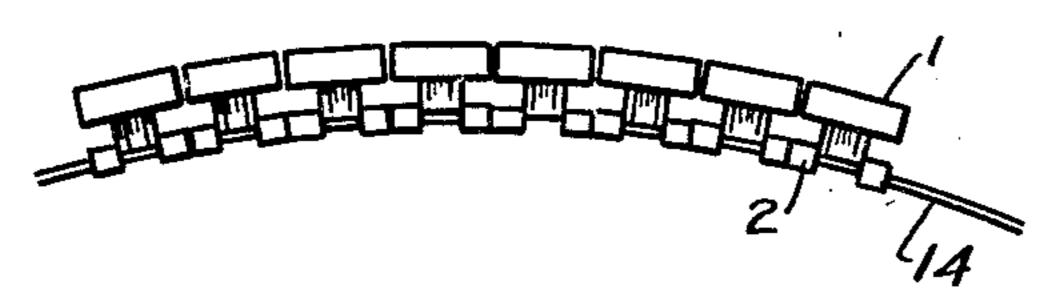
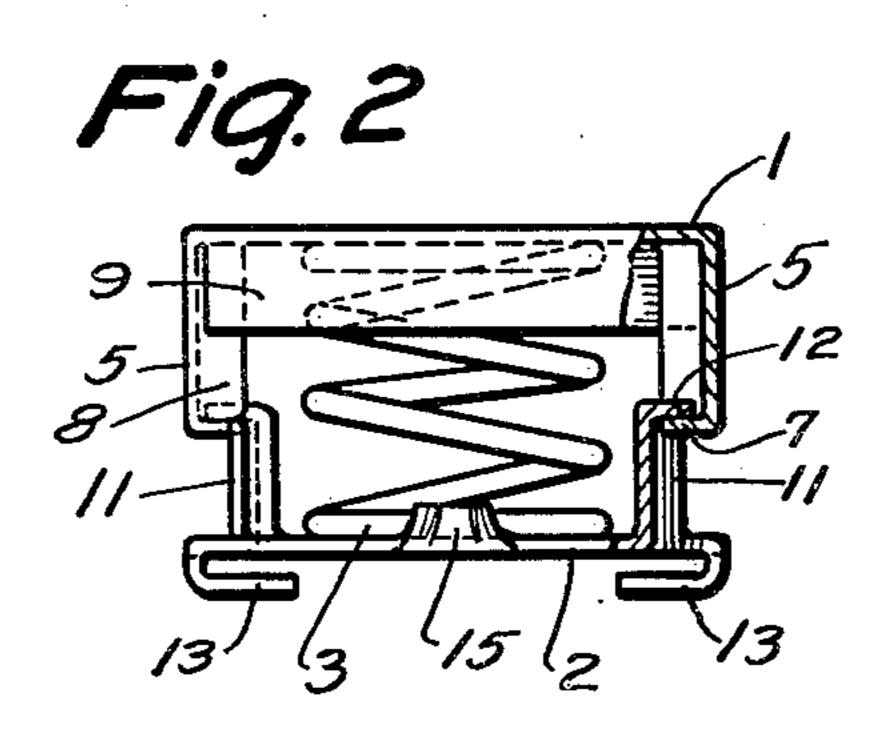
G. W. BRISTOL

