

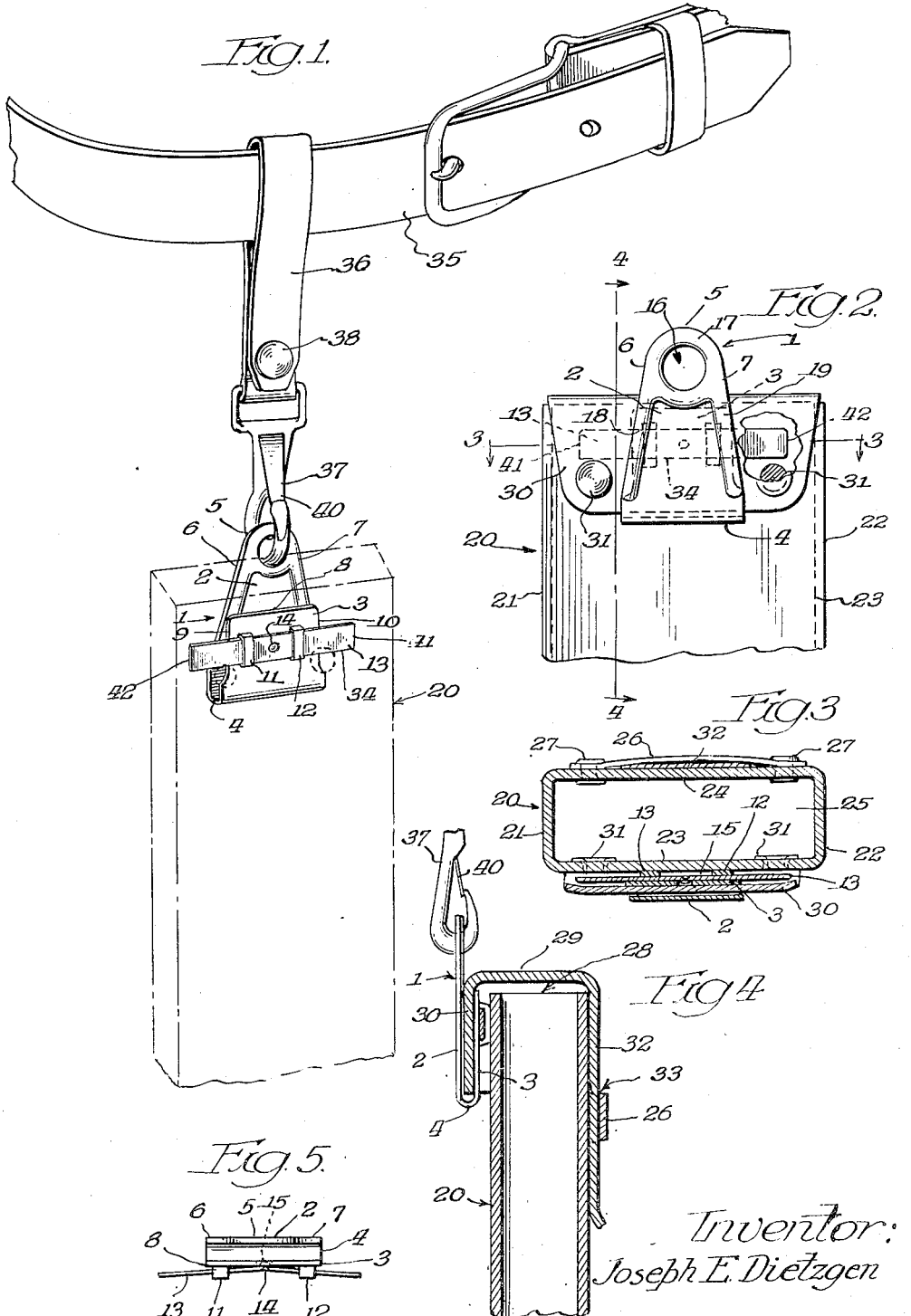
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J. E. DIETZGEN

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CLIP

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Inventor:
Joseph E. Dietzgen

By: Spencer, Margall, Johnston & Cook
Attorneys

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CLIP

Joseph E. Dietzgen, Winnetka, Ill., assignor to
Eugene Dietzgen Co., Chicago, Ill., a corpora-
tion of Delaware

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1

The present invention relates to an attachment in the form of a clip which is adapted to be applied detachably to certain types of carrying containers or cases.

A primary object of the invention is to provide a new and novel clip member which may be applied or secured detachably to a part of a suitable type of case or container so that the same may be rendered capable of being suspended from a belt of a person by an intermediately disposed strap or connecting element.

