Sept. 8, 1959 C. P. MOLLA ET AL 2,903,048

STRAP OR WEBBING WITH COUPLING ENDS

Filed Nov. 27, 1957

Fig. 1.

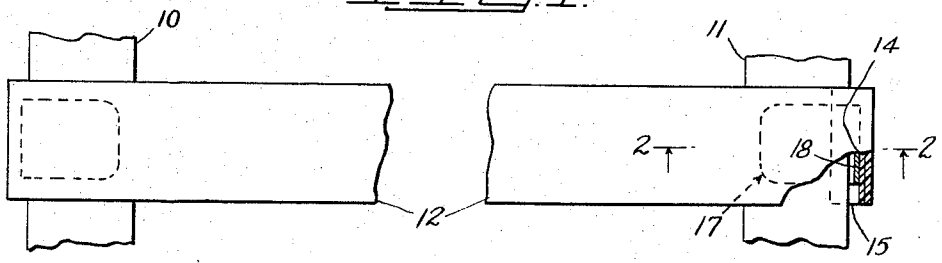


Fig. 2.

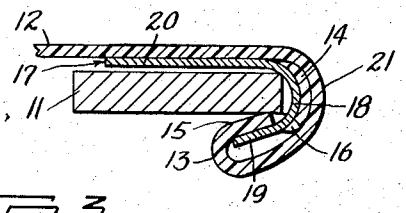


Fig. 3.

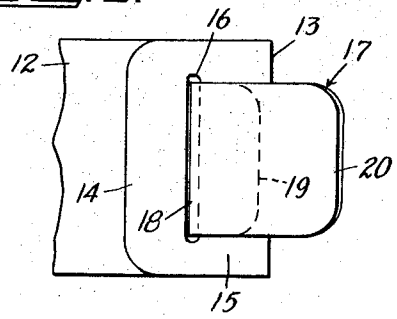
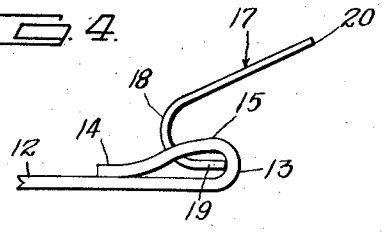


Fig. 4.



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STRAP OR WEBBING WITH COUPLING ENDS

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Application November 27, 1957, Serial No. 699,300

3 Claims. (Cl. 155—187)

This invention relates to straps or webbings used in forming seat and back rest supports in furniture. More particularly, the invention deals with the provision of coupling ends on straps or webbing of this type and kind, whereby the same may be quickly and easily attached and detached with respect to spaced supports.

Still more particularly, the invention includes the use of reinforcing hook-shaped members or clips coupled with ends of the straps for reinforcing the coupling with the supports.

The novel features of the invention will be best understood from the following description, when taken together with the accompanying drawing, in which certain embodiments of the invention are disclosed and, in which, the separate parts are designated by suitable reference characters in each of the views and, in which:

Fig. 1 is a broken plan view illustrating one strap or webbing arranged on spaced supports with part of the construction broken away and in section.

Fig. 2 is an enlarged section on the line 2—2 of Fig. 1.

Fig. 3 is a bottom plan view of one end of a strap or webbing showing the parts thereof in extended position; and

Fig. 4 is a side edge view of the structure as seen in Fig. 3.

Our invention deals with straps or webbings generally of the type and kind disclosed in prior application of one of the applicants, Serial Number 666,693, filed June 19, 1957, now Patent No. 2,878,861, granted Mar. 24, 1959.

To simplify the disclosure, one adaptation and use of a single strap or webbing is shown, it being understood that a multiplicity of these straps or webbings are employed in the construction of a seat and back rest of a chair or other similar piece of furniture.

In Fig. 1 of the drawing, we have shown at **10** and **11** spaced frame supports of a chair seat or back rest and at **12** is shown one of the straps or webbings which can be composed of any suitable material, depending upon the use for which it is intended. In some instances, the strap or webbing is composed of extensible plastic material so as to form a yieldable support in the seat and back rest.

