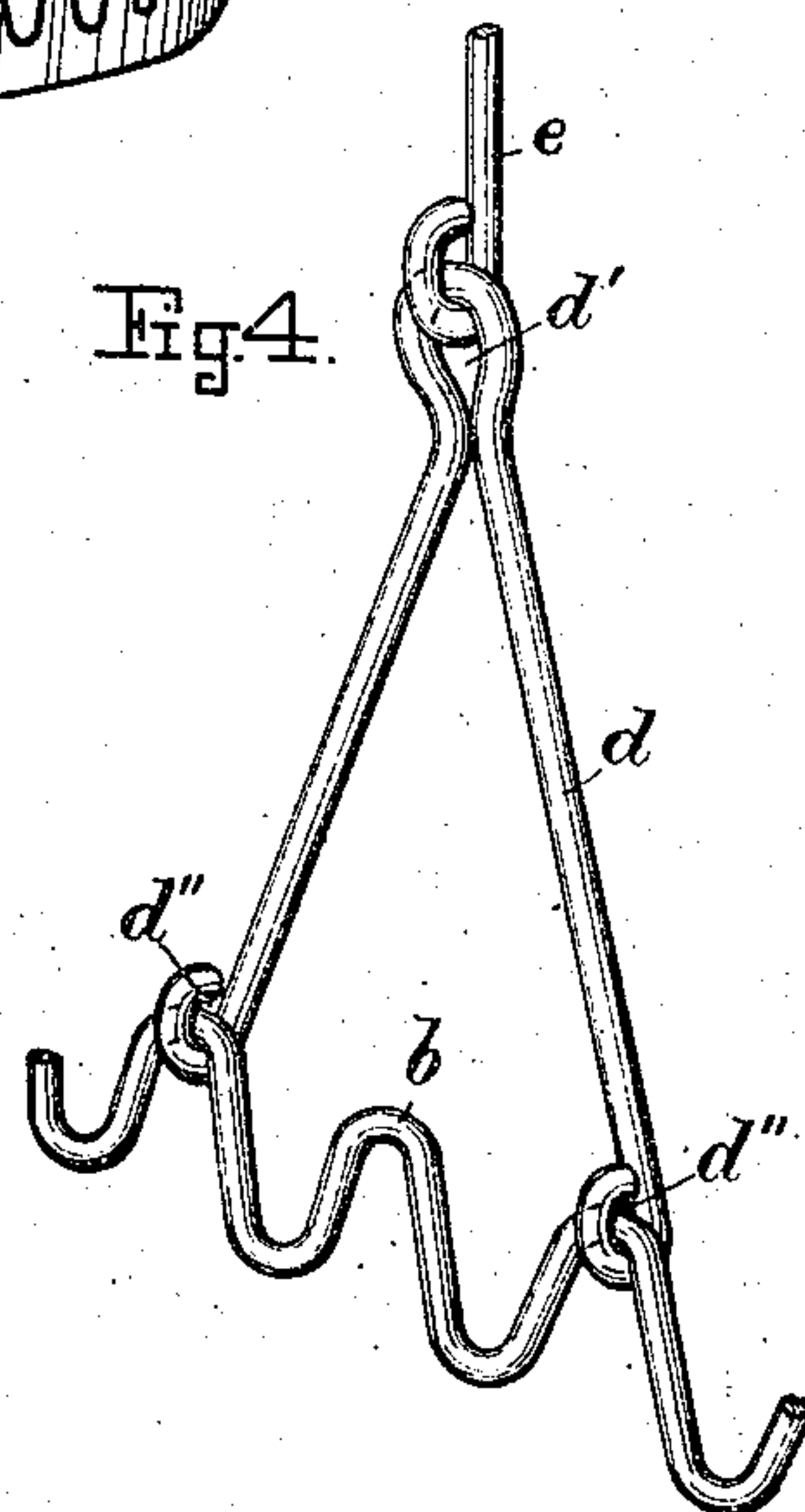