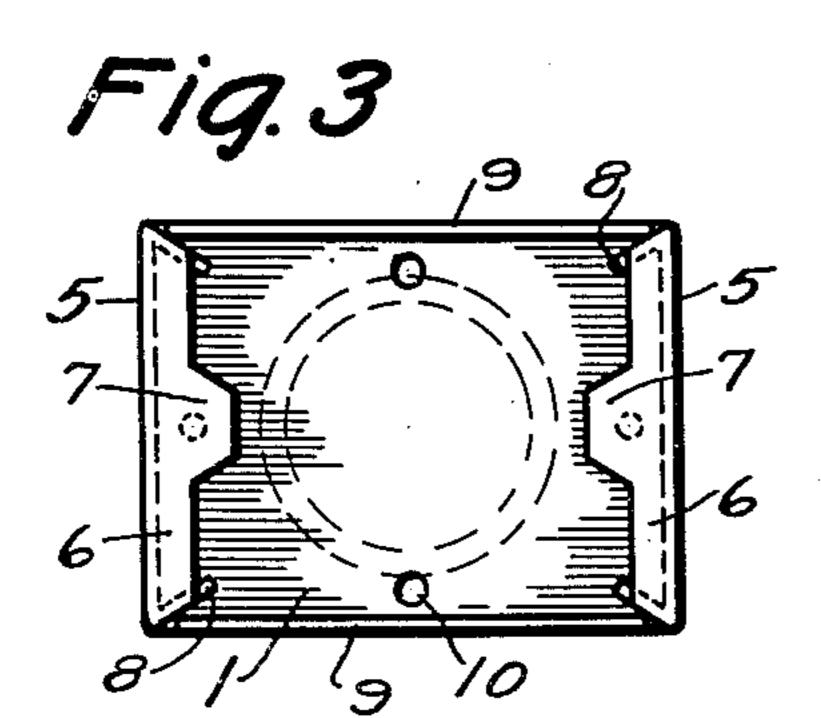
FLEXIBLE SPRING PAD

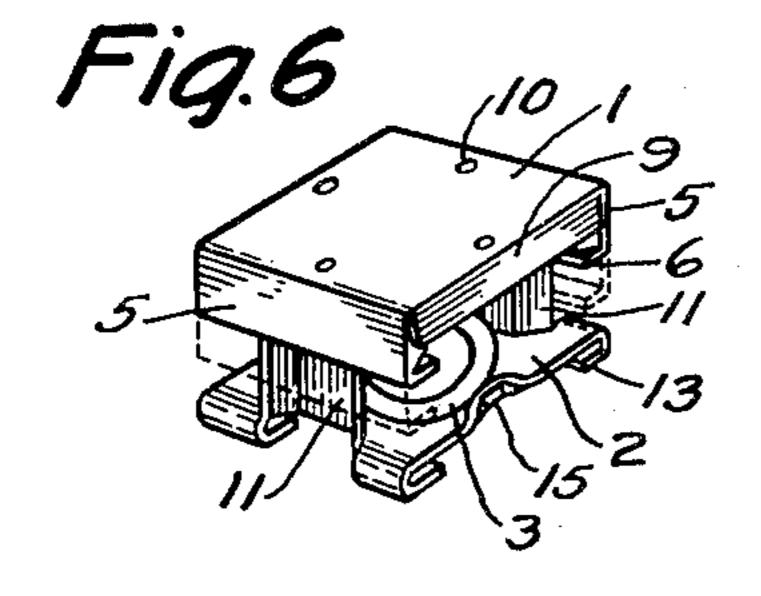
Filed Jan. 27, 1932

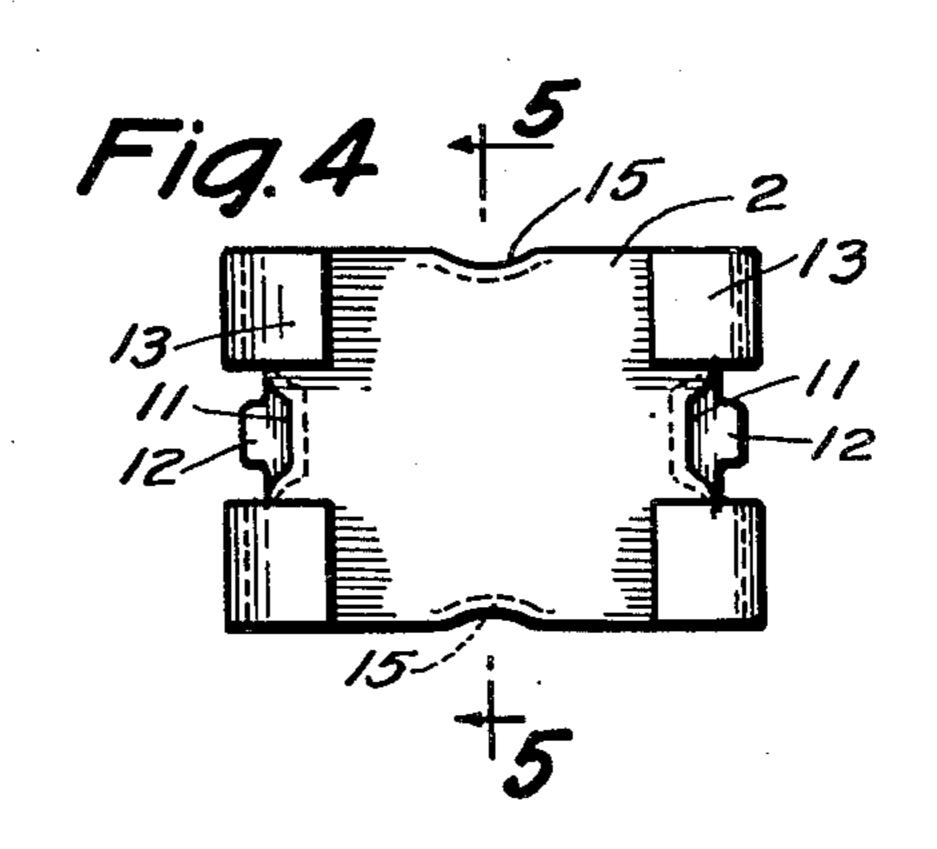
Fig.1

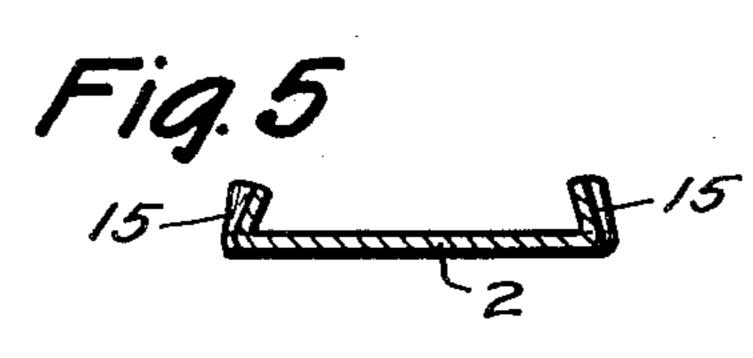












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## UNITED STATES PATENT OFFICE

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## FLEXIBLE SPRING PAD

Application filed January 27, 1932. Serial No. 589,086.

The invention is an improvement in spring In the drawing the pad is shown as it with an individual cap and base held apart the spring. by a spring, and in which the parts are reinforced to prevent bending and attached at the center providing axial movement.

an individual pad member having parts re- which correspond with studs on the base 10 siliently held apart and in which the guides 2. At the edges of the ends 5 are diagonal 60 and stops are reinforced to prevent bending. flanges 8 which bend inward as shown in

vide a cap for spring pads in which the sides are flanges 9 that engage the outer surfaces and edges are reinforced by engaging of the flanges 8. The cap may be provided 15 flanges.

Another object of the invention is to pro- lets for the pad. vide spring pads adapted to be installed on The base 2 is made with a flat piece of a curved base.

20 provide a base for spring pads in which the 4. It will be noted that these studs are 70 web shaped to prevent bending.

is to provide a flexible spring pad which is upper ends of the studs 11 are projections selfcontained in an individual unit and of 12 which limit the upward movement of the 75 simple and economic construction.

downwardly extended flanges, a base with and when pressure is applied to the top of 30 upwardly extended guides forming slide the pad the cap will move downward with 80 cap from the base.

vention will appear from the following de- a strip of material 14 as shown in Figure 1. ing, wherein:

Figure 1 is a view showing the pads as

they would appear in use. Figure 2 is a side elevation of the pad with a portion broken away showing a sectional view.

