

No. 636,735.

Patented Nov. 7, 1899.

E. E. DAVENPORT.
SCOOP.

(Application filed Sept. 7, 1899.)

(No Model.)

Fig. 1.

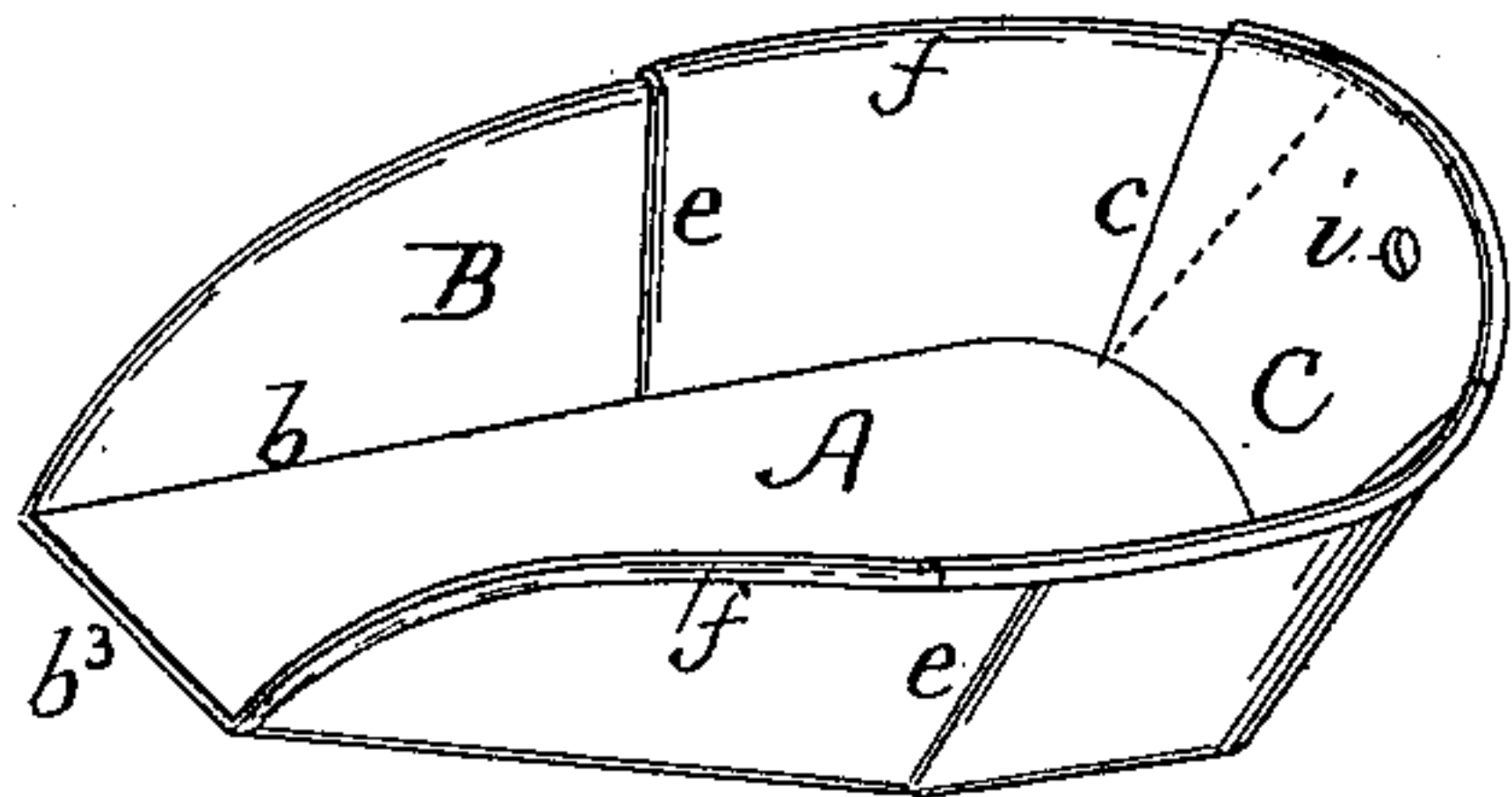


Fig. 2.

