No. 751,741. PATENTED FEB. 9, 1904.

D. LYONS.

TROUSERS.

APPLICATION FILED DEC. 5, 1902.

NO MODEL.

Fig. 1

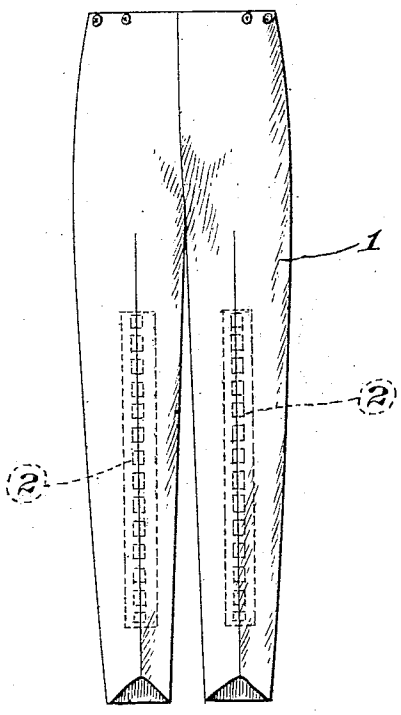


Fig. 2

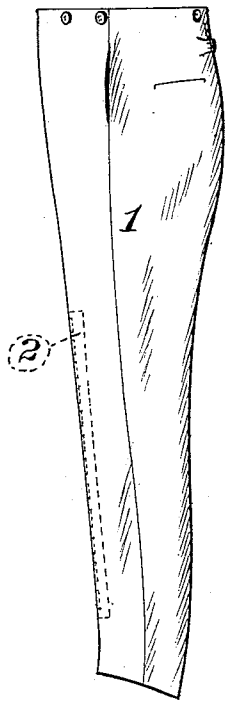


Fig. 4

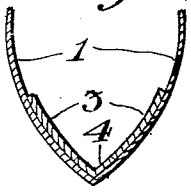


Fig. 5

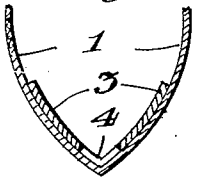
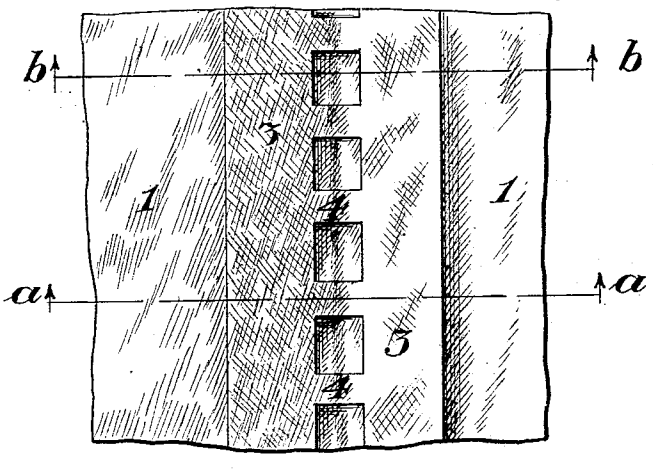


Fig. 3



Witnesses:
Ira L. Perry
Herman M. Krueger

Inventor:
David Lyons
by Jones & Addington
attys

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

No. 751,741. Patented February 9, 1904.

UNITED STATES PATENT OFFICE.

DAVID LYONS, OF CHICAGO, ILLINOIS.

TROUSERS.

SPECIFICATION forming part of Letters Patent No. 751,741, dated February 9, 1904.

Application filed December 5, 1902. Serial No. 133,987. (No model.)

To all whom it may concern:

Be it known that I, DAVID LYONS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Trousers, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to improvements in trousers. It is well known that this class of apparel soon lose their shape from stretching, which is caused by the bending of the knee of the wearer. Thus stretched at the knee the trousers are said to "bag." To overcome this stretching or "bagging" of the trousers at the knee is the object of my invention, and this I accomplish by reinforcing the knees thereof.

