

C. R. P. KLEM.
STRAIGHTENING BELT.

No. 470,839.

Patented Mar. 15, 1892.

Fig. 1.

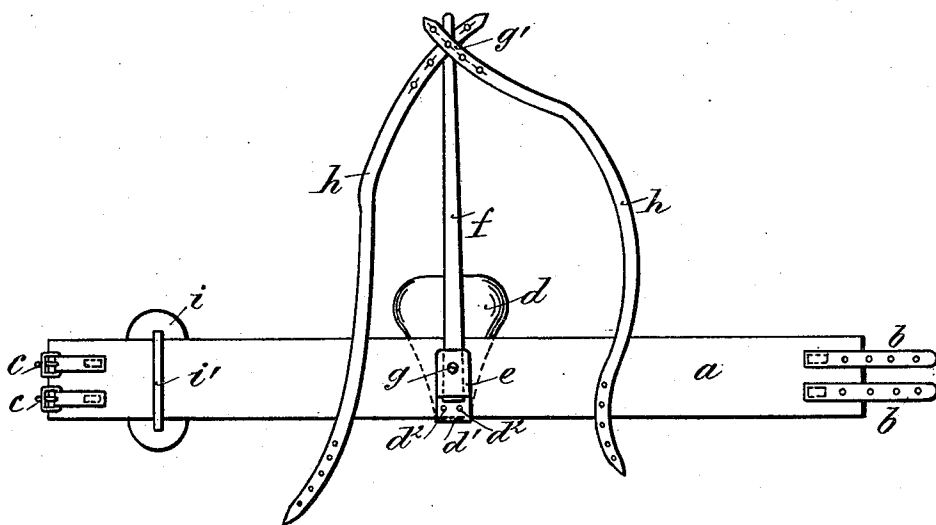
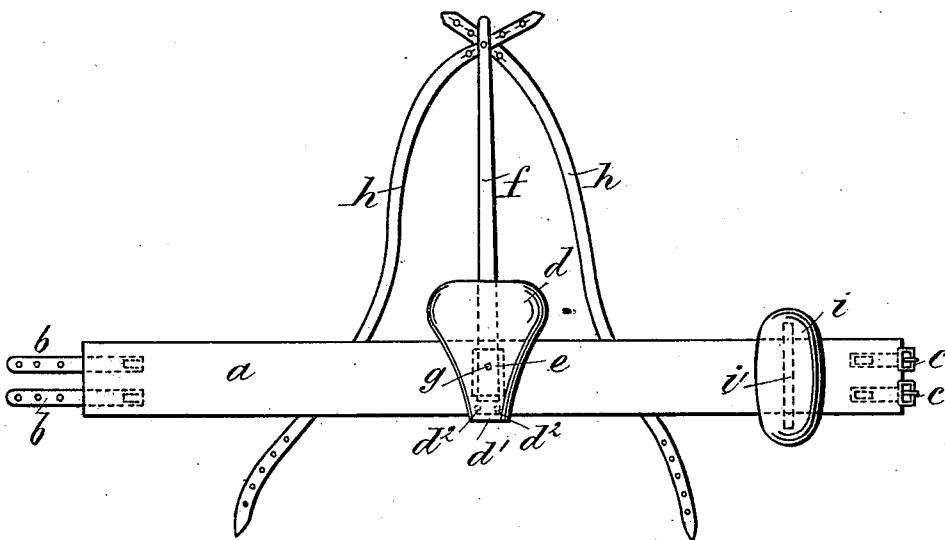


Fig. 2.



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(No Model.)

2 Sheets—Sheet 2.

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Fig. 3.

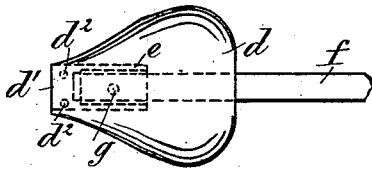


Fig. 4.

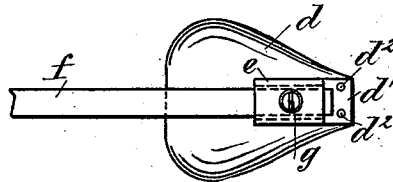


Fig. 5.

