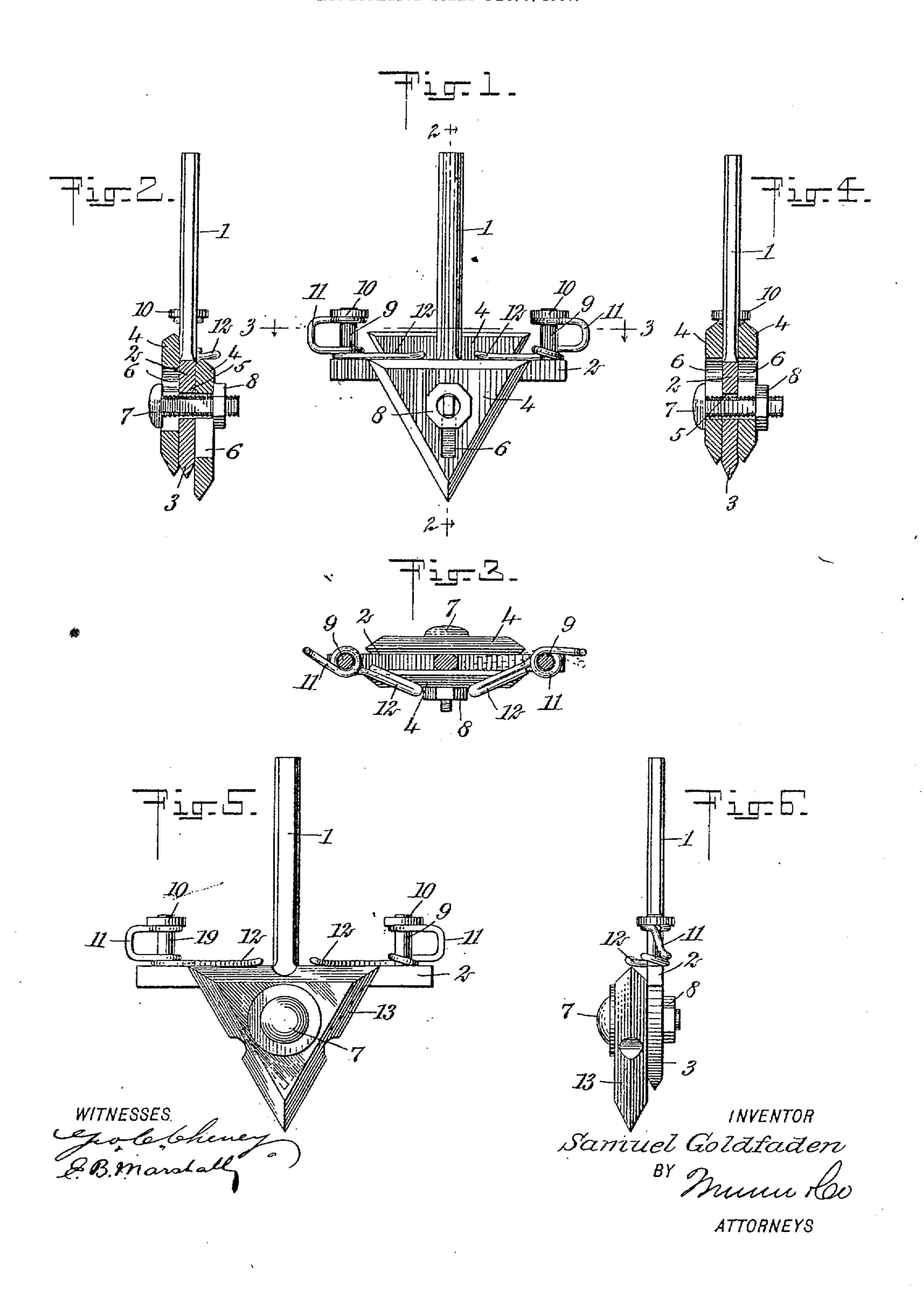
S. GOLDFADEN. STYLUS FOR TALKING MACHINES. APPLICATION FILED DEC. 9, 1807.



UNITED STATES PATENT OFFICE.

ELLSWORTH E. FLORA, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF TO W. E. ROTHERMEL, OF CHICAGO, ILLINOIS.

METAL-BOUND BOX.

No. 881,785.

Specification of Letters Patent.

Patented March 10, 1908.

Application filed April 26, 1907. Serial No. 370,484.

To all whom it may concern:

Be it known that I, Ellsworth E. Flora, a citizen of the United States, residing at Chicago, in the county of Cook and State of 5 Illinois, have invented a new and useful Improvement in Metal-Bound Boxes, of which

the following is a specification.

or fiber-board, and which are usually wire- the trough as flanges 14. bound to reinforce them. This variety of box is more or less unsightly because of the 15 wires, which, moreover, present points at their twisted ends and at ends produced by breaking them in handling, which tend to lacerate the hands and tear the clothing of those whose duty it is to handle them; and 20 to further reinforce this box against too great flimsiness and afford fastening means for the box-ends, it is provided with strengtheningcleats secured to the inner surfaces of the sides, bottom and lid, near their ends, trans-25 versely thereof, by the staples which fasten the wires in place, these cleats adding materially to the weight of the box and to the expense of manufacturing and shipping it.