Figure 3 is a view looking toward the under side of the cap.

Figure 4 is a view looking toward the under side of the base.

Figure 5 is a cross section through the base on line 5—5 of Figure 4.

Figure 6 is a view showing the pad assembled.

pads for an ironing machine or for other would be made wherein numeral 1 indicates similar purposes in which the pad is formed the cap, numeral 2 the base, and numeral 3

The cap is made as shown with a flat piece 55 of plate having downwardly extended ends 5 with flanges 6 at the lower ends and in The object of the invention is to provide the center of the flanges 6 are projections 7 Another object of the invention is to pro- Figure 3 and at the sides of the member 1 with perforations 10 which form steam out- 65

plate having the studs 11 extending upward A further object of the invention is to at the ends and shaped as shown in Figure guide members that hold the cap are made formed with a back having diagonal sides which add materially to its strength and And a still further object of the invention make it very strong and durable. At the cap by holding the members 7 that are slid-With these ends in view the invention em- able in the studs 11. The cap is held upbodies a spring pad having a cap with ward from the base by the spring 3 as shown studs in which the flanges of the cap are the members 7 sliding downward in the held, and a spring, resiliently holding the stude 11. On the underside of the base 2 are clips 13 which are arranged as shown in Other features and advantages of the in- Figures 2 and 4 so that the pads may slide on scription taken in connection with the draw- These clips may be of any shape or design, or arranged in any manner, or any other means may be used for holding the pads to the strips. At the edges of the base 2 are projections 15 that engage and hold the edges of the spring to locate and hold the spring in the center of the base. It will be understood that these projections may be of any other shape and formed in any other manner and also that any other means may be used for locating and holding the spring.