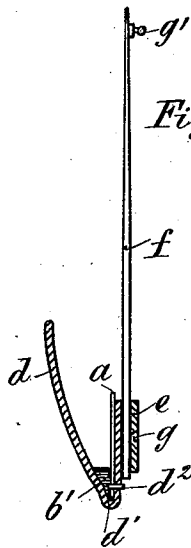


Fig. 6.

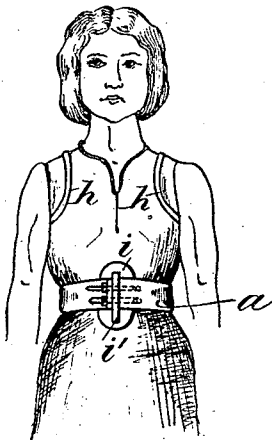


Fig. 7.



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UNITED STATES PATENT OFFICE.

CARL ROBERT PETER KLEM, OF RIGA, RUSSIA.

STRAIGHTENING-BELT.

SPECIFICATION forming part of Letters Patent No. 470,839, dated March 15, 1892.

Application filed May 15, 1891. Serial No. 392,920. (No model.)

To all whom it may concern:

Be it known that I, CARL ROBERT PETER KLEM, a subject of the King of Prussia, German Emperor, residing at Riga, Russia, have
5 invented certain new and useful Improvements in Straightening-Belts, of which the following is a specification.

The accompanying drawings illustrate my improved belt.

10 Figures 1 and 2 show a front and a rear view thereof as it is applied on either side of the human body. Figs. 3, 4, and 5 are details of construction. Figs. 6 and 7 show the belt fixed to a child in front and at the back.

15 *a* is a belt, of leather, which surrounds the hips more or less firmly, Figs. 6 and 7, and is buckled according to requirements by means of two small straps *b b* and of two buckles *c c*. On this belt is fixed a heart-shaped pad
20 *d*, covered with leather, and secured at its lower end by the rivets *d² d²*. Upon the end *d²* is arranged a sheath *e*, Figs. 3, 4, and 5, to which is fixed, by means of a set-screw *g*, a steel bar or spring *f'*. In the angle formed
25 by the pad *d*, with its arm *d'*, carrying the sheath *e*, is placed an elastic wedge, of cork *b'*, Fig. 5, which imparts at this place greater strength to the pad, the latter being fixed at a distance from the belt. At the upper end
30 of the bar *f'* is arranged a button or knob *g'*, to which are fixed two shoulder-straps *h h*, which are placed, as shown in Figs. 6 and 7, over the shoulder of the wearer, and which may be lengthened or shortened, according as re-
35 quired, by means of the perforations formed therein. In front of the belt *a* is arranged an adjustable belly or breast shield *i*, fixed by means of a strap *i'*, and consisting of a metal plate covered with leather.

40 The belly or breast shield may be dispensed with, if desired, and forms no important part of the adjustable belt.

My improved adjustable belt operates as follows: The pad *d* is firmly pressed by the belt *a* against the body in close proximity to the hip-bones. As the spring or bar *f'* forms an acute angle with the pad, Fig. 5, the said bar is laid slantingly at the top, and is at first off the body, its upper end being afterward secured against the said body by the shoulder-
50 straps *h h*. In consequence thereof the upper end of the bar will obviously exert a backward pull through the strap *h* upon the shoulders, while the pad *d* exerts a forward pressure upon the hip-bones and thus supports
55 their curvatures or archings.

The belly-shield *i* has for its object to prevent the belt from pressing upon or cutting into regions in the vicinity of the stomach.

The belt can be worn upon a light under-
60 vest.

Having now particularly described and ascertained the nature of this invention and in what manner the same is to be performed, I declare that what I claim is—

65 An adjustable belt for the prevention of imperfect growth of the human body, consisting of an acutely-angular crank-lever formed of a steel bar *f*, a spring plate or pad *d*, buckled to the human body by means of shoulder-
70 straps *h h*, fixed at the upper end of the bar *f*, a hip-strap fixed at the lower end of the said bar so as to exert through the straps *h h* a backward action upon the shoulders, and through the plate or pad *d* an elastic forward pressure
75 upon the hip-bones of the wearer, and the shield *i*, as hereinbefore described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CARL ROBERT PETER KLEM.

Witnesses:

AUGUST TKEN,
ALFRED GREIBE.