

(Model.)

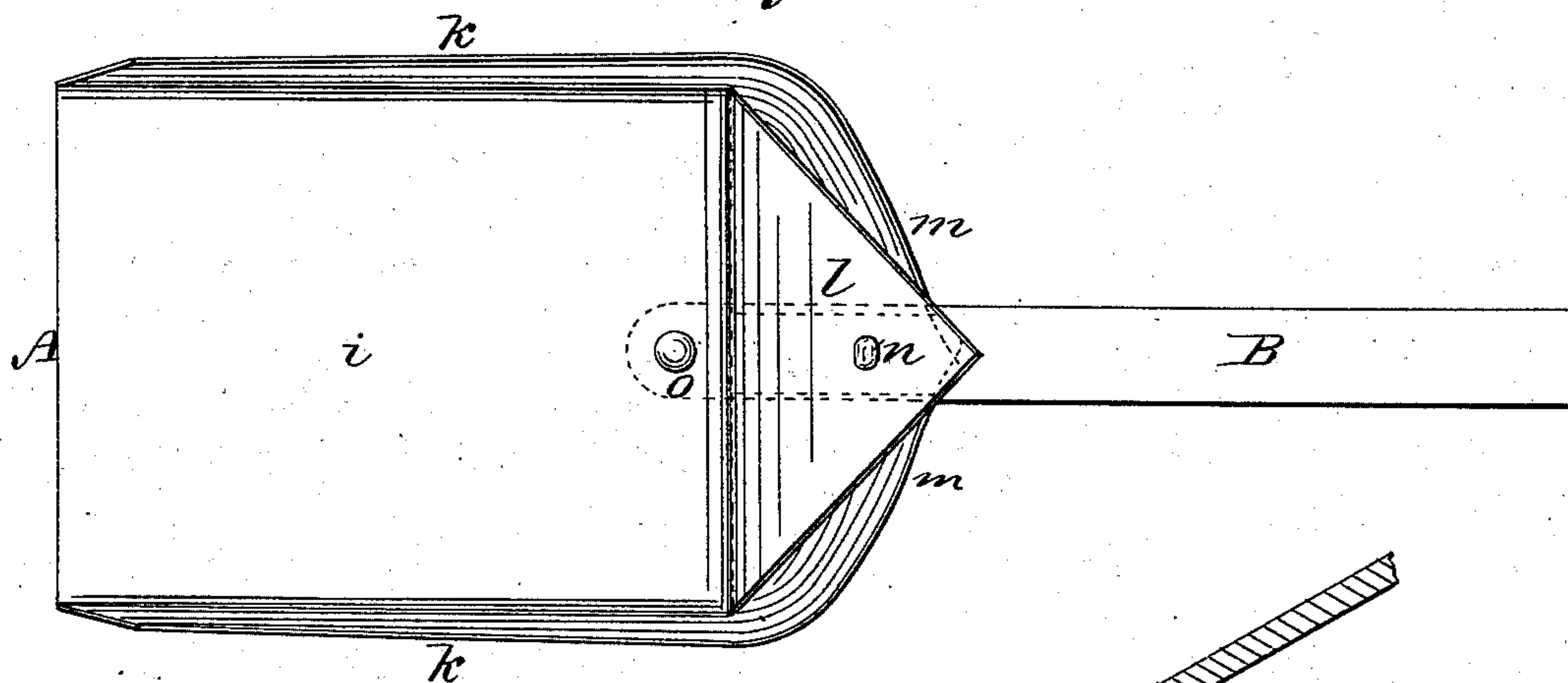
C. K. EDWARDS.

SHOVEL.

