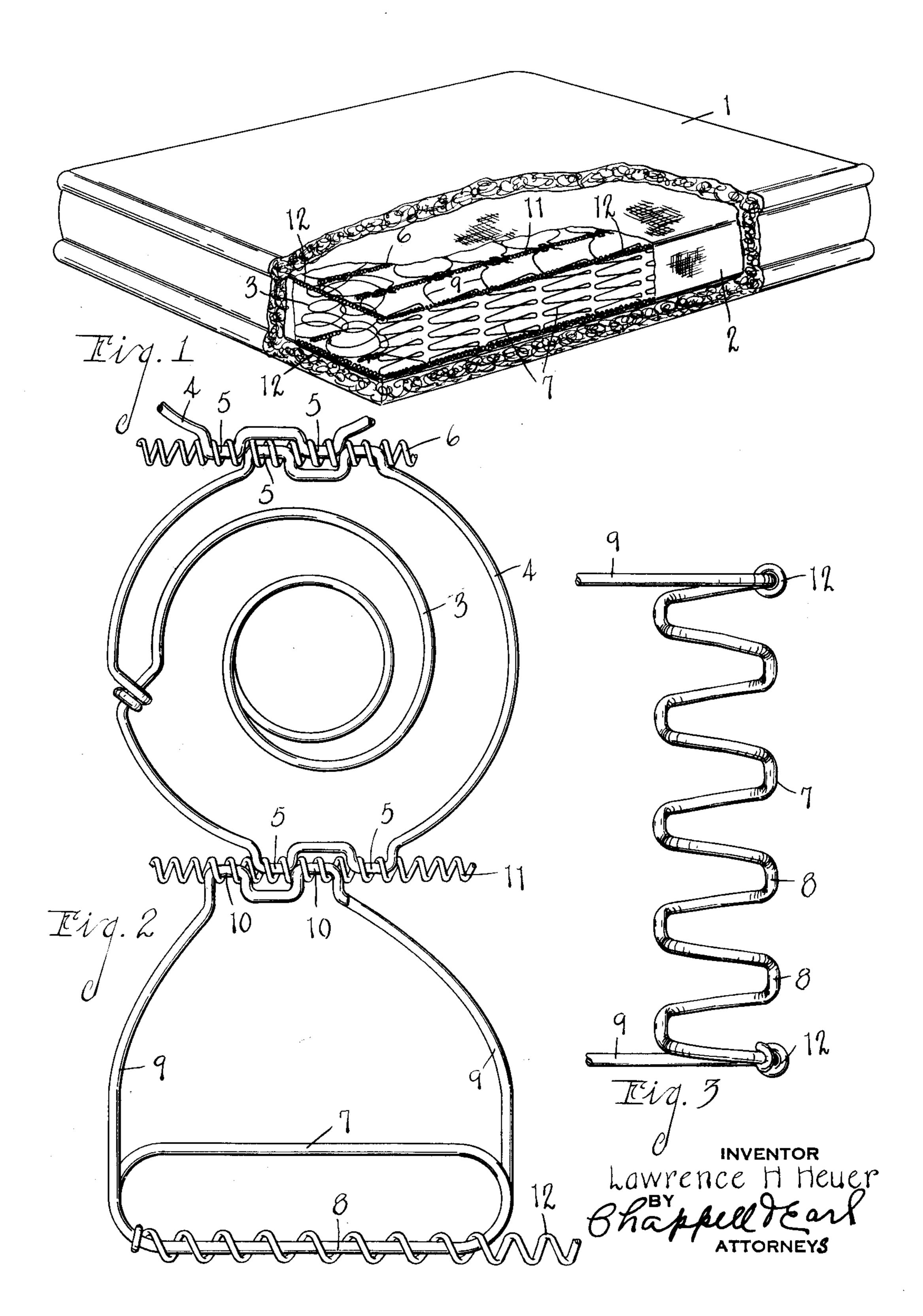
SPRING ASSEMBLY FOR MATTRESSES AND THE LIKE

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SPRING ASSEMBLY FOR MATTRESSES AND THE LIKE

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The main objects of this invention are: spring filler unit for mattresses, pillows and type having the end coils 4 thereof provided the like which is very resilient and at the 5 same time the springs are effectively supported in upright position, and also one in which the sides of the covering are effectively supported and prevented from sagging ternating relation so as to bring the bights or buckling between or becoming interlocked 10 with the side border springs of the unit.

in which the edges are formed so that they are somewhat stiffer than the center or body

portion of the unit.

Third, to provide a spring assembly of this character which can be readily adjusted in width to meet the particular requirements of the mattress maker without varying the number of rows of springs or changing the 20 diameters of the springs.