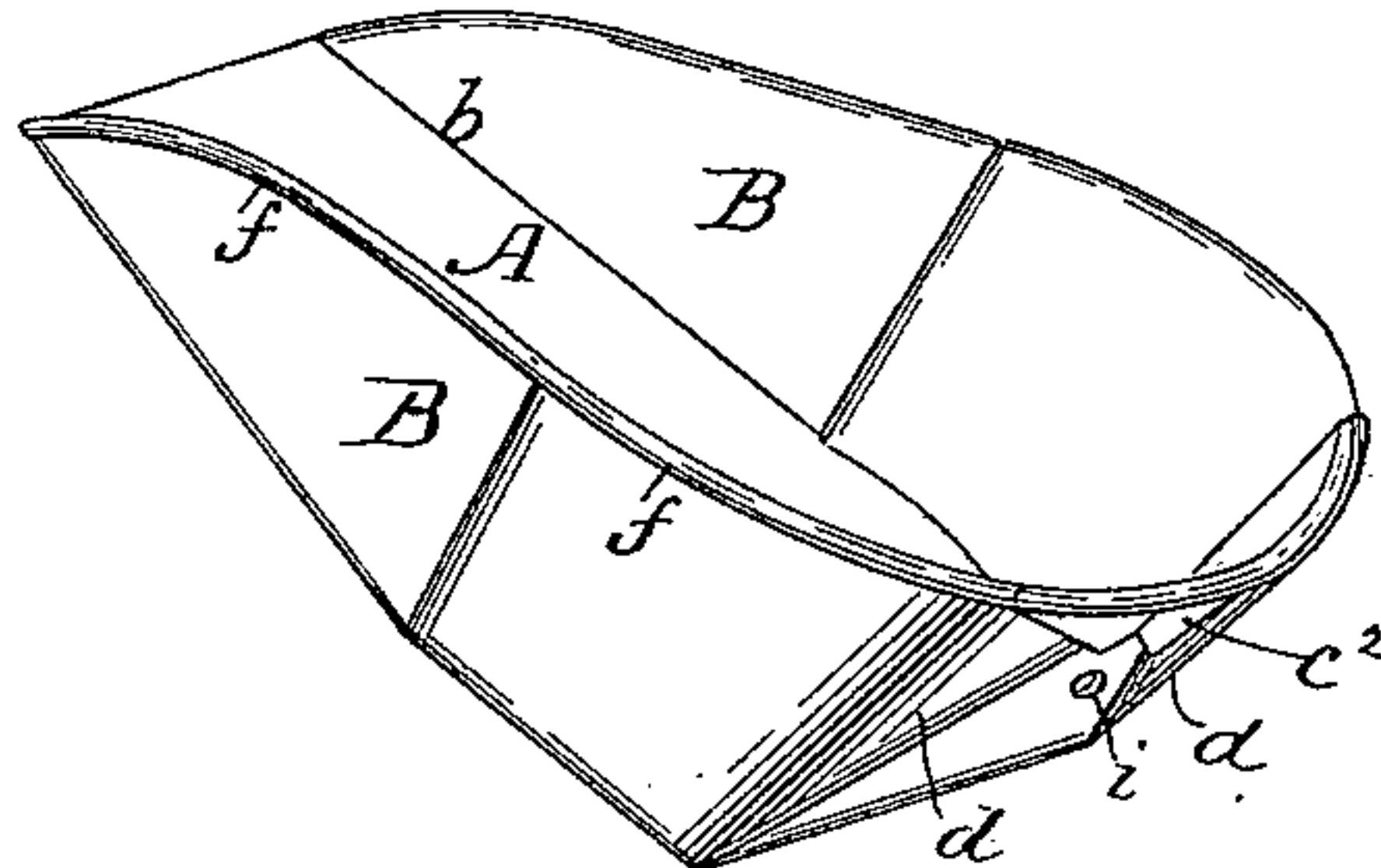


Fig. 3.