In the accompanying drawings, illustrating one way of carrying out my invention, Figure 1 is an elevation of trousers embodying my improvement, the reinforces being indicated in dotted lines. Fig. 2 is a side elevation thereof. Fig. 3 is a view of my reinforce applied to a piece of cloth. Figs. 4 and 5 are transverse sectional views taken through the trousers at the front portion of one knee, the sections cutting the reinforce on the lines *a a* and *b b* of Fig. 3, respectively.

In one manner of carrying out my invention I provide trousers 1 with a reinforce 2 at the knee thereof. Each reinforce consists, preferably, of two parallel strips 3 of some flexible material which will stretch but a minimum. These strips are secured, preferably, by some adhesive material to the inside of the trousers at the knee, preferably in such position that the usual crease in the leg of the trousers is between them. The two parallel strips are connected to each other by a series of cross-strips or bridges 4, which are composed of the same kind of material as the longitudinal parallel strips and are preferably secured to the trousers in a like manner. These cross-strips or bridges are preferably woven integral with the longitudinal strips and are preferably separated from one another.

The parallel strips prevent the trousers from stretching longitudinally at the front of the knee, and the cross-strips do not permit transverse stretching at this point. Moreover, this reinforce will forestall any tendency of trousers to shrink at the portion which it reinforces.

Trousers provided with my reinforce never bag at the knees, and therefore would not have to be continually repressed. Furthermore, with a reinforce of my preferred construction the appearance of the trousers would not be unlike that of trousers generally worn which have not lost their shape. A reinforce of an imperforate piece of material would cause the trousers to have a stiff and unnatural appearance at the knee. It is otherwise, however, with a reinforce of a construction similar to that which is herein described as the preferred embodiment of my invention. Trousers with a reinforce of such construction may be readily creased between the longitudinal parallel strips and will bend at the knee like trousers which do not have my reinforce. The open portion in the reinforce permit the trousers to readily bend at the knee even when creased. These openings, however, do not weaken the reinforcement of the trousers. Ordinarily trousers are not subjected to a great amount of strain transversely at the knees, and in consequence thereof it is not necessary to reinforce the trousers in that direction to the same extent which they should be reinforced longitudinally.

The longitudinal reinforcing-strip may be connected differently from the manner which is herein shown and described to reinforce the trousers transversely and yet not sacrifice the object or principles of my invention.

It will be understood that I do not limit myself to the specific form of the invention which is herein shown and described, as it is only one way of carrying out the same.

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

1. The combination with trousers, of strips of inelastic flexible material secured to the legs thereof on opposite sides of the position of the usual crease therein for preventing longitudinal stretching of the legs of said

trousers, and means connecting said strips for preventing the transverse stretching of the trousers between said strips, substantially as described.

2. The combination with trousers, of a reinforcing-strip of inelastic flexible material secured on each side of the position of the usual crease in the legs of said trousers for preventing longitudinal stretching of said trousers, and a plurality of strips or bridges also of flexible inelastic material connecting said strips to prevent transverse stretching of the trousers between the longitudinal strips, substantially as described.

3. The combination with trousers, of reinforcing-strips of flexible inelastic material secured in the legs of said trousers on opposite sides of the usual crease therein for preventing longitudinal stretching of the trousers, and a plurality of strips also of inelastic flexible material connecting said longitudinal strips and formed integral therewith for preventing transverse stretching of the trousers between said longitudinal strips, substantially as described.

4. The combination with trousers, of a reinforcing-strip of inelastic flexible material secured to the legs thereof on opposite sides of the position of the usual crease therein, said strips being spaced apart, and a plurality of strips of similar material connecting said longitudinal strips and separated from one another to prevent transverse stretching of the trousers between said strips, substantially as described.

In witness whereof I have hereunto subscribed my name in the presence of two witnesses.

DAVID LYONS.

Witnesses:
EDWIN B. H. TOWER, Jr.,
M. H. ROCHFORD.