Objects pertaining to details and economies of my invention will definitely appear in offsets 10 corresponding to the offsets 5 from the description to follow. The inven- of the body springs and arranged in alined tion is defined and pointed out in the claims. relation therewith to receive the helical tie

of my invention is clearly illustrated in the members 6. accompanying drawing, in which:

embodying my filler unit or spring assembly 30 with the upholstery thereof partially broken away.

springs to the body springs and the connec-stantially continuous grid-like support for 35 tions to these parts.

Fig. 3 is a fragmentary elevation of one of

the border springs.

In the embodiment of my invention illustrated the mattress comprises the upholstery 40 or covering 1 which is provided with a suitable filler shown conventionally, and the casing 2 of fabric designed to house the spring assembly and to be inserted therewith into the upholstery.

illustrated comprises a plurality of body First, to provide a spring assembly or springs 3 of the spiral or helically coiled with offsets 5 on opposite sides. The structure illustrated has pairs of these offsets.

The body springs are arranged in rows with the offsets of adjacent springs in alof the offsets in alinement. The body springs are connected by helical tie members 6 which 55 Second, to provide a unit of this character embrace or encircle these alined offsets, the engagement being effected by rotating the tie members. This provides a very resilient connection for the body springs and at the same time allows the springs to yield freely. 60

The border springs 7 are of the helical or spiral type, the coils thereof being elongated and relatively narrow and having substantially straight outer reaches 8. The end coils of these border springs are provided with 65 inwardly projecting arms 9 which terminate A structure which embodies the features members 11 which correspond to the tie 70

The border tie members 12 encircle the Fig. 1 is a perspective view of a mattress outer reaches of the end coils of the border springs.

With this arrangement the several springs 75 of the assembly are effectively supported Fig. 2 is an enlarged fragmentary view and at the same time the unit is very flexible. illustrating the relation of the border The outer or border springs provide a subthe edge of the covering as the ends of the 80 springs may be arranged quite close together and their outer reaches lie in substantially the same plane.

> By thus forming the border springs they may be readily somewhat stiffer than the 85 body springs which is a desirable feature.

Another advantage of the construction is that the length of the arms 9 can be easily varied providing a spring unit of the desired My improved assembly in the embodiment width without the necessity for changing the 90 filler units.

I have illustrated and described my improvements as embodied in a mattress assembly or filler unit. I have not attempted to illustrate the parts in their relative proportions and the parts in Fig. 1 are conventionalized. My invention is readily adapted for a variety of uses which I have not attempted to illustrate and describe as it is believed that this disclosure will enable those skilled in the art to embody or adapt the same as may be desired.

Having thus described my invention what I claim as new and desire to secure by Let-

ters Patent is:

1. A spring assembly for mattresses and the like comprising spiral body springs arranged in rows and having oppositely disposed offsets in their terminal coils, helical tie members encircling the offsets of adjacent rows of said body springs, spiral border springs having elongated and relatively narrow coils disposed in alined parallel relation to the side of the assembly and with the ends of the coils in close proximity providing a substantially continuous covering supporting surface, the end coils of said border springs terminating in inwardly converging arms having offsets at the ends thereof disposed adjacent the offsets of the adjacent row of body springs, helical tie members encircling the offsets of said arms and adjacent body springs, and helical border tie members encircling the outer reaches of the end coils of the border springs.

2. A spring assembly comprising spiral border springs having elongated and relatively narrow coils disposed in alined parallel relation to the side of the assembly and with the ends of the coils in close proximity providing a substantially continuous covering supporting means, the end coils of said border springs terminating in inwardly projecting arms having offsets therein, a row of body springs having offsets in the end coils thereof disposed adjacent the offsets of said arms, helical tie members encircling the offsets of said arms and adjacent body springs, and helical border tie members encircling the outer reaches of the end coils of the border

springs.

A spring assembly for mattresses and the like comprising spiral body springs arranged in rows and having oppositely disposed offsets in their terminal coils, helical tie members encircling the offsets of adjacent rows of said body springs, spiral border springs having elongated and relatively narrow coils disposed in alined parallel relation to the side of the assembly and with the ends of the coils in close proximity providing a substantially continuous covering support-

diameters of the body springs, providing spe- ing surface, the end coils of the border cial filler springs, or other means resorted to springs terminating in inwardly projecting in the production of mattress and cushion extensions having offsets disposed adjacent the offsets of the adjacent row of body springs, helical tie members encircling the 73 offsets of said inwardly projecting extensions and adjacent body springs, and helical tie members encircling the outer reaches of the end coils of the border springs.

In witness whereof I have hereunto set my 75

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