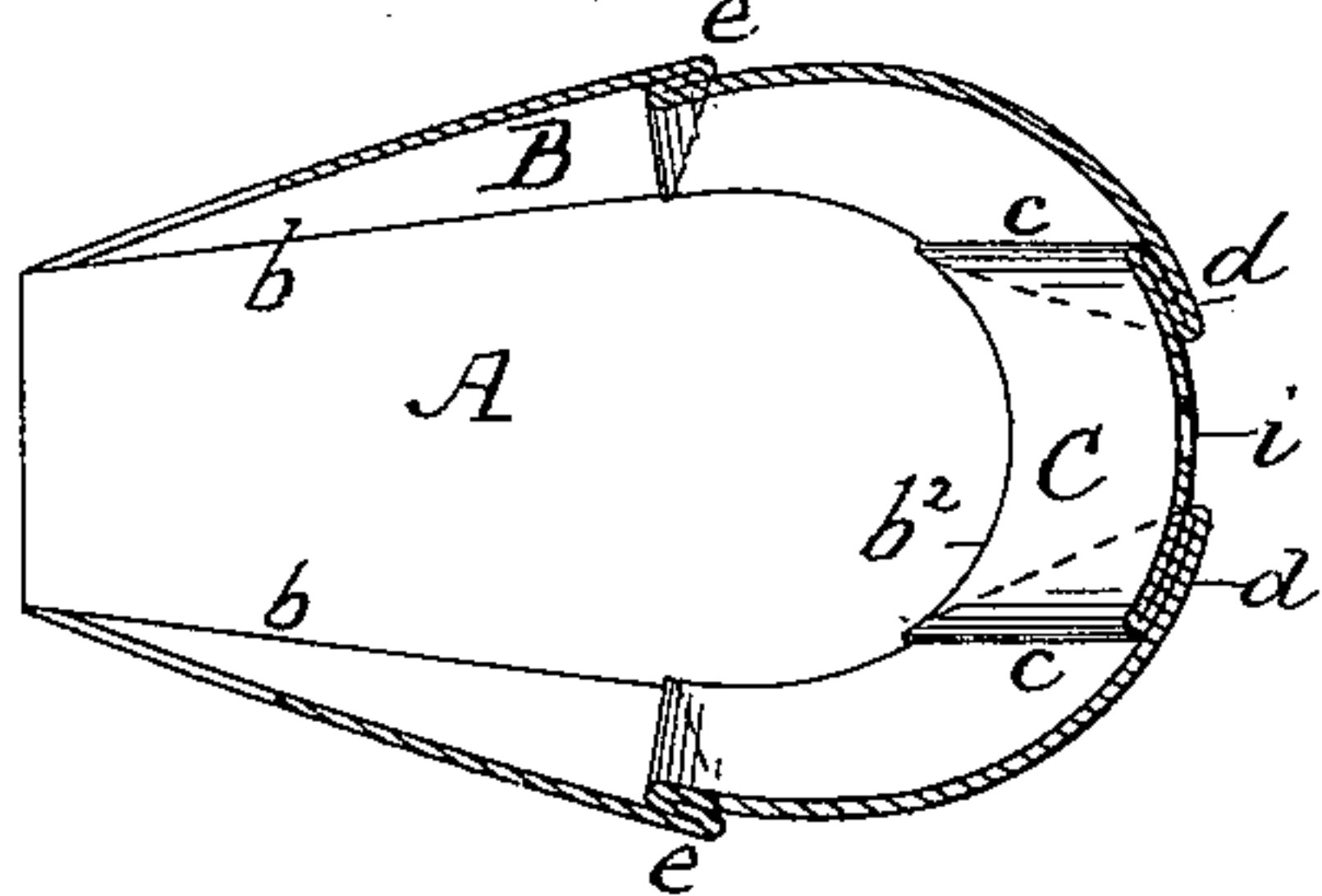


Fig. 4.

