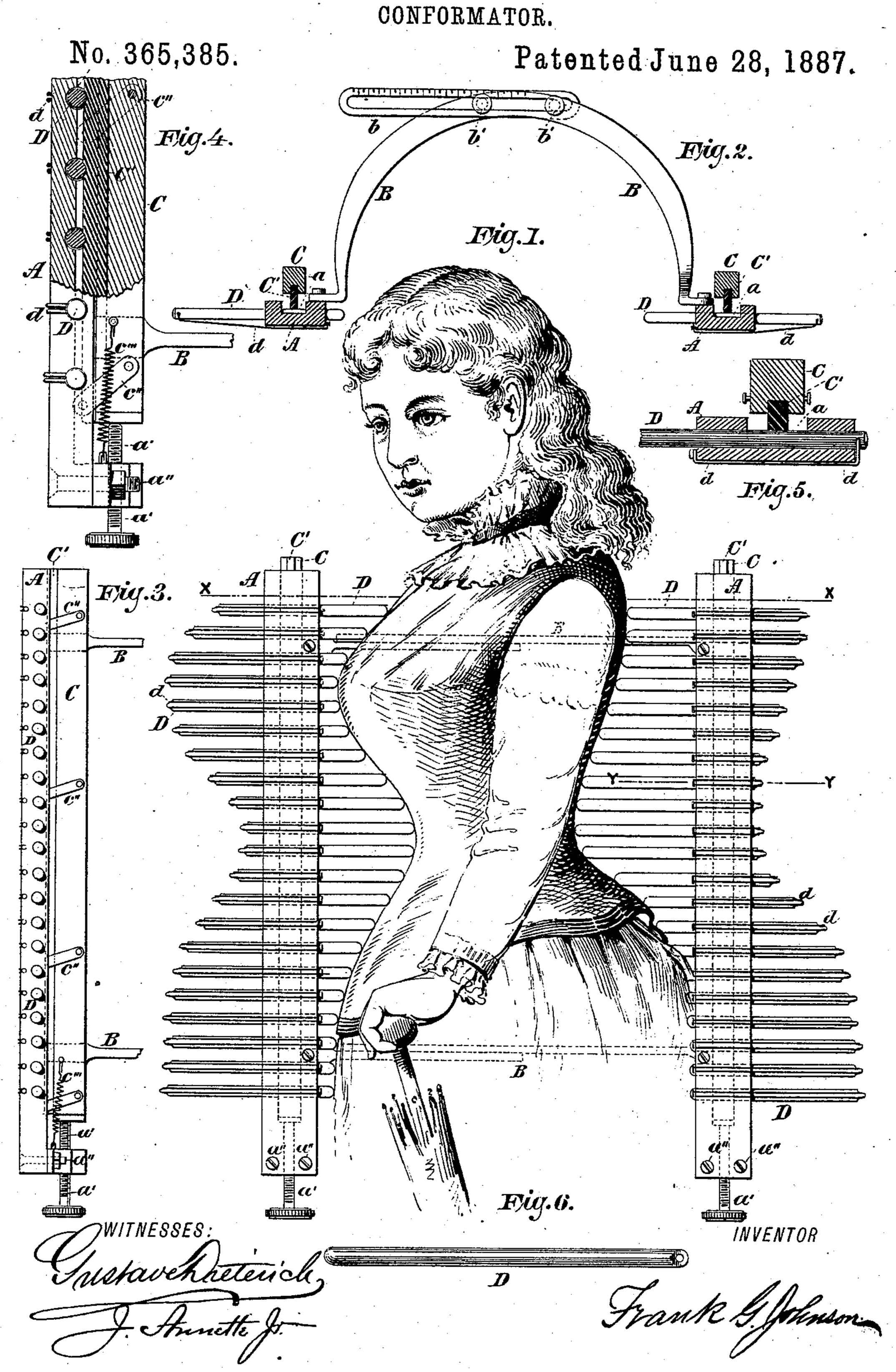
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United States Patent Office.

FRANK G. JOHNSON, OF BROOKLYN, NEW YORK.

CONFORMATOR.

SPECIFICATION forming part of Letters Patent No. 365,385, dated June 28, 1887.