Another object of the invention is to provide a new and novel metal clip having a pair of integral straps struck out from the body to provide loops through which a suitably formed strip may be inserted to secure said clip to a suitably constructed container or carrying case.

A further object of the invention is to provide a clip having means whereby the clip may be located or secured to a suitably constructed container or case.

Numerous other objects and advantages will be apparent throughout the progress of the following specification.

The accompanying drawing illustrates a selected embodiment of the present invention and the views therein are as follows:

Fig. 1 is a perspective view showing the clip member attached to a carrying case, and suspended from the belt of a person;

Fig. 2 is a rear elevational view showing the clip member secured to the rear of a slide rule case;

Fig. 3 is a horizontal sectional view taken on the line 3-3 of Fig. 2;

Fig. 4 is a vertical sectional view on the line 4-4 of Fig. 2; and

Fig. 5 is a top plan view of the clip.

The particular embodiment of the invention herein disclosed for the purpose of illustrating the invention comprises a clip 1 embodying a substantially triangular plate or body part 2, and a rectangular plate or part 3, which are integrally connected together at their lower ends by means of a curved integral end plate 4. The triangular plate 2 comprises a curved top edge 5 from which opposed side edges 6, 7 slope downwardly and outwardly. The rectangular plate part 3 has a flat top edge 8 and a pair of side edges 9 and 10 which are parallel to each other. The side edges 9 and 10 are spaced apart from each other at a distance which is less than the length of the base of the triangular plate 2, as clearly shown in Fig. 1.

The rectangular plate 3 has a pair of spaced parallel integral straps 11, 12, which are struck out from the plate 3 and extend outwardly from the plate 3. These straps are joined integrally

2

at their ends to this plate. The straps 11, 12 are adapted to receive a narrow strip 13, which is preferably formed of a springy material, such as spring steel or the like. This springy strip 13 is bent transversely at its center so that the strap will assume the shape of a flattened V. A small protuberance 14 is preferably formed in the center of the strap 13 and is receivable in a small opening or hole 15 formed in the plate 3 at a point midway between the straps 11 and 12.

The triangular plate 2 is preferably provided with a circular opening 16 near its apex. The edge of the opening 16 may be reinforced with a circular ring-like rib 17 which completely surrounds the opening. The plate 2 may be strengthened at its side edges 6 and 7 by the provision of a pair of ribs 18 and 19 which are adjacent these edges and which extend downwardly from the circular rib 17. The ribs 17, 18 and 19 are preferably integral with the plate 2 and may be formed by stamping, or in any other suitable manner.

The clip 1 may be used with any suitably constructed container or carrying case, but is described herein as being particularly adaptable and suitable for use with cases or containers 20 for carrying slide rules of the type employed by engineers, mathematicians, designers and the like.

The slide rule case or container 20 is conventionally constructed in the form of an elongated rectangular box. The container 20 may have two relatively narrow opposed side walls 21 and 22, which are connected integrally to a rearward wall 23 and a forward wall 24. A bottom wall 25 connects the said walls and closes the bottom. A transversely disposed strap 26, which may be formed of leather, is fastened at its ends to the forward wall 24 near the upper end of the container 20 by means of two rivets 27, 27.

The container 20 is provided with an opening 28 at its top end, which is adapted to be closed by a cover or flap 29. The cover or flap 29 has a short downturned extension 30 which is secured to the rearward wall 23 in any suitable manner, such as by rivets 31. The flap 29 has any extension 32 in the form of a tongue, which may be inserted between the back of the strap 26 and the front of the forward wall 24 of the container, as indicated at 33, Fig. 4, so that the opening 28 at the top of the container may be properly covered.

The clip 1 may be applied to the container 20 by first inserting the rectangular plate 3 upwardly between the rearward flap extension 30 and the rearward wall 23, and between the rivets 31. The springy strip 13 is then forced through the straps 11 and 12 until the protuberance 14 on the strip

3

13 engages the hole 15 in the plate 3. The strip 13 will thereby be prevented from being forced out of the straps 11 and 12 under normal conditions because the springy nature of the strip 13 will cause the locking protuberance 14 to be forced tightly into the hole or keeper 15. The strip 13, after being positioned in the straps 11, 12, prevents the clip member 1 from being disengaged from the container 20, since the lower edge 34 of the strip 13 will abut against the rivets 31 should there be any tendency of the clip member 1 moving downwardly or from coming out of engagement with the flap extension 30.