As both end portions of the strap or webbing **12** are of the same construction, the brief description of one end will apply to both. Each end of the strap or webbing is folded upon itself to form a loop **13**, the end of the loop portion being cemented or otherwise fixed to the inner surface of the strap, as at **14**. Here, note particularly Fig. 4 of the drawing.

The part **15** of the loop **13** has a transverse aperture **16** therein at a point substantially midway between the attached end **14** and the outer extremity of the loop **13**. Mounted in this aperture is a hook-shaped reinforcing member or clip **17**, the hook end portion **18** of which has its free end **19** passed through the aperture **16** to be positioned within the loop **13**, which coupling or attachment is clearly illustrated in Figs. 3 and 4.

It will be noted, from a consideration of Fig. 4, that

the plate portion **20** of the member **17** extends angularly to the end portion **19** and, after the attachment as in Figs. 3 and 4 has been made, the member **17** is then rotated to dispose the end **20** upon the inner surface of the strap, as seen clearly in Fig. 2 of the drawing. This disposes the hook end portion **18** of the member **17** in the now rounded or curved part **21** of the strap, the strap having two thicknesses of its material disposed outwardly of the hook portion **18** by reason of location of the attached end **14** within the rounded portion **21**, as is clearly noted in Fig. 2 of the drawing.

In assemblage, one of the hook end portions of the strap is coupled with one of the supports as, for example, the support **10**, and the strap is stretched to forcibly engage the other hook end portion of the strap with the support **11** and, as a result of this coupling, the strap **12** will be under tension in bridging the space between the two supports **10** and **11**. It will appear from a consideration of Fig. 2 of the drawing that the hook ends **18** of the members **17** directly engage the supports so as to provide the reinforcing coupling of the strap with the support and avoid any stress or strain upon the member or members of the strap as a whole.

Whenever desired, one of the hook end portions of the strap can be forced outwardly to disengage the same from the adjacent support in removing the strap or webbing for cleaning or any other purpose. In this latter operation, it will be understood that the members **17** are freely detachable from the strap or webbing.

Having fully described our invention, what we claim as new and desire to secure by Letters Patent is:

1. A webbing of the character described, comprising an elongated wide strap, end portions of the strap being folded upon themselves to form loop ends disposed on one surface of the strap, one surface of each loop end having a transverse aperture terminating short of side edges of the strap at a position adjacent the attached end of the strap, a reinforcing member having a flat plate portion and a curved hook end, and said hook end having an angularly extending end portion passed through said aperture and arranged in said loop and, in the use of the webbing, the plate of said member and part of the hook end being disposed between the strap and the support with the curved portion of the hook directly engaging an edge portion of the support in reinforcing the attachment of the strap end with said support.

2. A webbing of the character described, comprising an elongated wide strap, end portions of the strap being folded upon themselves to form loop ends disposed on one surface of the strap, one surface of each loop end having a transverse aperture terminating short of side edges of the strap at a position adjacent the attached end of the strap, a reinforcing member having a flat plate portion and a curved hook end, said hook end having an angularly extending end portion passed through said aperture and arranged in said loop and, in the use of the webbing, the plate of said member and part of the hook end being disposed between the strap and the support, with the curved portion of the hook directly engaging an edge portion of the support in reinforcing the attachment of the strap end with said support, and the angular end of said member and the loop of said strap being disposed on an opposed surface of the support.

3. A webbing of the character described, comprising an elongated wide strap, end portions of the strap being folded upon themselves to form loop ends disposed on one surface of the strap, one surface of each loop end having a transverse aperture terminating short of side edges of the strap at a position adjacent the attached end of the strap, a reinforcing member having a flat plate portion and a curved hook end, said hook end having an angularly extending end portion passed through said

aperture and arranged in said loop and, in the use of the webbing, the plate of said member and part of the hook end being disposed between the strap and the support, with the curved portion of the hook directly engaging an edge portion of the support in reinforcing the attachment of the strap end with said support, the angular end of said member and the loop of said strap being disposed on an opposed surface of the support, and the strap being of two-ply thickness where it passes around the outer surface of the hook end of said member.

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