Application filed March 30, 1887. Serial No. 233,064. (No model.)

To all whom it may concern:

Be it known that I, Frank G. Johnson, a citizen of the United States, residing in the city of Brooklyn, in the county of Kings and State 5 of New York, have invented a new and useful conformator for taking the form and size of various parts of the human body, to facilitate the fitting thereto of various garments, especially corsets, waist-linings, jackets, &c., of 10 which the following is a specification.

The object of my invention relates not alone to taking the form of any particular part of the body, as it is applicable to the taking of the form of the limbs even; nor is its use lim-15 ited to merely taking the shape of different parts of the body, as it will not only take the form but the size as well of different parts of the human figure. Neither is it limited to taking the various vertical lines of the body, 20 as it is equally adapted to taking the transverse forms and dimensions of the human frame; but its chief use consists in taking the forms and dimensions of the waist, hips, shoulders, and breasts, or what constitutes the hu-25 man bust, to thereby facilitate the cutting, shaping, and sizing therefor of tight setting garments of various kinds, especially corsets, waist-linings, dress-waists,&c. I attain these objects by the mechanism illustrated in the 30 accompanying drawings, in which—

Figure 1 illustrates a vertical view of the device in its application to the bust for taking the central back and front vertical lines of the figure, together with its diameter; Fig. 2, a 35 transverse view through the line x x of Fig. 1; Fig. 3, an edge or side view; Fig. 4, a similar view of same enlarged, a portion of which is broken away to give an interior view of some of the parts; Fig. 5, a transverse view seen on the line yy, Fig. 1. Fig. 6 shows one of the sliding or formative rods.

Similar letters refer to similar parts through.

out the several views.

Briefly stated, my device consists of two pe-45 culiarly-constructed parallel bars, A A, held together by two adjustable semicircular connecting cross-bars, B B, the two parallel bars A A being provided with numerous adjustable sliding rods, D D D, actuated by delicate 50 rubber springs d d d. When these sliding rods D D D are all pushed back, as shown by the one on the left-hand side of Fig. 2, and

held in this position by the clamping back C C, the device is ready to be placed over the bust, when, by releasing the sliding rods D 55 D D, they will each respectively be thrown by the action of the springs d d d against the bust or figure, when and where they are to be held in their respective positions, as seen in Fig. 1, by means of the clamping-bars C.C. The 60 device is then removed from the figure and laid on a sheet of paper and a line drawn from point to point of the several sliding rods D D D, which will represent the form and size of whatever portion of the bust to which it may 65 be so applied.

A more minute and particular description and operation of the several parts are as follows: For convenience the bars A A, which hold and in which slide the rods D D D, we 70 will term "holding - bars;" the bars C C which bind and hold in fixed position the several sliding rods D D D, the "clamping-bars;" the sliding rods D D D the "formative-rods;" the springs which actuate the rods DD D the 75 "actuating-springs," and the two adjustable semicircular connecting cross-bars B B the

"adjustable connecting-bars."

The holding-bar A consists of a strip of wood (the transverse view of which is best 80 shown in Fig. 5) provided with a series of transverse parallel holes, and having the central portion of one side of the strip cut away in the form of a gutter down to about the center of the holes, as shown by a in Figs. 2 and 85 5. Over and parallel with this gutter a is mounted the clamping-bar C, which is united to the holding-bar A and acts upon the formative rods D D D by means of the metallic hinges c'' c'' c'' c''. The longitudinal view of 90 the clamping-bar C is best shown in Figs. 3 and 4. The clamping-bar C is provided (on the face that comes in contact with the formative rods D D D) with a yielding or adjustable face by means of a rubber strip, C', 95 let into the clamping-bar, to make sure of its coming in contact with and binding and holding in their respective positions each and every of the formative rods D D D, which are round sticks freely sliding in the holes in bar 100 A. The clamping-bar C is operated to hold the formative rods D D in position by means of the thumb-screw a', which works in a fixed nut, a'', secured to one end of the holding-bar

