

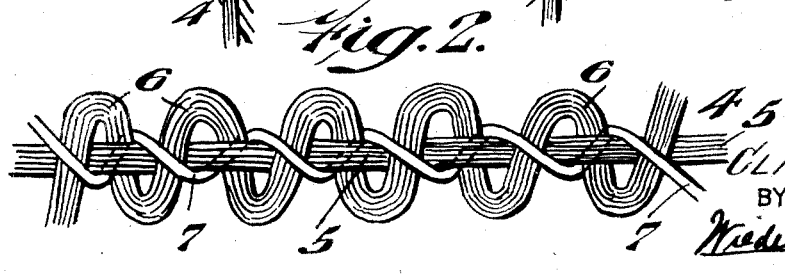
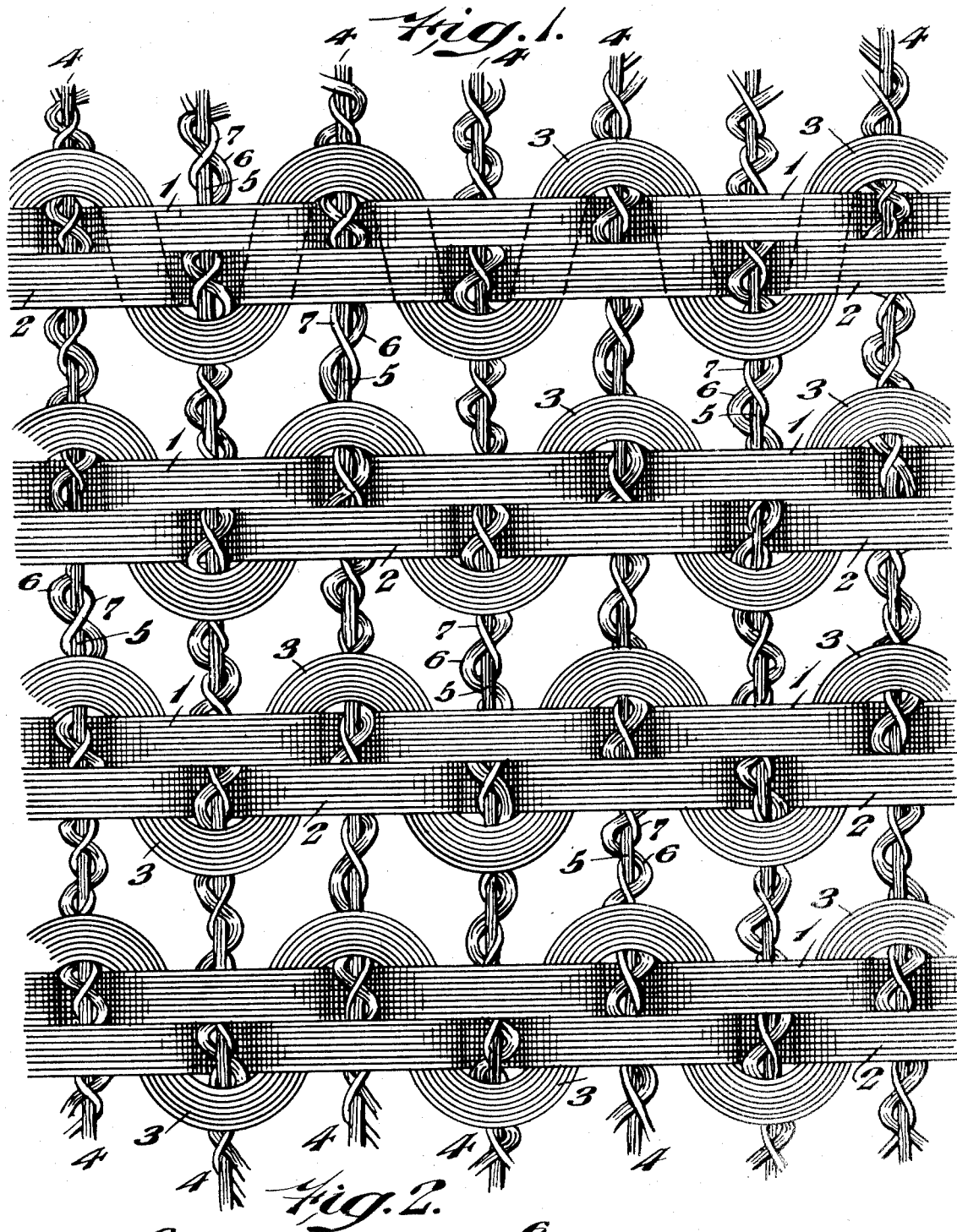
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TEXTILE FABRIC

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TEXTILE FABRIC.

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My invention relates to a new and useful textile fabric and relates more particularly to a woven fabric which will have the appearance and general characteristics of hand crocheted fabric used in hats and the like.