After the clip 1 has been fastened to the container 20 in the manner described, the container 20 may be suspended from an individual's belt 35, as clearly shown in Fig. 1. A leather strap 36, having a snap clip 37 at one end, is looped around the belt 35 and the ends of the strap 36 are fastened together by means of a snap fastener 38. The snap clip 37 has a springy strip 40 which may be depressed so that the snap clip 37 engages the opening 16 in the triangular plate 2.

The clip 1 may be detached from the container 20 by applying a force against either of the two outer ends 41 and 42 of the strip 13. This action will cause the protuberance 14 on the strip 13 to become disengaged from the hole or keeper 15, thereby allowing the strip 13 to be removed easily from engagement with the straps 11 and 12 and the clip 1, by merely grasping the end of the strip 13 and pulling it outwardly.

The invention provides a positively operating appliance in the form of a clip which may be applied to, and detached readily from, a case or container for easy carrying. The clip is simple and durable in construction and may be readily and economically manufactured. The parts constituting the clip are adapted to be stamped from metal and are easily and quickly assembled. The device may be sold as a separate unit or it may comprise a part applied to a carrying case.

While the present invention is particularly adapted to be used with slide rule containers, it is to be understood that the device may be used in connection with any container or case capable of being fastened to the clip 1 by the means heretofore described.

Changes may be made in the form, construction and arrangement of the parts without departing from the spirit of the invention or sacrificing any of its advantages and the right is hereby reserved to make all such changes as fall fairly within the scope of the following claims.

The invention is hereby claimed as follows:

1. A clip for attachment to a carrying case, comprising a back member, a front member parallel with the back member, spaced therefrom and integrally united therewith along the meeting edges of said members, one of said members having lugs struck therefrom in a plane offset from the member to define a space between the lugs and the said member, and a resilient member receivable in said space, behind the lugs.

2. A clip for attachment to a carrying case, comprising a back member, a front member parallel with the back member, spaced therefrom and integrally united therewith along the meeting edges of said members, one of said members having lugs struck therefrom in a plane offset from the member to define a space between the lugs and the said member, and a resilient member receivable in said space, behind

4

the lugs, said resilient member having a protuberance on a face thereof and receivable in a space formed in the member having the lugs.

3. A clip for attachment to a carrying case, comprising a back member, a front member parallel with the back member, spaced therefrom and integrally united therewith along the meeting edges of said members, one of said members having lugs struck therefrom in a plane offset from the member to define a space between the lugs and the said member, and a resilient member receivable in said space, behind the lugs, said resilient member having a protuberance on a face thereof and receivable in a cavity formed in the member having the lugs, said resilient member also being bowed transversely to create a pressure against the lugs and the face of the member having the lugs.

4. A clip for attachment to a carrying case, comprising a back member, a front member parallel with the back member, spaced therefrom and integrally united therewith along the meeting edges of said members, one of said members having lugs struck therefrom in a plane offset from the member to define a space between the lugs and the said member, a resilient member receivable in said space, behind the lugs, said resilient member having a protuberance on a face thereof and receivable in a cavity formed in the member having the lugs, said resilient member also being bowed transversely to normally urge engagement of said protuberance in said cavity.

5. In combination, a container, a cover closure secured to one side of the container, said cover closure extending a predetermined distance below the top of the container and secured to the container by spaced securing means whereby a space is provided beneath the cover, below an edge of the container and between the securing means, a U-shaped clip having one leg arranged in said space between a part of the closure and a wall of the container and between the securing means, and a second leg extending from the clip in position projecting exteriorly of the closure for attachment as on a carrying belt.

6. In combination, a container, a cover closure secured to one side of the container, said cover closure extending a predetermined distance below the top of the container and secured to the container by spaced securing means whereby a space is provided beneath the cover, below an edge of the container and between the securing means, a U-shaped clip having one leg arranged in said space between a part of the closure and a wall of the container and between the securing means, and locking means engageable with a part of the clip to prevent the clip from being accidentally removed from the container, said clip having a second leg extending exteriorly of the closure in position for attachment as on a carrying belt.

7. In combination, a container, a cover closure secured to one side of the container, said cover closure extending a predetermined distance below the top of the container and secured to the container by spaced securing means whereby a space is provided beneath the cover, below an edge of the container and between the securing means, a U-shaped clip having one leg arranged in said space between a part of the closure and a wall of the container and between the securing means, a second leg extending from the clip in position projecting exteriorly of the closure, for attachment as on a carry-

2,543,313

5

ing belt, locking means engageable with a part of the clip and adapted for interfitting engagement with the container and closure, in said space, to prevent the clip from being accidentally removed from the container.

JOSEPH E. DIETZGEN.

6

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