Aug. 19, 1930. O. C. COMPIN 1,773,170

RESILIENT BENCH

Filed Sept. 6, 1927

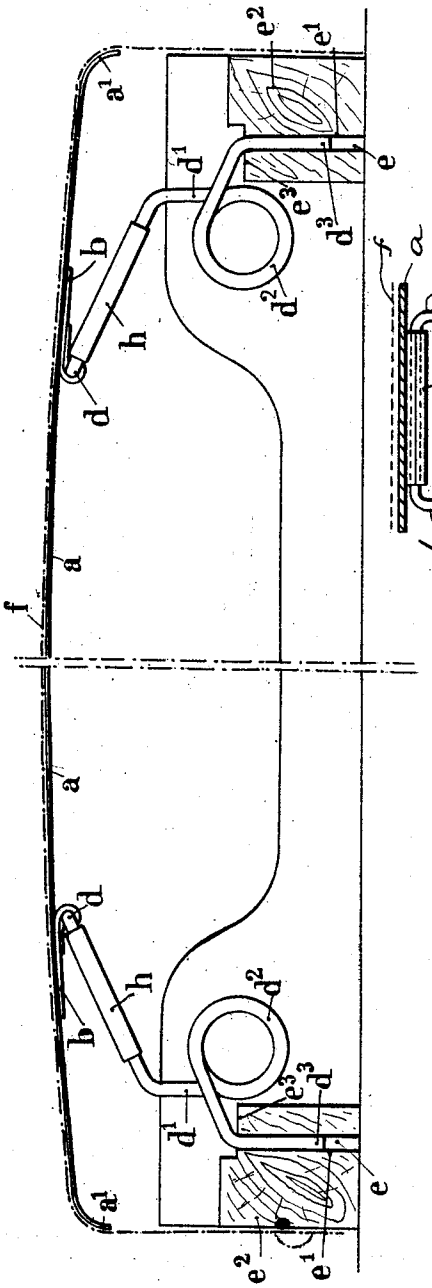

Fig. 1.

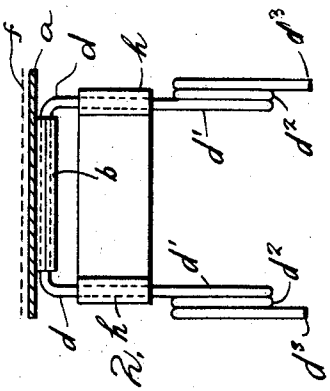

Fig. 2.

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UNITED STATES PATENT OFFICE

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RESILIENT BENCH

Application filed September 6, 1927, Serial No. 217,662, and in France January 17, 1927.

My invention relates to an elastic bench or seat.

One of the objects of my invention is to provide an elastic element for a device of this kind, which can be easily connected to and disengaged from the frame of the device.

Another object of my invention is to provide each element with a blade spring, which is connected at each of its ends to the frame of the device by means of two coil springs, these coil springs being laterally aligned with each other to form a pair or couple.

Another object of my invention is to provide a seat construction, comprising frame members having substantially vertical sockets into which the ends of the coil springs fit. These coil springs are turnably connected to the blade springs and the construction is substantially symmetrical at both ends. Hence, each blade spring can be reversibly connected to the frame members, so that the manufacturing and assembly of the device is facilitated.

Another object of my invention is to provide a construction in which the bottom of each coil spring has a simple vertical sliding engagement with the frame, so that the spring can be easily disengaged from the frame.

The two coil springs forming a pair can be formed from a single continuous wire, or from two separate parts. In either case the end adjacent to and under the blade spring passes through an eyelet or hinge member which is fixed to the blade spring.

An embodiment of my invention is set forth in the annexed description and drawings.

Fig. 1 is a side elevation partially in section illustrating a resilient element of the bench or seat. Fig. 2 is a side elevation.

As shown in the drawing, the elastic bench or seat is composed of a number of elements, each element comprising a blade spring a made of steel or wood whose ends a' are downwardly bent.

Eyelets or pivot members b are affixed by means of rivets to the underside of each end of each spring a. These eyelets or pivot members b receive the inwardly bent ends of the rods to wires d which constitute the upper ends of the coil springs d'. The upper end of a pair or couple of springs d' pass through openings in a sleeve member h which serves as a coupling means to hold the adjacent ends of said wires d parallel. The wire of each spring d' is then downwardly bent and formed into one or more coils d^2. The free end d^3 of each spring d' is downwardly bent and is engaged in a lining sleeve e which is located within a bore e' formed in a shoulder e^3 of the frame member e^2.

I claim:

In combination, a seat having a pair of frame members, a leaf spring located intermediate said frame members, eyelet means connected to an end of the underside of said leaf spring and located transverse to said leaf spring, a pair of coil springs having upper and transversely bent ends located within said eyelet means, the lower ends of said coil springs being located in substantially vertical recesses in the adjacent frame member, and a spacing member located below said eyelet means and substantially aligned therewith, said spacing member having sleeve portions through which the upper parts of said coil springs pass.

The foregoing specification of my "improved resilient bench" signed by me this 1st day of August, 1927.

OCTAVE CHARLES COMPIN.