W. J. KENNEDY.

FILE BOX.

APPLICATION FILED APR. 19, 1915.

1,173,002.

Patented Feb. 22, 1916.

Fig. I.

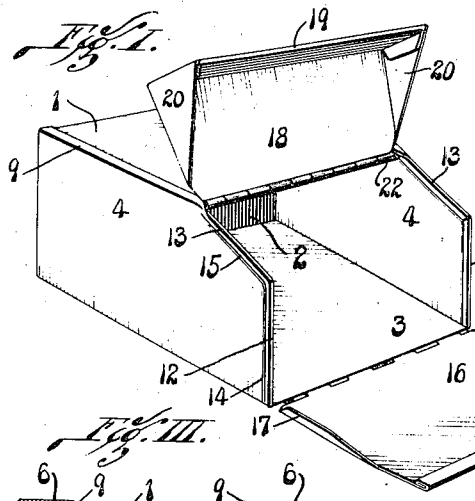


Fig. II.

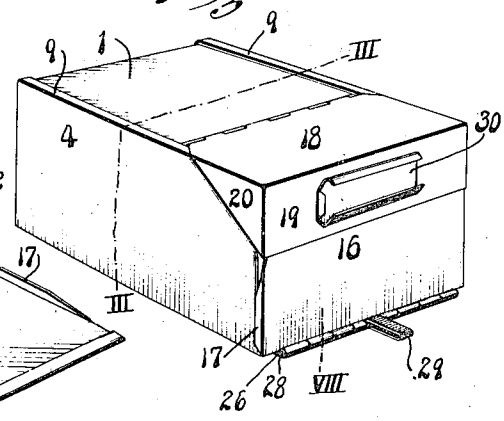


Fig. III.

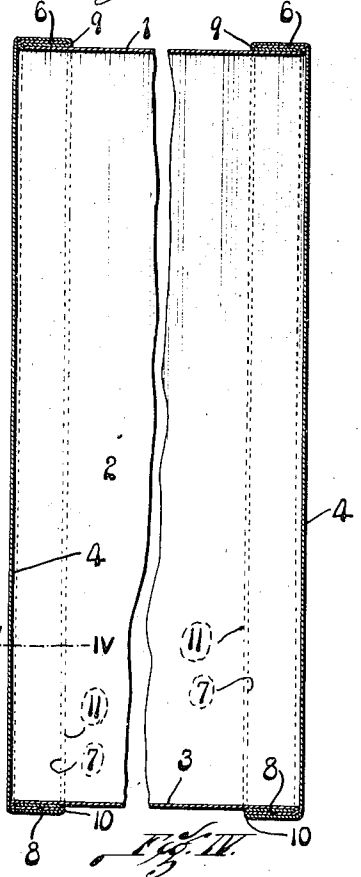


Fig. V.

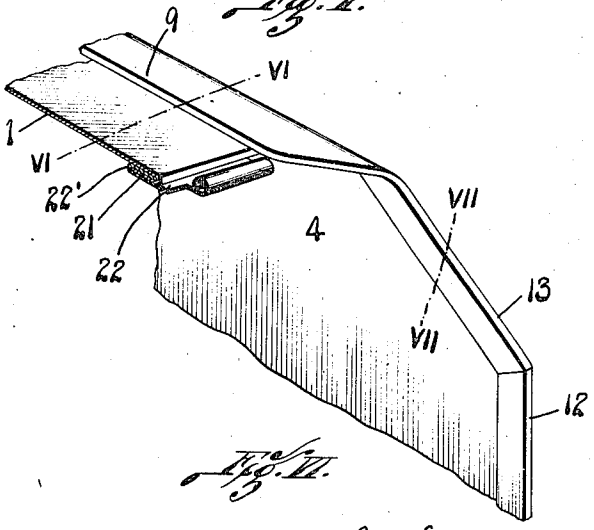


Fig. VI.

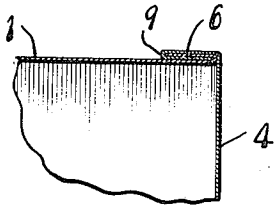


Fig. VII.

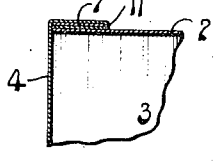


Fig. VIII.