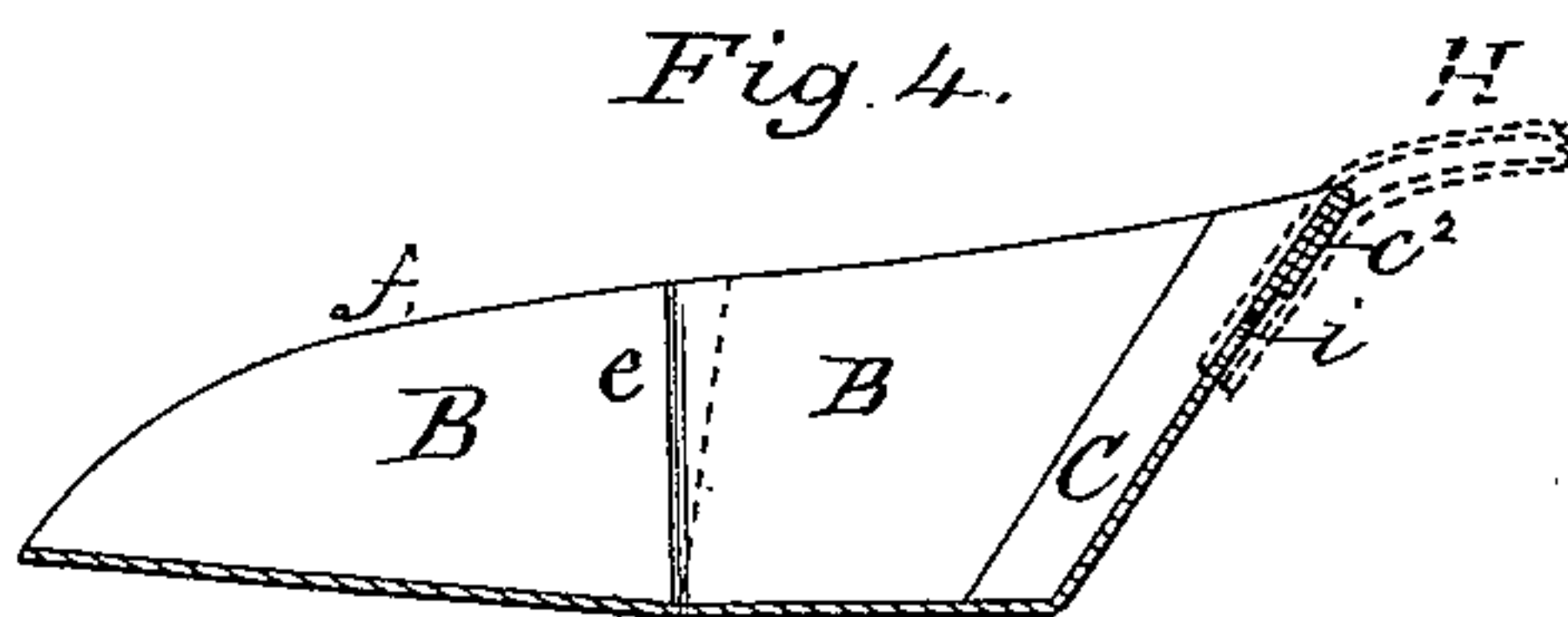


Fig. 6.

