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J. W. GATELY

GRIPPING DEVICE FOR BANDS, BELTS, AND THE LIKE

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Fig. 1.

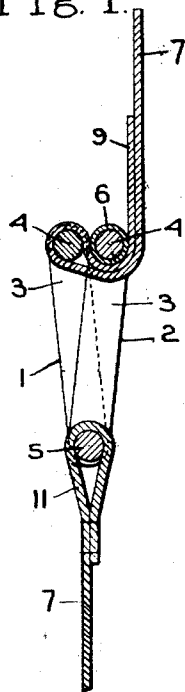


Fig. 2.

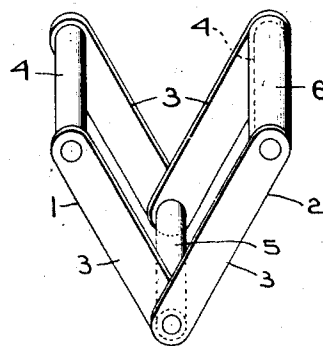
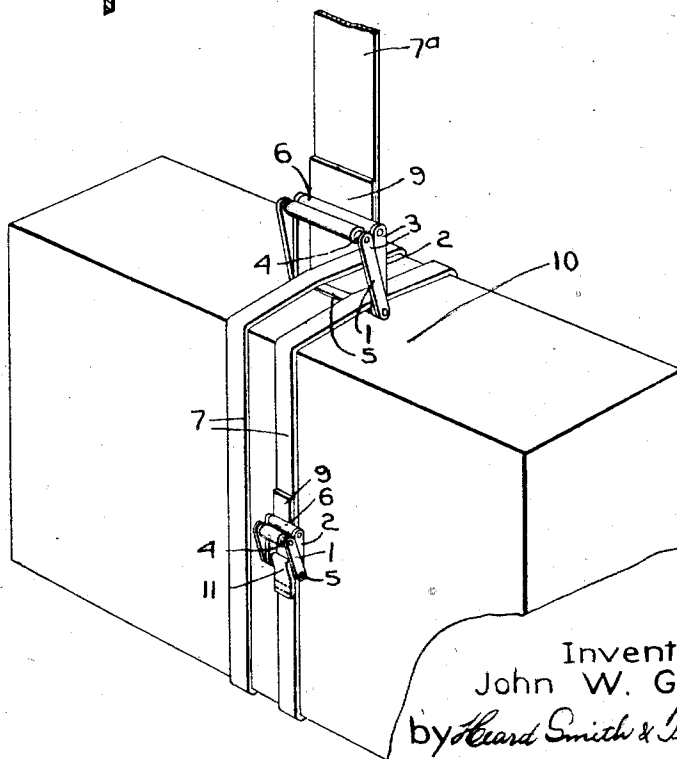


Fig. 3.



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UNITED STATES PATENT OFFICE.

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GRIPPING DEVICE FOR BANDS, BELTS, AND THE LIKE

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This invention relates to a novel gripping device for use in connection with bands, belts, etc., and by which the band or belt may be anchored or gripped.

5 In the handling of pianos and other large articles it is customary to place a band around the article and to employ some kind of a gripping device for gripping the ends of the band together, the gripping device functioning somewhat as a buckle.

10 My invention relates particularly to a gripping device of this nature. The novel features of the invention will be more fully hereinafter set forth.

15 In the drawings wherein I have shown a selected embodiment of my invention, Fig. 1 is a sectional view showing the manner in which the device is used for adjustably connecting together two ends of a band;

20 Fig. 2 is a perspective view of the gripping device;

Fig. 3 is a perspective view illustrating the way in which the device may be used in handling a case or other article.

25 The gripping device herein shown comprises two gripping members designated generally by 1 and 2. The two gripping members 1 and 2 are pivotally connected together at one end and each comprises the two side bars 3 which are connected at their other end by a suitable pin or spacing member 4. The pivotal connection between the two gripping members is herein accomplished by means of a rod or pin 5, the side bars 3 of each member being pivotally mounted on said rod 5. One of the bridging connections has a sleeve 6 loosely mounted thereon and which is freely rotatable.

30 In using the device for gripping the end of a band or belt 7 the band is passed under the two bridging members 4, between the sides 3 as shown at 8 and then the end 9 of the strip is passed between the two bridging members and then under the bridging member having the rotatable sleeve 6 thereon, said end 9 being confined between the body of the belt and said clamping member.

35 Assuming that the gripping device is suitably anchored an upward pull on the belt 7 will cause the two gripping members to shut together and grip the end of the belt as shown in Fig. 1. The grip thus obtained is one which

will firmly hold the band 7 from slipping. It will be noted that the band makes a sharp bend around the stationary bridging member 4 and is gripped between the two bridging members and then the end of the band is in turn gripped between the body of the fabric and the sleeve 6.

40 A device of this sort may be used in place of a buckle on a band 7 which encircles any article such as shown at 10 and when thus used one end of the strap 7 will be connected to the rod 5 in some suitable way as by means of a loop 11 formed in the end of the band and through which the rod 5 extends and the other end of the band will be clamped in the grip device as shown in Fig. 1.

45 Another way of using the device is also illustrated in Fig. 3 and this is for the purpose of connecting a second band 7^a to a pair of bands 7 which have been tied about the case or bundle 10. In this embodiment the gripping device is connected to the two bands 7 as shown in Fig. 3 by reason of the fact that said bands 7 pass over the rod 5. The band 7^a is gripped by the device as shown in Fig. 1.

50 A device embodying my invention is extremely simple to manufacture because the bands 7 can be secured to the gripping device by merely passing the end thereof underneath the bridging portions, thence around the stationary member 4 and underneath the sleeve 6 between the sides of the member 2. After the band has thus been threaded through the device it is tightened by drawing on the end 7. During this operation the rotation of the sleeve 6 facilitates the tightening action and when the band is tight and strain is put thereon it will be firmly gripped without danger of slippage.

I claim:

55 A gripping device for bands comprising two gripping members each presenting a pair of side bars, a pin separate from the side bars but rigidly connecting them at their outer ends and a pivotal pin also separate from the side bars but to which all four side bars are pivoted, and a sleeve loosely surrounding the pin at the outer end of one gripping member.

60 In testimony whereof, I have signed my name to this specification.

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