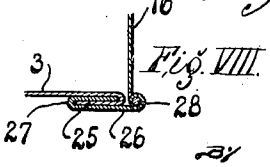
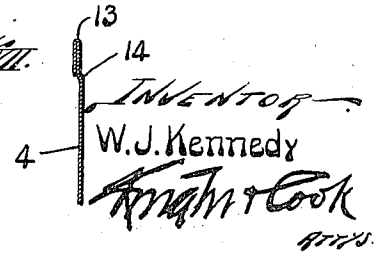


Fig. IX.



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FILE-BOX.

1,173,002. Specification of Letters Patent. Patented Feb. 22, 1916.

Application filed April 19, 1915. Serial No. 22,309.

To all whom it may concern:

Be it known that I, WILLIAM J. KENNEDY, a citizen of the United States of America, a resident of the city of St. Louis, State of Missouri, have invented a certain new and useful Improvement in File-Boxes, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, forming a part of this specification.

My invention relates to a sheet metal receptacle particularly adapted for use as a file-box, one of the objects being to produce a strong and simple file-box made of thin sheet metal. By forming the box of thin sheet metal, I produce a very light and inexpensive structure, and the required strength is obtained by folding certain parts of the thin sheet metal. The invention also includes certain specific details of construction, and certain combinations of elements which will be hereinafter described.

Figure I is a perspective view of my file-box, showing the closure members in their open positions. Fig. II is a perspective view showing the closures in their closed positions. Fig. III is an enlarged transverse section taken on line III—III, Fig. II, the middle portion of the box being broken away. Fig. IV is a section on line IV—IV, Fig. III, showing the manner of interlocking the rear wall with a side wall of the box. Fig. V is a fragmentary perspective view showing a portion of the top wall, the hinge member interlocked with said top wall, and a portion of a side wall. Fig. VI is a section taken on line VI—VI, Fig. V. Fig. VII is a section on line VII—VII, Fig. V. Fig. VIII is a section on line VIII, Fig. II.

The body of the box I have shown comprises a top wall 1, a rear wall 2, a bottom wall 3, and a pair of side walls 4. The top, rear and bottom walls, designated 1, 2 and 3, respectively, are preferably formed of a single sheet of metal, and the side walls are secured to said single sheet of metal. The margins of this single sheet of metal are folded outwardly and backwardly to provide flanges 6, 7 and 8. The top margins of the side walls 4 are folded over the top wall 1 to provide U-shaped members 9 which receive the flanges 6 of said top wall, as shown most clearly in Fig. III. The lower margins of the side walls 4 are folded under the bottom of the box to provide U-shaped members 10 which receive the flanges 8 on the bottom wall 3; and the rear margins of the side walls are folded in a similar manner to produce the U-shaped members 11 which interlock with the flanges 7. It will be noted that the flanges 6, 7 and 8 are formed integral with the single sheet of metal, which constitutes the walls 1, 2 and 3, and that the U-shaped members 9, 10 and 11 are formed integral with the side walls 4. By folding and flanging the metal in the manner shown and described, I securely unite the box walls and at the same time very materially reinforce the structure. Therefore, the box body may be made of very thin sheet metal.

The side walls 4 are provided with vertical front edges 12, and inclined upper edges 13 which extend from the vertical edges 12 to the top wall of the box body. These edges, or margins, 12 and 13 are reinforced by folding the metal backwardly as shown most clearly in Fig. VII. The front margins of the side walls 4 are offset at 14 and the inclined upper margins of said walls are offset at 15.

16 designates a front closure member hinged at its lower end to the bottom wall 3, and provided with flanges 17 adapted to overlap the offset vertical margins of walls 4.

18 designates an upper closure member hinged to the front edge of the top wall 1 and provided with a depending front flange 19 and triangular side flanges 20. When the closures occupy their closed positions (Fig. II) the flange 19 overlaps the front closure 16 to retain the latter in its closed position, and the triangular side flanges 20 overlap and engage the inclined edges 13 at the side walls 4.

The front margin of the top wall 1 is folded downwardly and backwardly, Fig. V, to produce a flange 21 which lies within the box body. A hinge member 22, extending across the box, is folded to provide a U-shaped member 22′ which interlocks with flange 21. The upper closure 18 is pivotally connected to the hinge member 22. By folding the front edge of the top wall 1 and also folding the hinge member 22 in the manner described, I very securely unite these parts and at the same time reinforce the box structure at a point where strength is required. The front margin of the bottom wall 3 (Fig. VIII) is folded downwardly and backwardly to provide a flange 25 which lies below the box body.

26 designates a hinge member extending

across the box body and provided with a U-shaped portion 27 which interlocks with the flange 25, as shown in Fig. VIII. The hinge member 26 serves as means for reinforcing the lower portion of the box.