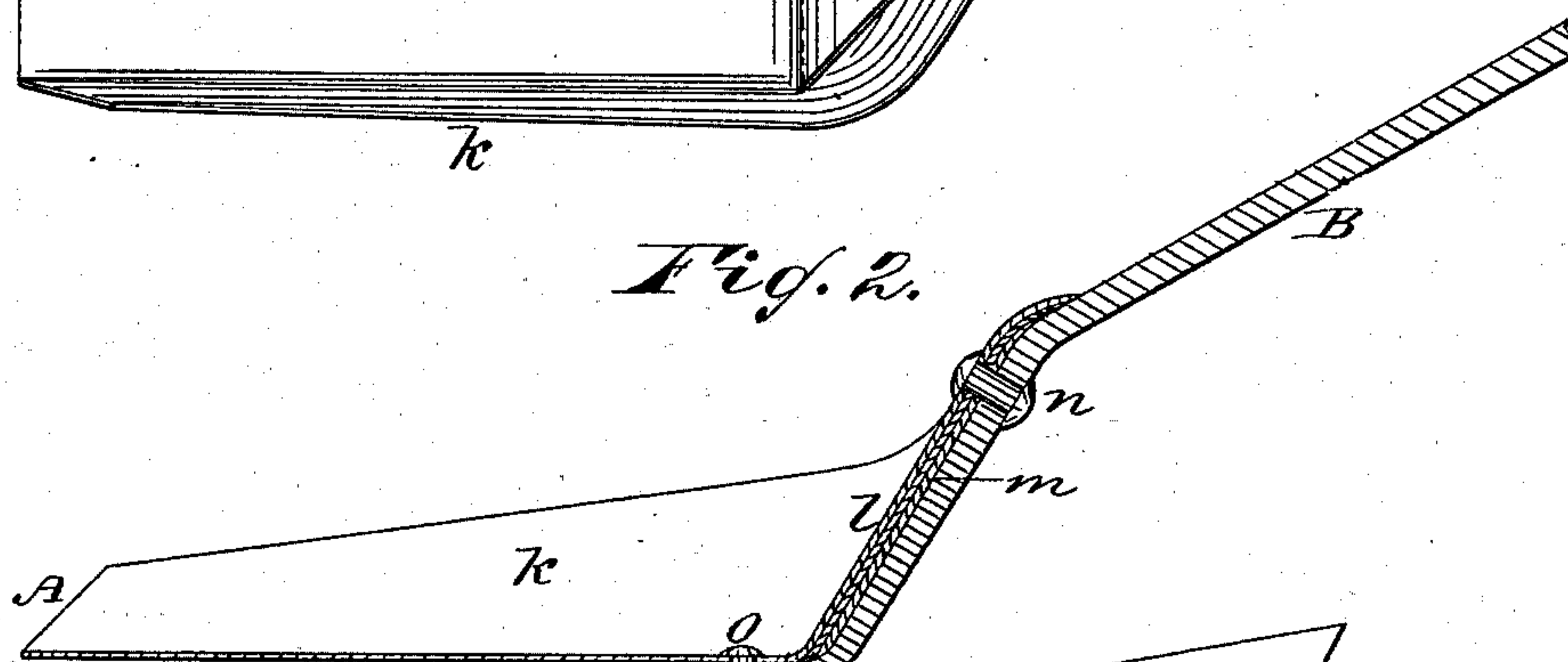
No. 283,086.

Patented Aug. 14, 1883.

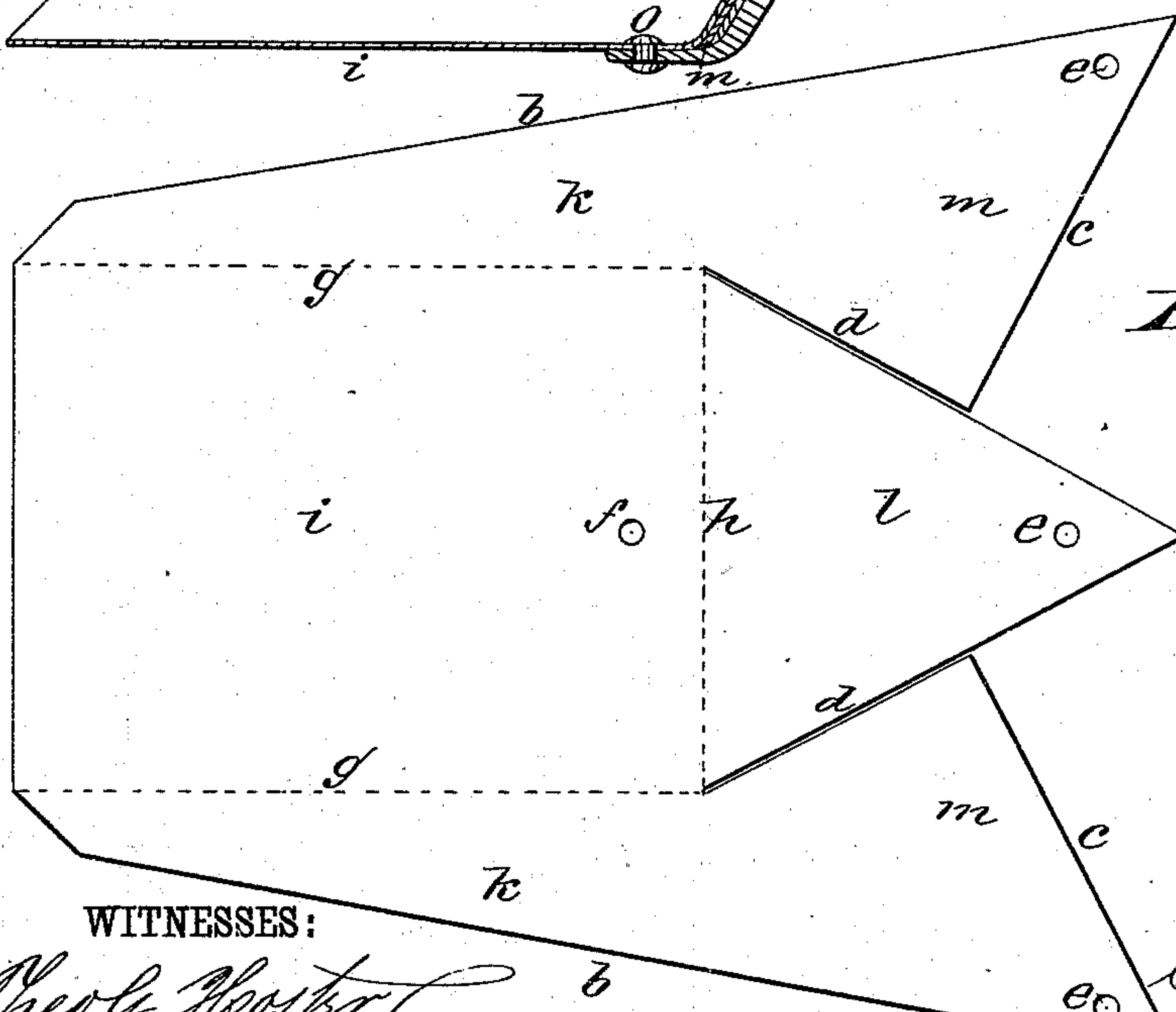
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