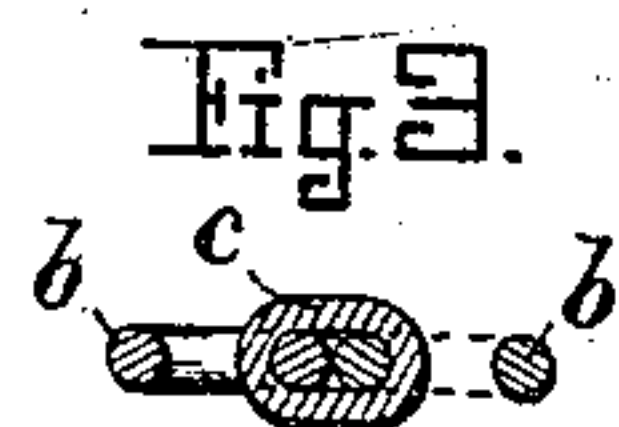
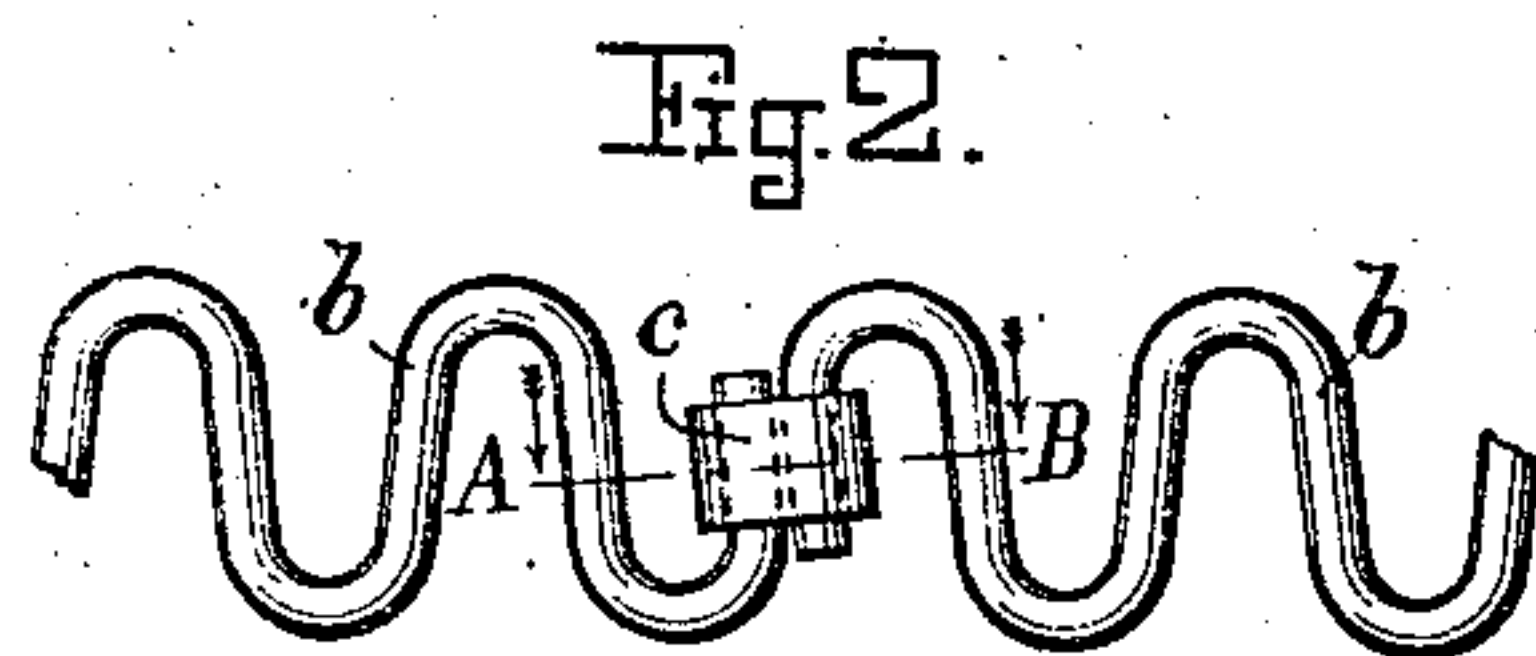