The object of my invention is to provide an inexpensive loom-woven textile fabric so constructed as not only to have the salient appearance and structural characteristics of hand crocheted fabrics of hats, but which will also possess the same inherent qualities of resiliency and body that hand crocheted fabrics possess.

With the above objects in view, my invention consists broadly of the provision of a composite weft thread comprising a core strand, a relatively stiff body strand wrapped loosely around said core strand in generally spiral formation and a binder thread wrapped around said core thread and said body thread thereby to bind the latter to the former at intervals, and suitable warp threads interlaced with said weft thread to produce a fabric of novel structure and characteristics.

With the above objects in view, my invention consists more particularly in forming a fabric of three sets of warp threads of any suitable material, such as cellulose and a composite weft or filling thread formed by a novel combination of cotton, artificial straw and artificial silk, suitably twisted.

For the purpose of illustrating my invention I have shown in the accompanying drawings one form thereof which is at present preferred by me, since the same has been found in practice to give satisfactory and reliable results, although it is to be understood that the various instrumentalities of which my invention consists can be variously arranged and organized and that my invention is not limited to the precise arrangement and organization of the instrumentalities as herein shown and described.

In the accompanying drawings in which like reference characters represent like parts:

Figure 1 represents a somewhat diagrammatic plan view, on a greatly enlarged scale, of the fabric of my invention.

Figure 2 represents a somewhat diagrammatic plan view, on a further enlarged scale, of the composite or filling weft of my novel fabric.

To form the fabric of my novel construction I provide the loom with two sets of heddles, one set of heddles to form the shed and a set of doup heddles to carry a doup warp. The regular harness is threaded with merely two sets of warp threads 1 and 2, of a cellulose such as viscose, of a character known as artificial straw and the doup heddles are threaded with a similar viscose or artificial straw thread 3. The filling or weft thread 4 is formed of a taut strand 5 of cotton or other vegetable fibre, around which is loosely wrapped in a generally spiral manner a relatively stiff thread 6, preferably of viscose or other cellulose, and around which is also wrapped in a generally spiral formation the relatively tight binder thread 7 of artificial silk, and in a direction opposed to the direction of the thread 6. The resilient composite filler thread 4 is thereby given a bulky and generally spiral body, which when interlaced with the two sets of regular warp threads 1 and 2 and the set of doup warp threads 3, in the manner shown in Figure 1, will produce a firm fabric having the appearance and general characteristics of hand crocheted fabric.

From this fabric hats of any desired shape may be formed with or without suitable buckram or net frames. A fabric of this novel construction may be suitably sized or blocked if additional stiffness is desired.

It is to be understood that the term cellulose is used to include the various chemically produced cellulose threads, such as the regenerated cellulose threads as for instance nitro-cellulose, viscose, as well as threads resulting from the cupramonium, as well as the thiocyanate processes and also any other chemically produced threads or filament, such as the cellulose acetate filaments or the like.

The term artificial silk is used as definitive of the physical characteristics or appearance of the thread, to wit, definitive of a relatively thin filament; while the term artificial straw is likewise used to designate the physical characteristics of the thread, to wit, to designate a relatively stiff thread of relatively flat or ribbon like shape.

I am aware that the invention may be embodied in other specific forms without departing from the spirit or essential attributes thereof, and I therefore desire the present embodiment to be considered in all respects

as illustrative and not restrictive, reference being had to the appended claims rather than to the foregoing description to indicate the scope of the invention.

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

10 1. A woven fabric of the character stated, consisting of composite weft threads having a vegetable fibre core and a loose spirally wrapped cellulose body thread surrounding said core in one direction and a tight binder thread wrapped around said core and said body thread, two sets of normal warp threads of cellulose interlaced with said weft threads a third set of doup warp threads interlaced with said first two sets of warp threads and said weft threads.

20 2. A woven fabric of the character stated, consisting of composite weft threads having a core strand, a body thread of cellulose wrapped loosely around said core strand in generally spiral formation and a binder thread wrapped around said core strand as well as said body thread, thereby to bind the latter to the former, and warp threads interlaced with said weft thread.

30 3. A woven fabric of the character stated, consisting of composite weft threads having a core strand, a body thread of cellulose wrapped loosely around said core strand in generally spiral formation and a binder thread wrapped around said core strand as well as said body thread, thereby to bind the latter to the former, plain warp threads interlaced with said weft threads, and doup warp threads interlaced with said weft threads and said plain warp threads.

40 4. A woven fabric of the character stated, consisting of composite weft threads having a taut core strand, a body thread of cellulose wrapped loosely around said core strand in generally spiral formation and a binder thread wrapped around said core strand as well as said body thread, thereby to bind the latter to the former, and warp threads of artificial cellulose interlaced with said weft threads.