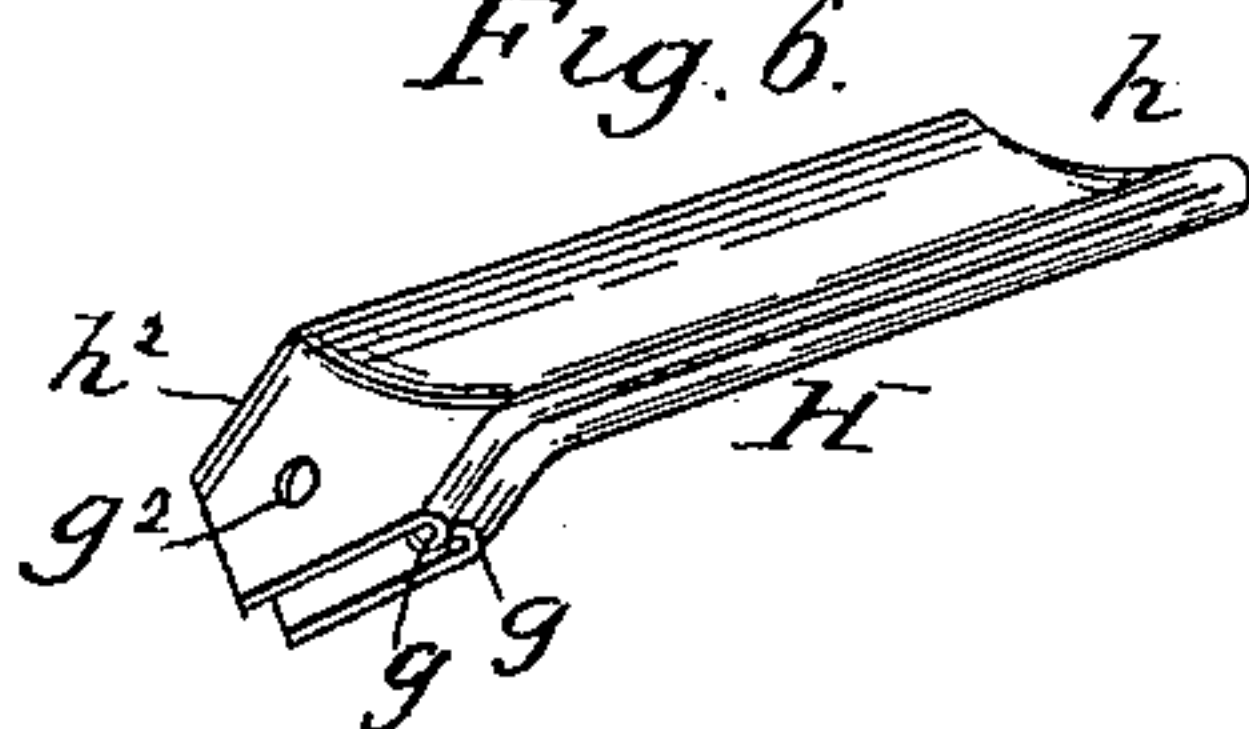
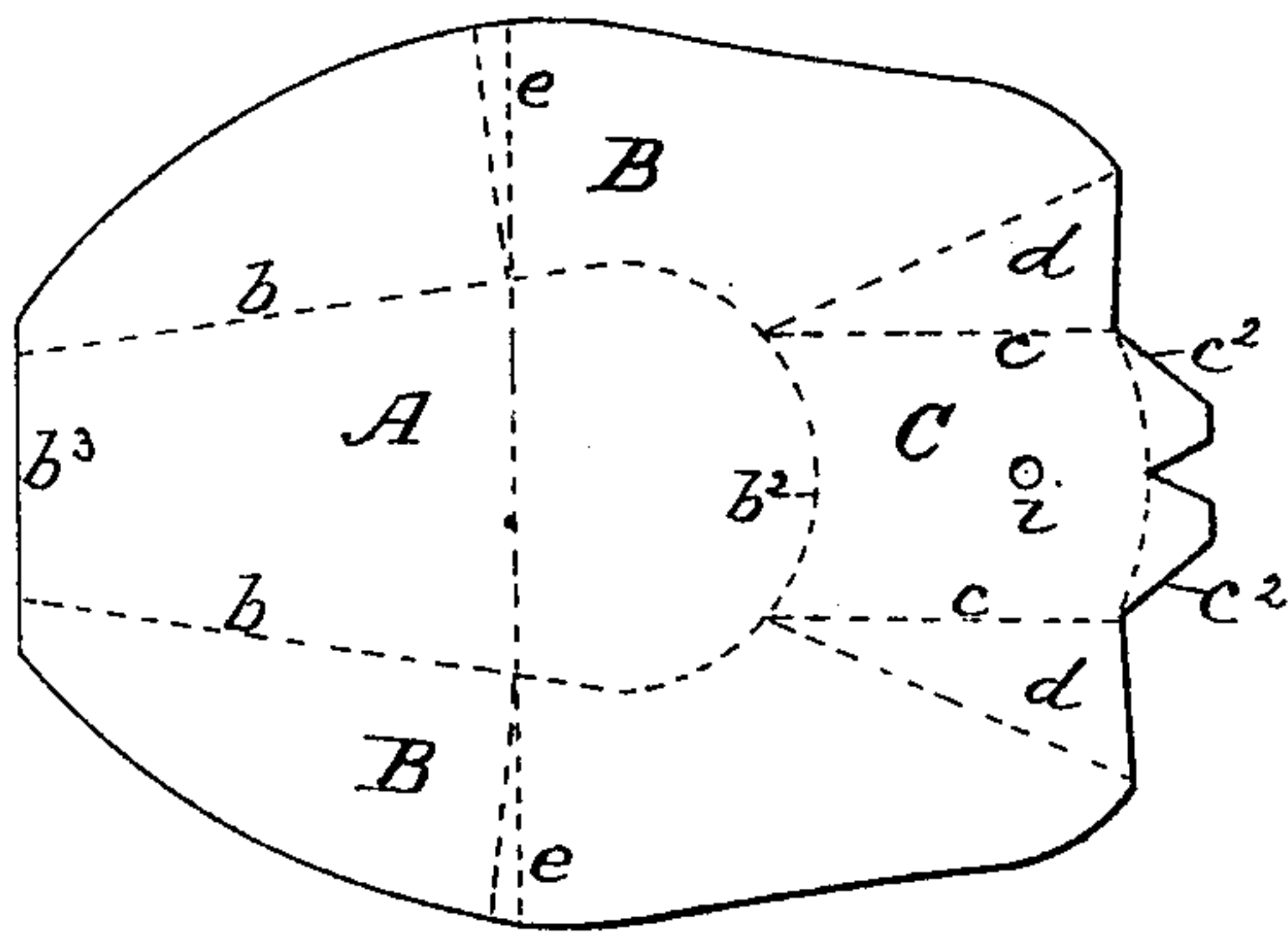


Fig. 5.