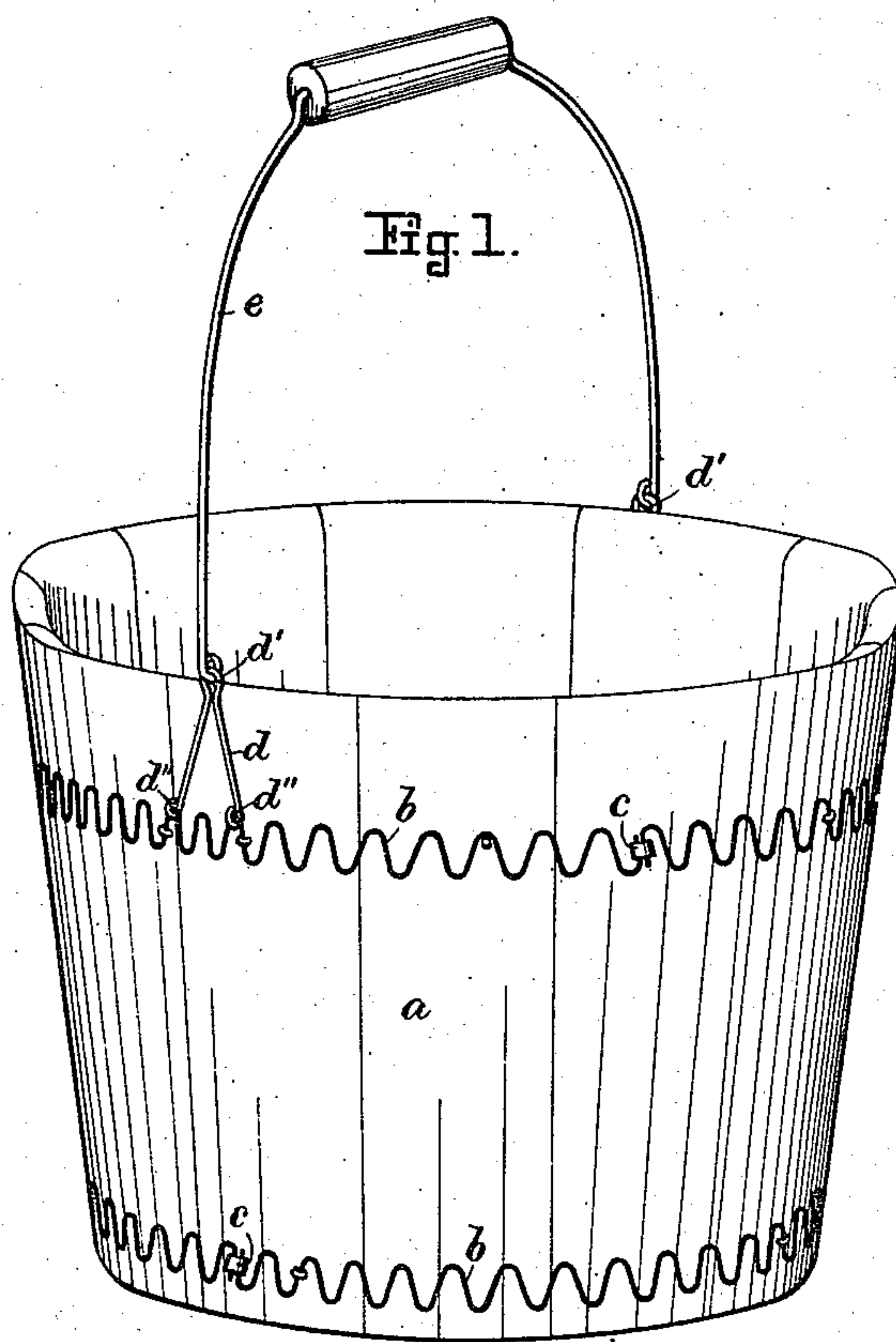
(No Model.)

