UNITED STATES PATENT OFFICE

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REINFORCED WOVEN LAUNDRY NET

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3 Claims. (CL 150—1)

This invention relates to laundry nets and more particularly to laundry nets for use in commercial laundry operations.

This application is a continuation-in-part of my copending application Serial No. 623,698, filed October 22, 1945, now abandoned, which in turn is a continuation-in-part of my copending application Serial No. 592,214, filed May 5, 1945, now abandoned.

Among the objects of this invention are the provision of laundry nets which have longer life and greater resistance to wear than those previously employed; the provision of laundry nets which are resistant to tears; the provision of laundry nets in which breaks and tears do not readily spread; and, the provision of laundry nets of the type indicated which may be utilized in the customary way without the need for extra equipment. Other objects will be in part apparent and in part pointed out hereinafter.

The invention accordingly comprises the elements and combinations of elements, features of construction, and arrangements of parts which will be exemplified in the structures hereinafter described, and the scope of the application of which will be indicated in the following claims.

In the accompanying drawings, in which one of various possible embodiments of the invention is illustrated,

Fig. 1 is an elevation of a laundry net constructed in accordance with the present invention;

Fig. 2 is an enlarged view of a portion near the top of the net on a scale approximately eighty times the scale used in Fig. 1;

Fig. 3 is a section taken along the line 3—3 on Fig. 2; and

Fig. 4 is an enlarged view of a portion of the top of the net approximately forty times the size of Fig. 1.

Similar reference characters indicate corresponding parts throughout the several views of the drawings.

The laundry net 1 of the present invention consists of a body portion 2 made up of alternate warp and filler threads. These threads are made of nylon and are woven in a leno weave (see Fig. 2). The warp threads 5 are woven in pairs, but every third pair 7 consists of larger threads than the other two pairs 5. This makes the fabric resistant to tears and breaks and cuts down the spreading which normally occurs after a tear or break. The filler threads 9 likewise include thicker threads 11 at every fifth thread.

These thicker threads likewise decrease the spreading from tears or breaks.

The body portion 3 is relatively closely woven but the fabric is sufficiently porous to permit the free passage of liquids. The openings 13 in the weave are only approximately .03 of an inch by .018 of an inch in size. It has been found that a relatively close weave in this order not only provides adequate porosity for the passage of liquids to the interior of the net and out again, but there is substantially no slippage of the threads.

Around the top of the body portion 3 is a band 15 which is more closely woven. Additional warp threads 17 are woven between the leno woven warp threads 5 and 7. Attached to border 15 is a web 19 of loosely woven strands (see Fig. 4). Webbing 19 is composed of heavy strands 21, also of nylon, sewed to border 15, as shown at 23 and bound at their opposite edge by a cord 25.

Body portion 3 of the laundry net of the present invention is so tightly woven that use of the customary closure, a large safety pin, would be difficult. The loosely gathered character of web 19, however, easily and quickly accommodates such a safety pin closure, so that the laundry nets of the present invention may be quickly and easily closed merely by running the pin through webbing 19. Border 15 not only serves to strengthen the top of net 1, but provides a foundation to which webbing 19 is attached.

It has been found that the laundry nets of the present invention not only possess the characteristics of long life, inability to absorb alkalies, soaps, sours and other laundry supplies, absence of affect from bleach, rust and mildew, lack of necessity to be soaked before using, lack of affect by constant wetting and drying, and increased strength, etc., pointed out in my copending applications Serial No. 623,698 and Serial No. 592,214, but in addition wash clothes as easily and quickly as the loosely woven nets heretofore employed. The closely woven body portion 3 retains its structure without slippage of the threads, yet the openings 13 are large enough to permit free passage of liquids, enabling the contents to be washed in the usual length of time. Webbing 18 not only permits easier closure than would be possible with the customary safety pin closures in view of the close weave of body portion 3, but closing the net of the present invention is more easily accomplished than closing previous loosely woven laundry nets.

In view of the above, it will be seen that the
several objects of the invention are achieved and other advantageous results attained.

As many changes could be made in the above constructions without departing from the scope of the invention, it is intended that all matter contained in the above description or shown in the accompanying drawings shall be interpreted as illustrative and not in a limiting sense.

I claim:

1. A laundry net comprising a body portion of nylon leno woven so as to contain openings of approximately .03 of an inch by .018 of an inch, some of the threads of said weave being substantially larger than the remaining threads and arranged systematically in the weave, a more closely woven border, and attached to said border a webbing more loosely woven than said body portion and adapted to receive a pin closure.

2. A laundry net comprising a body portion of nylon leno woven so as to contain openings of approximately .03 of an inch by .018 of an inch, the warp threads of said leno woven body portion being woven in pairs, every third pair being substantially larger than the remaining pairs, more closely woven border, and a webbing more loosely woven than said body portion attached to said border and adapted to receive a pin closure.

3. A laundry net comprising a body portion of nylon leno woven so as to contain openings of approximately .03 of an inch by .018 of an inch, the warp threads of said leno woven body portion being woven in pairs, every third pair being substantially larger than the remaining pairs, every fifth filler thread of said leno woven body portion being substantially thicker than the remaining filler threads.

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REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

<table>
<thead>
<tr>
<th>Number</th>
<th>Name</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,371,548</td>
<td>Cook</td>
<td>Mar. 15, 1921</td>
</tr>
<tr>
<td>1,573,605</td>
<td>Howe</td>
<td>Feb. 9, 1926</td>
</tr>
<tr>
<td>1,941,510</td>
<td>Scruggs</td>
<td>Jan. 2, 1934</td>
</tr>
<tr>
<td>1,983,451</td>
<td>Gwaltney</td>
<td>Dec. 4, 1934</td>
</tr>
<tr>
<td>2,252,554</td>
<td>Carothers</td>
<td>Aug. 12, 1941</td>
</tr>
<tr>
<td>2,381,739</td>
<td>Gray</td>
<td>Aug. 7, 1945</td>
</tr>
<tr>
<td>2,390,423</td>
<td>Carter</td>
<td>Dec. 4, 1945</td>
</tr>
<tr>
<td>2,393,151</td>
<td>Debate</td>
<td>Jan. 15, 1946</td>
</tr>
<tr>
<td>2,416,747</td>
<td>Geimer</td>
<td>Mar. 4, 1947</td>
</tr>
</tbody>
</table>