My object is to provide a novel construc-30 tion of metal-bound box of the variety referred to, which shall present all of the advantages, in an augmented degree, of the wire-bound article, and avoid all of the disadvantages of the latter. This object is ac-35 complished by the construction illustrated in the accompanying drawings, in which-

Figure 1 is a plan view of the blank from which my improved sheet-metal binding strip is formed by folding it along the dotted 40 lines on the figure; Fig. 2, a perspective view of the box-blank provided along its lateral edges with my binding-strip; Fig. 3, a similar view of a box of my improved construction, with the lid raised and one end omitted; 45 Fig. 4, a broken perspective view of the box, with its body-portion and ends in unassembled relation, illustrating an alternative manner of equipping it with my improved binding strips; and Fig. 5, a view of the 50 completed box in cross-sectional elevation, with the lid fastened down.

The binding-strip 6 is composed of flexible sheet-metal, preferably tin and in a continuous length, formed, as by stamping, of an unmutilated rectangular section 7, with four

similar lips, 8, extending laterally from it, and spaced apart, the end-lips having beveled outer edges, and their inner edges and the edges of the intermediate lips being cut away, as represented, to separate them. 6 The blank is folded along the dotted lines at 9, 10, to produce an approximately U-shaped My invention relates to an improvement in trough 11 with an end-tongue 12 extending the construction of boxes of the kind formed, from one side of the trough; and the lips are for economy in manufacture and transporta- bent along the dotted lines 13 to extend 6. tion, of light and cheap material, as veneer their beveled-end sections at right angles to

Sheets 15, 16, 17, and 18, of veneer, or of fiber-board, or other analogous material, of proper dimensions to form the sides 151, 161, 70 the bottom 171 and the top or lid 181, of a box 19, have applied to their ends these binding strips 6 by introducing the ends into the trough 11 to produce the blank 20 shown in Fig. 2, and the strips are firmly secured to 75 the sheets, preferably by eyelets 21 punched through the trough-sections of the strips and through the sheets near their edges. Thereupon the blank is folded, by bending the binding - strips to extend the respective 80 minutes sheets, except the sheet 18, at right angles to each other into box-form, as represented in Fig. 3, with the flanges 14 projecting inwardly to present abutments to the boxends 22, 22, which are thereupon inserted 85! into place and fastened to the flanges, as by eyelets 21, punched through them and through the ends. When the lid 181 is bent into place to cover the box, the flanges 14 thereon are similarly fastened to the box- 90 ends; and the tongues 12 are bent over the side 161 and fastened through holes 23 provided in them, which may coincide with the upper eyelet-holes 21 in that side and be fastened through these coincident holes in 95 any suitable manner, as by eyelets, seals, or the like.

If preferred, the alternative method of assembling the parts of the box, illustrated in Fig. 4, may be employed. This consists in 100 bending the binding-strips 6 into the crosssectional shape of the box and applying and fastening, preferably by means of eyelets, the box-ends 22 to the flanges 14 to form the ends into covering-caps, and thereupon ap- 10! plying these caps to the sheets of material, which may be preparatorily assembled into box-form for the purpose, by introducing their ends into the trough-sections 11 of the strips and fastening the strips and sheets to- 110

gether, preferably by punching eyelets through them, as in the case of the first-de-

scribed method of assembling.

Of course the shape of the box may, without departure from my invention, wary from that herein shown and described, when the shape of the binding-strips will vary correspondingly.

What I claim as new and desire to secure by

o Letters Patent is-

to said flanges.

1. A metal-bound box comprising a bodyportion formed of sheet-material, sheetmetal binding-strips formed with single
trough-shaped sections, in which the edge5 portions of the sheet-material are contained
and secured, each said section being divided
transversely at intervals along the inner side
of the trough at points of bending it to conform to said body-portion, and the divisions
of the trough-sections having flanges projecting at right-angles thereto immediately
from their edges to form box-end abutments,
and box-ends abutting against and secured

2. A metal-bound box comprising a bodyportion having its sides, bottom and lid formed of separate sections of sheet-material, binding-strips composed of sheet-metal bent into single trough-shaped sections, in which the edge-portions of the sheets are contained and secured, as by eyelets, each trough-section being divided transversely at intervals along its inner side at points of bending it to conform to said body-portion, and the divisions of the trough-sections havaing flanges projecting at right-angles thereto immediately from their edges, and box-ends abutting against and secured to said flanges.

3. A metal-bound box comprising a bodyportion formed of sheet-material, sheet- 40
metal binding-strips formed with single
trough-shaped sections having end-lips, in
which sections the edge-portions of the sheetmaterial are contained and secured, each
said section being divided transversely at 45
intervals along the inner side of the trough
at points of bending it to conform to said
body-portion, and the divisions of the
trough-sections having flanges projecting at
right-angles thereto immediately from their 50
edges to form box-end abutments, and boxends abutting against and secured to said
flanges.

ELLSWORTH E. FLORA.

In presence of— RALPH A. SCHAEFER, J. H. LANDES.