This invention relates to woven fabrics wherein metal, plastic, glass, and attractive strips and wires etc. are combined with the yarn, cotton, hemp and other materials to form fabrics, especially fabrics in the form of drapes, rugs, carpets, etc. It is preferred to use bright and scintillating metal, plastics, and glass in ribbon, strip and/or wire form in one or more strands spaced with and twisted with the material which forms the main body portion of the drape, rug and/or carpet and the like and then form the woven fabric. When metals are employed as a part of the weave, tarnishproof kinds are preferred so that the scintillating effect can be produced.

It is also desired to form hooks and tufts for the exposed surfaces of the drapes, rugs and/or carpets wherein the twisted yarns with their scintillating strips and wires are worked into the cotton, flax, ramie and jute base portions thereof to various depths and loop sizes, some of the loops being cut or sheared at their exposed tops, or all the loops sheared, or all loops plain and unsheared to give the effects desired.

It is also preferred to employ a rubber or rubber-like compound on the underside or unexposed surfaces of the drapes, rugs and/or carpets for the purposes of adding strength to the entire article and making the twisted yarns etc. adhere securely to the base of the article and thus prevent the tufts and loops from becoming loose and their danger of being pulled from the base of the drape, rug and/or carpet.

One of the principal objects of this invention is to present a new and novel type, kind and class of drape, rug and/or carpet which has better wearing qualities, and which is more attractive and interesting than such articles have been in the past; the rug and/or carpet being sturdy and serviceable and economical to make and manufacture.

Another object is to provide drapes, rugs, and carpets with a scintillating effect and which are composed partly of metallic and/or plastic strips of various colors that are woven together to form rug-like surfaces with plain pile and hooked and tufted piles in combination with an elastic compound on the underside of the article for adding strength thereof and preventing the removal of the loops and hooks of the article.

Other objects, advantages and features of this invention will appear from a perusal of the accompanying drawings, the subjoined detailed description, the preamble of these specifications, and the appended claims.

Applicant is now about to describe one of the preferable forms of his invention in order to teach the art as to how they are made and how to use the same, but it is to be understood that the drawings and description thereof are not to limit the invention in any sense except as specifically limited by the appended claims.

In the drawings:

Figure 1 is a side elevational view of a length of yarn (or other suitable material for the purposes intended) showing a single strand of a bright flexible metal twisted therewith.

Figure 2 is a view like that of Figure 1, but showing double strands of scintillating material twisted with the yarn.

Figure 3 is also a similar view like that shown in Figures 1 and 2, but this is a showing wherein double spaced bands or strands of scintillating material are twisted with the yarn.

Figure 4 is a portion of a rug, shown at reduced scale, in plan view of the top exposed surface.

Figure 5 is a cross sectional view of a portion of the rug shown in Figure 4, and greatly magnified.

Figure 6 is another view of the rug of Figure 4, a cross sectional taken at another place.

Figure 7 is a side elevational view of twisted yarn showing another method of placing brightly colored or sparkling bands therein.

As illustrated in the drawings, and especially in Figure 1, a thick strand of yarn 1 is shown which is formed of a plurality of twisted medium strands of yarn 2, 3 and 4, these medium strands being formed by a plurality of small strands which are not numbered but well known to the art. Twisted with the strands, preferably the thick strands, there is a single strand, strip or band of spun glass, threaded plastic material such as any of the well known casemers, cellulose acetates and nitrates, acrylics, styrenes, resins, and various others, or metal such as strands of bright copper, brass, gold, silver, chrome, and many others. Such a strand, strip or band is indicated at 5 in Figure 1, a pair of them at 6 in Figure 2, and a spaced pair of them at 7 and 8 in Figure 3. It is preferred that strand, strip, or band be of some bright scintillating material and colored so as to give the attractive effect desired; even flexible materials coated with a radiant paint and the like may be desired in some cases, for instance, rugs and carpets in theatres and other public places where dim lighting or no lighting is provided. Also, the strips may be of spun mineral materials which exhibit iridescent qualities and would be very attractive and interesting under
various lamp rays such as the well known ultraviolet rays.

In Figure 5, the thick yarn strands are looped and weaved to a rug base material which may be any suitable fabric. The bottom portion of the rug is covered with a suitable adhesive and fixer which securely holds the yarn in place and prevents the loops from being pulled and shifted or displaced, or even removed. Such a fixer material may be a rubber compound or some form of latex, or any of the well known plastics which might include any of them heretofore mentioned. The fixer or adhesive material is indicated at 10. The loops of the rug may be sheared or cut as shown in Fig. 6 so as to present a pair of tufts 11 and 12.

In Figure 4, the top surface of a rug is shown having a wavy design which is caused by shearing certain of the loops, for instance, the unshaved loops are indicated at 11 and covers an elongated area, and the sheared loops are indicated at 12. The scintillating spots caused by the bright metal striping or wires are indicated at scattered locations as indicated at 13.

It is, of course, understood that various changes and modifications may be made in the details of form, style, design, and construction of the whole or any part of the specifically described embodiment of this invention without departing from the spirit thereof; such changes and modifications being within the scope of the following claims.

I claim:

1. In a fabric suitable for rugs, drapes etc. which presents a scintillating effect, the fabric comprising a sheet of woven material to form a strong base, a plurality of yarn twists extending through the base and which are looped on one side of the base to form a pile, each yarn twist having spiral grooves and having a strand of scintillating material in the grooves as a unitary part of the twist and which runs parallel therewith so as to provide numerous reflecting surfaces along each loop.

2. In a scintillating fabric suitable for rugs and the like, the fabric comprising a flexible sheet of woven material as a base, a plurality of yarn twists with spiral grooves extending through the base to form a pile on one side thereof, each yarn twist including a strand of scintillating material in the grooves and which is uniformly twisted with the yarn as a unitary spun part thereof so as to provide numerous curled reflecting surfaces uniformly intermixed with curled yarns.

JOSEPH BLUMFIELD.

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