A, which, when it (the screw a') is turned up, presses the clamping-bar C against the formative rods D D D. When it is required to release the formative rods and allow the actuat-5 ing-springs d d d to act upon and adjust them, it is only necessary to turn back the thumbscrew a', when the back-acting spiral spring c'''; Figs. 3 and 4, will draw the clamping-bar C back against the end of the screw a', which 10 partially lifts the clamping-bar away from the holding-bar and liberates the formative rods and allows them to be controlled by the actuating springs d d d. These actuating springs are light rubber straps or loops, one end of 15 each being fastened to the inner edge of the holding-bar A and the other end to the outer end of the formative rods D D D by passing through an opening or hole in the end of the rods. (Seen in Fig. 6.) The two holding-20 bars and what belongs to them are made in every way alike, and are united and held opposite to each other by the adjustable connecting-bars B B. These connecting-bars B B are joined to the holding-bars at each end by 25 a simple bolt and nut, which, if desired, forms a partially-swiveling joint, in order to allow one of the holding-bars to stand higher or lower than the other when, by doing so, a better adjustment of the device to the figure can 30 be made. The connecting bars B B are made flat and thin, to render them light, yet stiff, and semicircular, so as to pass around the figure or form of the person, and they are made each in two parts and held together by 35 two thumb-screws, b' b', and one part is provided with a longitudinal slot, b, through which pass the thumb-screws b' b'. The object of this adjustable joint is to render the conformator adaptable to persons of different 40 forms and sizes. By lengthening one or the other of these connecting bars more than the other a tapering space is formed between the inner ends of the formative rods D D D. By shortening both of them to their minimum 45 length the size and form of even the leg of a person can be taken, and by extending them to their maximum length the form and size of the largest person can be taken.

The object of the graduated scale marked on the slotted portion of each of the two connecting-bars is to note the respective position of each of the two parts, so, if it be necessary to loosen the joints in order to remove the device from the person, they can be, after being removed, again placed in the same position, in order to restore the same position of the forma-

tive rods D D D.

Having thus described the construction and function of the several parts of my invention, its operation is briefly described as follows: Having crowded back the formative rods D D D of both sides of the device by placing their inner ends on the edge of a table or counter into the position shown by the left-hand side of Fig. 2, the thumb-screws a'

a' are then to be turned up sufficiently tight to hold the formative rods in this position against the force of the actuating springs ddd. Then set or spread the connecting-bars BB sufficiently far apart or extended as to embrace 70 the bust or figure between the two sides of the device. Place it over the figure, so as to embrace any desired part or lines of the bust between the two sides of the device. Then turn back the thumb screws a'a', which will release 75 the formative rods D D D and allow the actuating-springs d d d to throw the several formative rods gently against the figure or form of the person. Then turn up the thumb-screws a' a' again sufficiently tight to bind and hold so each and all of the formative rods in their respective positions. The device is now removed from the person, and being laid down on a large sheet of paper, a line is drawn from point to point of the inner ends of the formative \$5 rods D D D, which will give the exact form and full size of the bust where the device is applied. The conformator in this way can be applied and employed to take any vertical or transverse line of the human figure. When 90 only a single line of the bust, either vertical or transverse, is desired to be taken without the opposite or counter line, either of the holding bars A A can be detached from the coninecting bars BB, and employed independently 95 of the rest of the apparatus by simply crowding it against the bust, so as to allow the formative rods to rest on the line of the form desired to be taken, and turning up the thumb-screw a', and from the points of the formative rods 100 scribe the needed line on paper, as above set forth.

Having thus described the object, construction, and operation of my invention, what I claim as new and useful, and desire to secure 105

by Letters Patent, is—

1. In a garment-conformator, the combination of the holding-bar Λ , formative rods D D D, actuating-springs d d d, and clamping-bar C, substantially as and for the purposes described.

2. In a garment-conformator, the combination of the holding-bar Λ , formative rods D D D, actuating springs d d d, clamping bar C, having one yielding cushion-face, C', thumbscrew a', and back-acting spring c''', substantially in the manner and for the purposes set forth.

3. In a garment-conformator, the combination of the holding-bars A A, formative rods D 120 D, actuating-springs d d d, clamping-bar C C, having the cushions C' C', thumb-screws a' a', counteracting-springs c'' c'', and adjustable connecting-bars B B, substantially in the manner and for the purposes described.

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Witnesses:
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