It will be understood that other changes may be made in the construction without departing from the spirit of the invention. One of which changes may be in the use of

other means for reinforcing the cap, another it possible for the upper surface of the cap may be in the use of other means for slid- to slope in any direction. ably holding the cap to the base, and still 3. A spring pad comprising a base with another may be in the use of other means channel shaped studs extending upward at for resiliently holding the cap away from the ends, and in the center of said ends, a 70 the base.

stood from the foregoing description. In studs flexibly holding said cap to the base, use the pad may be supplied as shown and and a spring between said cap and base, said 10 assembled on strips as shown in Figure 1 holding means providing flexible movement 75 and the strips may be arranged on a flat or between the cap and base in all directions. curved pad or in any desired position. It 4. A spring pad comprising a base with 15 two parts are held at one point and this at the ends with projections on the flanges 80 20 be used on flat surfaces or for any other pur- a spring between said cap and base. any other manner. It will also be noted that by forming the cap 1 with engaging flanges at the sides makes the cap and the 25 ends thereof very strong so that it will stand hard use and wear. It will practically be impossible to bend the ends or legs 5 of the cap so that they will not bind or cause any trouble whatever. The shape of the studs 30 on the base also provides very sturdy construction so that the wearing quality of the pad is materially improved as compared with other pads. To provide a pad in an individual unit and of the sturdy construc-35 tion shown and described provides considerable advantage and makes it possible to use the pad where it receives very hard service and also makes it applicable for many other purposes.

Having thus fully described the invention what I claim as new and desire to obtain by

Letters Patent, is:

1. In a spring pad of the type having a cap and a base slidably attached and held 45 apart by a spring, continuous engaging flanges extending downward from the edges of said cap, the flanges at the ends of said cap having projections extending inward at the centers thereof, flanged studs extending <sup>50</sup> upward from said base with grooves corresponding with the projections of said flanges and stops in the ends of said grooves limiting the movement of said projections said base having spring holding projections at the sides, and clips on the under side of the ends of said base, said attaching means allowing the upper surface of said cap to slope in any direction.

2. In a spring pad of the type having a cap and a base slidably attached and resiliently held apart, means attaching said cap and base at the transverse center of the

cap having flanges at the ends with projec-The construction will be readily under- tions on the flanges cooperating with said

will be noted that by holding the cap to the channel shaped studs extending upward at base with the members 7 in the studs 11 the the centers of the ends, a cap having flanges point is on the center so that greater flexi- cooperating with said studs, providing a bility of movement will be obtained and the flexible connection, said studs having means pads may readily be used on a curved sur- engaging said projections on the flanges to face of any description. The pad may also limit the upward movement of the cap, and

pose, and the pads may be held together in 5. In a spring pad of the type having a cap, a base, and a spring between the cap and base, means slidably holding the cap to the base at the center of the ends of the cap and base providing flexibility in all 90

directions.

6. In a spring pad of the type having a cap, a base, and a spring between the cap and base, means slidably holding the cap and base together, providing a flexible con- 95 nection between the cap and base, and continuous flanges around said cap reinforcing the cap and also the means holding the cap and base together.

7. A cap for spring pads or the like com- 100 prising a flat piece of material with downwardly extending ends and inwardly extending flanges at the lower ends of the ends, said ends also having diagonal flanges extending inward from the vertical sides 105 thereof and the sides of said flat piece of material having downward extending flanges, the ends of which engage the diagonal flanges of the ends, and said flanges at the lower ends of the ends of said flat 110 piece of material having inwardly extend-

8. A base for spring pads or the like comprising a flat piece of material with channel shaped studs extending upward 115 from the centers of the ends thereof, said studs having flanges in the upper ends with projections extending outward therefrom, said base having clips at the ends at the sides of said studs and on the under side, 120 and said base having upwardly extending projections at the centers of the sides.

ing projections in the centers thereof.

9. In a spring pad of the type having a cap and a base resiliently held apart by a spring, said cap having downwardly ex- 125 tending solid ends with inwardly extending flanges at their lower ends and projections at the centers of said flanges, said ends also ends thereof providing flexibility of move- having diagonal flanges extending inwardly 65 ment of one in relation to the other making from the vertical edges thereof and said 130

cap having flanges at the sides with the ends engaging said diagonal flanges, said base having upwardly extending channel shaped studs with projections at their upper ends forming stops and positioned to engage the projections at the centers of the flanges at the lower ends of the ends of the cap which are slidable in said studs, projections extending upward from the sides of said base to hold a spring thereon, and downwardly extending clips at the ends of said base.

10. In a spring pad of the type having a cap and a base resiliently held apart, means holding said cap to said base with slidable engagement providing flexibility of movement of said cap in relation to the base, said holding means located on the longitudinal

axis of said cap and base.

11. In a spring pad of the type having a cap and a base resiliently held apart, vertical studs having grooves at the centers of the ends of said base, and holding means on said cap slidable in said grooves and adapted to permit flexible movement of said

25 cap.

12. In a spring pad of the type having a cap and a base resiliently held apart, vertical studs having grooves at the centers of the ends of said base, and solid downwardly extending ends on said cap having projections slidable in said grooves providing flexibility of movement of said cap in relation to the base.

In testimony whereof he affixes his signature.

GEORGE W. BRISTOL.

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