G. SOUTHER.

HOOP FOR BARRELS, PAILS, OR TUBS.

No. 379,997.

Patented Mar. 27, 1888.



Witnesses

Henry Chadbourne.
Herbert S. Chapin.

Inventor

George Southern.
by *Wm. Andrew*
his atty.

UNITED STATES PATENT OFFICE.

GEORGE SOUTHER, OF BOSTON, MASSACHUSETTS.

HOOP FOR BARRELS, PAILS, OR TUBS.

SPECIFICATION forming part of Letters Patent No. 379,997, dated March 27, 1888.

Application filed February 3, 1888. Serial No. 262,947. (No model.)

To all whom it may concern:

Be it known that I, GEORGE SOUTHER, a citizen of the United States, and a resident of Boston, in the county of Suffolk and State of Massachusetts, have invented new and useful Improvements in Hoops for Barrels, Pails, or Tubs, of which the following, taken in connection with the accompanying drawings, is a specification.

This invention relates to improvements on the patent granted to Adolph Eiselein, dated September 9, 1879, No. 219,351, for wire barrel-hoops; and it consists in a device for securing the ends of corrugated wire hoops together, and also in the combination, with a corrugated wire hoop, of a wire bail-hinge, as will hereinafter be more fully shown and described, reference being had to the accompanying drawings, wherein—

Figure 1 represents a perspective view of a pail provided with my improved device for fastening the ends of the corrugated wire hoop together and the improved wire bail-hinges. Fig. 2 represents a detail side view of a corrugated wire hoop and its fastening device. Fig. 3 represents a cross section on the line A B, shown in Fig. 2; and Fig. 4 represents a detail view of the improved wire bail-hinge.

Similar letters refer to similar parts wherever they occur on the different parts of the drawings.

In the drawings, Fig. 1, *a* represents a pail, as usual, and *b b* represent corrugated wire hoops of the form and construction as shown and described in the patent to Eiselein above mentioned, and I wish to state that I do not claim as my invention such corrugated wire hoops.

In making such corrugated wire hoops they are cut off to the required length, according to the size of the pail or other similar article for which they are intended, after which the ends of each such hoop are secured together by means of the flattened tube *c*, as shown in Figs. 1, 2, and 3—that is, the tube is slipped over the bent ends of the corrugated wire hoop.

It will be noticed that the ends of the cor-

rugated wire hoop, where they enter the flattened tube *c*, are inclined to the perpendicular, thus causing the fastening-tube *c* to be held firmly connected to such inclined ends of the corrugated hoop-wire without any liability of slipping off therefrom, as the hoop is expanded when driven. In fact, the more the wire hoop is expanded the more will the flattened tube grip or hold on to the inclined ends of the said wire hoop. In connection with the upper of said corrugated wire hoops *b*, I use an improved wire bail-hinge, as shown in Figs. 1 and 4, that consists of a bent wire, *d*, doubled upon itself in its upper end, and there provided with an eye or loop, *d'*, adapted to receive the lower ends of the bail *e*, as shown. The lower ends of the bail-hinge wire *d* have eyes or loops *d'' d''*, adapted to encircle the upper curves of the corrugated hoop *b*, as shown in Figs. 1 and 4, and by this arrangement I dispense with the usual plates riveted to the pail or other receptacle *a*, thus effecting a simple, strong, and durable connection between the curved bail *e* and the upper hoop, *b*, as shown.

What I wish to secure by Letters Patent and claim is—

1. In combination with the corrugated wire *b* and its inclined ends, the flattened tubes *c*, securing the ends of said corrugated wire hoop together, substantially as set forth.

2. The pail *a*, or other receptacle, and its corrugated wire hoop *b*, combined with the bail-hinge wire *d*, having an eye or loop, *d'*, in its upper end engaging the lower end of the bail-wire *e*, and having eyes or loops *d'' d''* in its lower end hinged to the corrugated hoop-wire *b*, substantially as and for the purpose set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 23d day of January, A. D. 1888.

GEORGE SOUTHER.

Witnesses:

ALBAN ANDRÉN,
HENRY CHADBURN.