WITNESSES

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SCOOP.

SPECIFICATION forming part of Letters Patent No. 636,735, dated November 7, 1899.

Application filed September 7, 1899. Serial No. 729,730. (No model.)

To all whom it may concern:

Be it known that I, ELMER E. DAVENPORT, a citizen of the United States, residing at Baraboo, in the county of Sauk and State of Wisconsin, have invented certain new and useful Improvements in Scoops, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to an improved mode of constructing sheet-metal scoops.

The objects of my invention are to obtain from a single sheet of metal a flat-bottom scoop having the front end elevated above the rear portion of said flat bottom, the back end curved and reinforced on each side of its axial line by two triangular folds of the metal flattened against the rear of said back end, and each side also reinforced and stiffened by a triangular fold of the metal against the side, said construction producing a flat-bottom scoop which does not require the use of solder, but is properly reinforced at the points most needed. The scoop is also provided with a handle of thin sheet metal folded upon itself and having its edges bent inwardly and doubled toward each other and so retained without solder, a rivet completing its connection with the body of the scoop. I attain these objects by the construction illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view taken from the front of a scoop constructed in accordance with my invention. Fig. 2 is a rear perspective view of the same. Fig. 3 is a horizontal section of the same, taken about the height of the rivet-hole. Fig. 4 is a central vertical section of the same. Fig. 5 is a top view of the sheet-metal blank cut in the proper shape to form the body of the scoop, the dotted lines indicating also where the blank is to be bent and parts to be folded upon itself. Fig. 6 is a perspective view of the preferred form of handle to be used in connection with the body of a small size scoop constructed with my invention.

In said drawings the body of the scoop consists of a piece of sheet metal bent to form four portions without seams between them.

The central portion A constitutes the bottom of the shovel. It is bent on two lines b , which are nearly parallel and are connected at their rear end by a semicircular line b^2 ,

while the front edge is on a line b^3 nearly at right angles to the side lines b . The sides B are tapering toward the front and are connected on lines c with the back portion C. The two lines c are parallel to each other and have their inner ends abutting on the curved line b^2 ; but the rear end of the back portion C has two ears c^2 , which are to be bent rearwardly upon the rear edges of triangular folds d , made alongside of the lines c . Said folds are of suitable size to give a rearward inclination to the back portion of the shovel, which becomes thereby greatly strengthened and stiffened. To give an upturned inclination to the front half of the bottom A, a narrow triangular fold e is made in each side B about the middle of its length, and said fold strengthens and stiffens said sides. While constructing the shovel, the edge of each side B is turned over outwardly to double the thickness of the metal at f the whole length of said edge, and thus stiffen it. The whole scoop provided with doubled-over and folded triangular portions in the side and back is thus obtained without the necessity of any soldering.

Small size scoops thus produced are provided with a handle H, (shown detached in Fig. 6,) in which a narrow strip of thin sheet metal has its long edges first bent over at g toward its body, and then said strip is bent over and folded at h half-way of its length and slightly concaved, and its ends are bent down at h^2 correspondingly with the inclination of the back portion C of the shovel. Said ends are to embrace the folded upper edge of the back portion C and its ears c^2 . Perforations g^2 , made in the bent-down portion of the handle, and a perforation i , made in the back portion C of the shovel, are to receive a rivet to complete the union of the handle to the body of the shovel.

The body of the scoop, if made of large size, may be provided with a handle constructed as usual with a cylindrical body.

Having now fully described my invention, I claim—

1. A scoop having its body constructed out of a single piece of sheet metal and having a flat bottom, sides wholly connected with said bottom and a back portion connected with said bottom and with said sides, triangular

portions uniting said back and sides, said triangular portions being folded in the rear of the back portion, substantially as described.

2. A scoop having its body constructed out of a single piece of sheet metal and having a flat bottom having its front end elevated above the rear portion, sides connected with said bottom and having triangular portions folded against said sides, and a back portion having triangular folds against its rear, and ears folded over said triangular folds substantially as described.

3. The combination of the body of a scoop

constructed out of a single piece of sheet metal and having a flat bottom, sides, and a back portion with a handle consisting of a strip of thin sheet metal having its long edges bent over and its body bent half-way of its length bringing said bent-over edges in contact with each other, substantially as described.

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

ELMER E. DAVENPORT.

Witnesses:

J. W. GLUSILNI,
GEO. W. SPRINGER.