

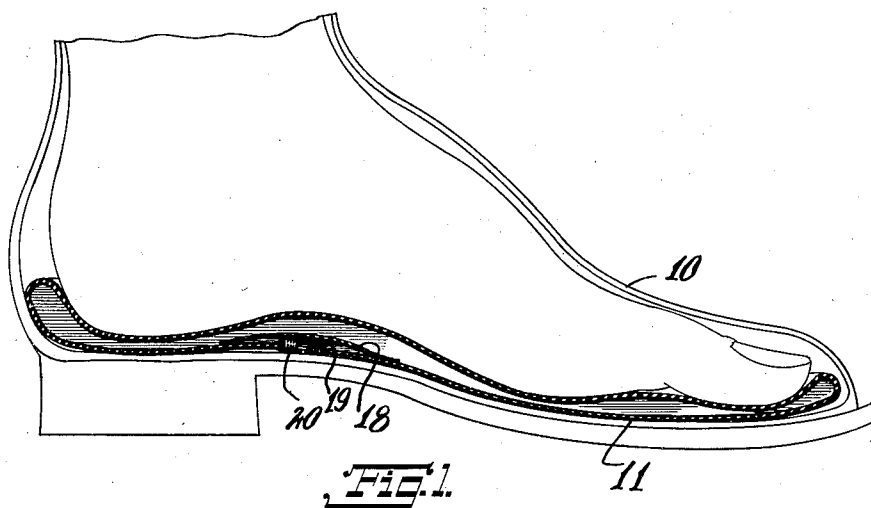
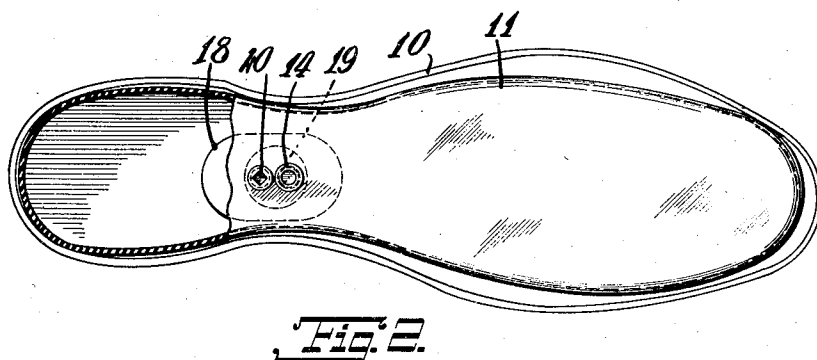
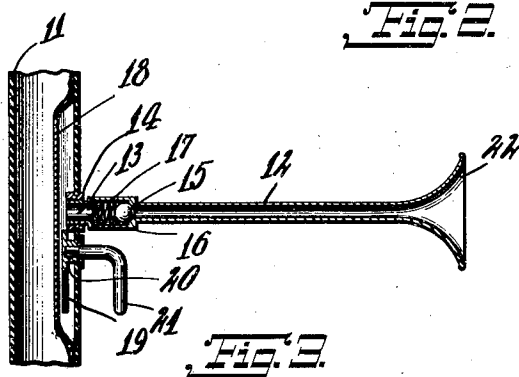
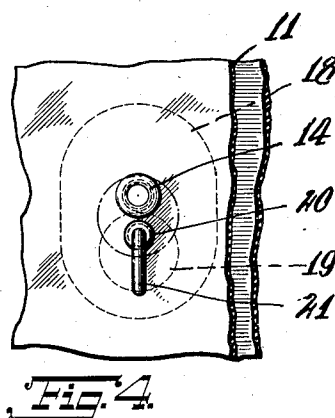
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W. FISCHER

RESILIENT SOLE PAD FOR SHOES

Filed Aug. 23, 1927



INVENTOR
William Fischer
BY *John H. Polach*
ATTORNEY

UNITED STATES PATENT OFFICE.

WILLIAM FISCHER, OF NEW YORK, N. Y.

RESILIENT SOLE PAD FOR SHOES.

Application filed August 23, 1927. Serial No. 214,851.

The present invention relates to improvements in foot-wear, particularly in the sole-pads of shoes, and it is the principal object of the invention to provide a removable pneumatic pad which can be inflated to any desired suitable degree for resiliently supporting the foot.

Another object of the invention is the provision of a sole-pad for foot-wear of simple and inexpensive construction, yet efficiently cushioning the foot to avoid falling arches, etc.

A further object of the invention is the provision of a pneumatic sole-pad having a self-closing valve to avoid the escape of air after inflation, and equipped with a suitable valve, the parts being so constructed as to avoid injury to the foot or undue pressure against the same.

These and further objects and advantages of the invention will become more fully known, as the description thereof proceeds, and will then be specifically pointed out in the appended claim.

In the accompanying drawing, forming a material part of this disclosure:

Fig. 1 is a fragmentary longitudinal section of a shoe equipped with a pneumatic sole-pad constructed according to the present invention.

Fig. 2 is a bottom plan view thereof, partly in section.

Fig. 3 is a sectional view of part of the pad, illustrating the valve arrangement and the packing.

Fig. 4 is a fragmentary plan view thereof.

A shoe 10 has removably placed upon its inner sole a pad 11, having substantially the shape of the sole, and adapted to be inflated by means of a removable inflation tube 12, the hollow stem 13, of which removably engages a suitable socket 14, in the pad. Intermediate its ends the tube 12 is equipped with the customary ball-valve 15 within a suitable casing 16, and pressed against its seat by a spring 17.

A suitable flap 18 within pad 11 is adapted to close the opening of the socket 14 after removal of the inflation tube, by the inner

pressure prevailing in the tube after its inflation.

A valve 19 is arranged above flap 18 and has a socket 20 formed therewith into which the edged end of an operating handle 21 fits, to be frictionally held therein, and allowing a ready withdrawal of the same upon completion of the inflating process.

The device operates as follows:

The pad 11 is inserted into the shoe, so that it can be inflated by means of the inflation tube 12, having an outer flaring mouth 22. The escape of the air through the tube 12, is prevented by the ball-valve 15. Then the valve 19 is swung, by means of its handle 21, to cover the openings in the pad in sockets 14 and 20, and handle 21 and tube 12 are then removed. It will be clear that the pressure prevailing within the pad will press flap 18 against said valve and constitute an air tight closure, so that no air can escape from the pad.

While I have described and shown one example of the practical embodiment of my invention, it will be clear that the same may be subjected to many changes, such as fall within the scope of the appended claim without departure from the spirit of the invention and the principle involved.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is:

A pneumatic sole-pad for shoes adapted to be placed upon the sole of the shoe, and comprising a socket adapted to receive the hollow stem of a removable valve-controlled inflation tube, a valve in said pad adapted to be frictionally engaged by the edged lower end of a removable operating handle to be operated thereby to close said socket, and a flap adapted to be pressed by the air pressure prevailing in the pad against said valve and socket to provide an air tight closure after removal of tube and handle from said socket and valve.

In testimony whereof I have affixed my signature.

WILLIAM FISCHER.