28 designates a hinge pin connecting the front closure 16 to the hinge member 26.

My file-box is preferably in the form of a drawer adapted to be associated with a number of similar filing-boxes, and it is preferably provided with a flexible pull strap 29, Fig. II. This pull strap 29 is preferably a loop which surrounds the hinge pin 28.

30 designates a card receiving member secured to the upper closure 18, see Fig. II.

I claim:

1. A sheet metal box having a body provided with top, bottom, side and rear walls, the side walls having vertical front edges and inclined upper edges extending from said vertical front edges to the top wall, a front closure member hinged at its lower end to said body and adapted to engage said vertical front edges, and an upper closure member hinged to the front edges of said top wall, said upper closure member having a depending front flange adapted to overlap said front closure member to retain the latter in its closed position and also having triangular side flanges adapted to overlap the inclined upper edges of said side walls.

2. A sheet metal box having a body provided with top, side and rear walls, the side walls having vertical front edges and inclined upper edges extending from said vertical front edges to the top wall, said edges of the side walls being offset to receive closure members, a front closure member hinged at its lower end to said body and provided with flanges adapted to overlap the offset vertical front edges of the side walls, and an upper closure member hinged to the front edge of said top wall, said upper closure member having a depending front flange adapted to overlap said front closure member to retain the latter in its closed position, said upper closure member also having triangular side flanges adapted to overlap the offset upper edges of said side walls.

3. A file-box having top, bottom and rear walls formed of a single sheet of metal, side walls having their top, bottom and rear margins interlocked with said single sheet of metal, and closure members hinged to the front edges of said single sheet of metal.

4. A file-box comprising a sheet metal body open at one end, the front margin of the top wall of said body being folded backwardly, a sheet metal hinge member interlocked with the folded portion of said top wall, and a closure pivotally connected to said hinge member.

5. A file-box having a sheet metal body which is open at its front end, the front margin of the top wall of said body being folded downwardly and backwardly, a sheet metal hinge member extending across said top wall and interlocked with the folded portion thereof, so as to reinforce the sheet metal structure, and a closure pivoted to said hinge member.

6. A file-box having a sheet metal body, a front margin of the top wall of said body being folded downwardly and backwardly to lie within the body, the front margin of the bottom wall being folded downwardly and backwardly to lie below the body, a lower hinge member extending across the bottom of said body and interlocked with the folded portion of said bottom wall, an upper hinge member extending across said body and interlocked with the folded portion of said top wall, a closure pivotally connected to said lower hinge member, a second closure pivotally connected to the upper hinge member and adapted to overlap the first mentioned closure to retain it in its closed position.

7. A sheet metal box comprising a body having top, bottom and rear walls, said walls being formed of a single sheet of metal having its side margins folded backwardly, side walls having folded margins which interlock with the folded portions of said single sheet of metal so as to reinforce the corners of the box body, said side walls being provided with vertical front edges and inclined top edges extending from said vertical front edges to the top wall, said edges being folded to reinforce the structure, the front margin of the bottom wall being folded backwardly, a sheet metal hinge member extending across said bottom wall and interlocked with said folded front margin, a front closure member pivoted at its lower end to said sheet metal hinge member, said front closure member being adapted to engage the vertical front edges of said side walls, the front margin of said top wall being folded backwardly, a sheet metal hinge member folded to interlock with the folded portion of said top wall, and an upper closure member pivoted to the last mentioned hinge member and adapted to overlap said front closure member to retain the later in its closed position.

8. A sheet metal file-box in the form of a drawer having a transverse hinge pin at the front end of its bottom wall, a front closure fitted to said hinge pin, and a flexible pull strap secured to said hinge pin.

9. A file-box in the form of a drawer having a sheet metal body provided with a hinge pin at the front edge of its bottom wall, a front closure fitted to said hinge pin, an upper closure adapted to overlap the upper edge of said front closure, and a flexible pull member secured near said hinge pin.

10. A file-box having a body provided

with top, bottom and rear walls, side walls folded to interlock with said top, bottom and rear walls, said side walls having vertical front edges and inclined top edges extending from said vertical front edges to the top wall, the metal being folded to reinforce said vertical front edges and inclined top edges, a front closure hinged to the bottom wall and adapted to engage said vertical front edges, and an upper closure hinged to the top wall and adapted to overlap said front closure, said upper closure being provided with triangular side flanges adapted to engage the inclined top edges of said side walls.

WILLIAM J. KENNEDY.