50 5. A woven fabric of the character stated, consisting of composite weft threads having a taut core strand, a body thread of cellulose wrapped loosely around said core strand in generally spiral formation and a relatively thin binder thread wrapped around said core strand as well as said body thread, thereby to bind the latter to the former, plain warp threads interlaced with said weft threads and doup warp threads interlaced with said weft threads and said plain warp threads; one of said warp threads being formed of cellulose.

60 6. A woven fabric of the character stated, consisting of composite weft threads having a core strand, a body thread of cellulose wrapped loosely around said core strand in

generally spiral formation and a relatively thin binder thread wrapped around said core strand as well as said body thread, thereby to bind the latter to the former, plain warp threads of cellulose interlaced with said weft threads and doup warp threads of cellulose interlaced with said weft threads and said plain warp threads.

70 7. A woven fabric of the character stated consisting of composite weft strands having a core strand, a relatively stiff body strand loosely wrapped around said core strand in generally spiral formation and a binder thread wound around said core strand and said body strand relatively tightly to bind the latter to the former at intervals and warp threads interlaced with said weft threads.

80 8. A woven fabric of the character stated, consisting of composite weft threads having a core strand, a relatively stiff body thread loosely wrapped around said core strand in generally spiral formation and a binder thread wound around said core strand and said body thread relatively tightly to bind the latter to the former at intervals, and plain warp threads interlaced with said weft threads and doup warp threads interlaced with said weft threads and said plain warp threads.

90 9. A woven fabric of the character stated, consisting of composite weft threads having a core strand, a relatively stiff body thread loosely wrapped around said taut core strand in generally spiral formation and a binder thread wound around said core strand and said body thread relatively tightly to bind the latter to the former at intervals, and plain warp threads interlaced with said weft threads and doup warp threads interlaced with said weft threads and said plain warp threads; one of said warp threads being formed of cellulose material.

100 10. A woven fabric of the character stated, consisting of composite weft threads having a taut core strand, a relatively stiff body thread loosely wrapped around said taut core strand in generally spiral formation and a binder thread wound around said core strand and said body thread relatively tightly to bind the latter to the former at intervals, plain warp threads of a cellulose material interlaced with said weft threads and doup warp threads of a cellulose material interlaced with said weft threads and said plain warp threads.

110 11. A woven fabric of the character stated, consisting of a composite weft thread having a taut core strand, an artificial straw body thread wrapped around said taut core strand in one direction in a loose spiral formation and a binder thread wrapped around said core and said body thread in an opposite direction, thereby to bind the latter to

the former at intervals, plain warp threads of cellulose interlaced with said weft threads and doup warp threads of cellulose interlaced with said weft threads and said
5 plain warp threads.

12. A woven fabric of the character stated, consisting of a composite weft thread having a taut core strand, an artificial straw body thread wrapped around said taut core
10 strand in one direction in a loose spiral formation and a binder thread wrapped around said core and said body thread in an opposite direction, thereby to bind the latter to the former at intervals, artificial straw plain
15 warp threads interlaced with said weft threads and artificial straw doup warp threads interlaced with said weft threads and said plain warp threads.

13. A woven fabric of the character
20 stated, consisting of composite weft threads having a taut core strand, a relatively flat ribbon-like body strand of cellulose wrapped loosely around said core strand and a relatively thin binder thread wound around said
25 core strand and said body strand, thereby to bind the latter to the former at intervals, and warp strands of relatively flat ribbon-like threads of cellulose interlaced with said weft threads.

30 14. A woven fabric of the character stated, consisting of composite weft threads having a taut core strand, a relatively flat ribbon-like body strand of cellulose wrapped loosely around said core strand and a

relatively thin binder thread wound around
35 said core strand and said body strand, thereby to bind the latter to the former at intervals, plain warp strands of relatively flat ribbon-like cellulose threads interlaced with said weft threads and doup warp
40 strands of relatively flat ribbon-like cellulose threads interlaced with said weft threads and with said plain warp strands.

15. A woven fabric of the character stated, consisting of composite weft threads
45 having a taut core strand, a relatively flat ribbon-like body strand of cellulose wrapped loosely around said core strand and a relatively thin binder thread wound around said core strand and said body strand, thereby
50 to bind the latter to the former at intervals, two sets of plain warp strands each formed of flat ribbon-like threads of cellulose interlaced with said weft threads and a third set of doup warp strands formed of flat ribbon-
55 like cellulose threads, interlaced with said weft threads and with said two sets of plain warp strands.

16. A textile thread of the character stated comprising a taut core strand a rela-
60 tively stiff and ribbon-like body strand of cellulose wrapped loosely around said core strand in generally spiral formation and a binder strand wrapped around said core strand and said body strand to bind the lat-
65 ter to the former at intervals.

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