WITNESSES:

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# UNITED STATES PATENT OFFICE.

CRAIG K. EDWARDS, OF BOSTON, MASSACHUSETTS.

## SHOVEL.

SPECIFICATION forming part of Letters Patent No. 283,086, dated August 14, 1883.

Application filed June 4, 1883. (Model.)

*To all whom it may concern:*

Be it known that I, CRAIG K. EDWARDS, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Shovels, of which the following is a full, clear, and exact description.

This invention more particularly relates to shovels such as are used in houses and stores for supplying or replenishing stoves with coal; and it consists in a novel construction of the sheet-metal-scoop portion of the shovel and blank from which the same is formed, whereby said scoop portion, made from one piece of metal, has its raised back or back end of double thickness, thus adding greatly to the strength and durability of the shovel. Ordinarily said shovel, or rather its scoop or body portion, will be made of sheet-iron; but it may be made of any other suitable sheet metal and of any desired size; nor is the improved shovel restricted to shoveling coal only, but it may be used for any purpose for which, as a scoop or shovel, it is adapted.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 represents a top view of a shovel constructed in accordance with my invention, and showing the handle only in part. Fig. 2 is a central longitudinal section of the same in a plane at right angles to the plane of the scoop or blade of the shovel; and Fig. 3 is a face view of the blank from which the scoop or blade portion of the shovel is made before the same is bent to form the sides and raised back of said scoop portion.

A in Figs. 1 and 2 is the scoop or blade of the shovel, and B its handle. The scoop A is made from a sheet-metal blank such as shown in Fig. 3—that is, a blank having diverging side edges, *b b*, in a backward direction, rear end edges, *c c*, converging toward one another in a forward direction and meeting a central V or like shaped backward extension pro-

longed in a forward or inward direction by cuts *d d*. Said blank also has holes *e e e* and *f* made in it, the use of which will be hereinafter explained. The blank is struck up or bent in the directions and where indicated by the dotted lines *g g h* in Fig. 3, to form, as more clearly shown in Figs. 1 and 2, the bottom *i* of the scoop A of the shovel, its sides *k k*, an advance raised back piece or flap, *l*, and rear raised back pieces or flaps, *m m*, which latter overlap one another parallel with their margins *c c*, back of the advance raised back piece or flap, *l*, thus forming three thicknesses of metal where the flaps *m m* overlap, and giving a double thickness to the raised back or back end of the scoop throughout the remainder or main portion of the front flap, *l*. This construction and arrangement of the parts brings the three holes *e e e* in line with one another for securing the handle B to the raised back by a rivet, *n*, which also serves to unite the several back flaps together, and the remaining hole, *f*, serves for reception of a rivet, *o*, to unite the handle with the bottom *i*.

A shovel having the raised back-end portion of its scoop thus re-enforced will have its strength and durability largely increased.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A shovel having its body formed of the bottom *i*, the sides *k k*, separated therefrom by the lines *g g*, the median back flap, *l*, separated from said bottom by line *h*, and the side flaps, *m m*, separated from flap *l* by lines *d d*, said flaps being thus adapted to interlap each other, as shown and described.

2. The combination, with the handle B and rivet *n*, of the shovel-body having three interlapping flaps, *m l m*, provided with registering holes *e e e*, through which and the handle said rivet passes, as shown and described.

CRAIG KELLMAN EDWARDS.

Witnesses:

FITZ HERBERT EDWARDS,  
BENJ. R. FITCH.