GRASPING DEVICE FOR JUTE BAGS AND THE LIKE PIECES OF FABRIC

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The present invention relates to a device specially adapted for grasping and transferring a piece of fabric and, more particularly, bags made of jute and the like woven yarns.

The general object of the present invention relates to a device for mechanically grasping the topmost piece of jute woven fabric from a stack of pieces, in such a way that a surface of fabric will adhere to the grasping device, such that the latter can transfer the piece of fabric from the stack to any other suitable location.

A more specific object of the present invention resides in the provision of a fabric grasping device, which is more particularly adapted for use as a component of a bag placing machine for the purpose of placing jute bags onto the outlet spout of a horizontal type pressure packer machine, in a completely automatic manner without manual assistance other than the original stacking of the empty jute bags in a magazine.

Another object of the present invention resides in the provision of a grasping device of the character described, which is adapted to grasp only the top wall of the topmost bag or a stack of such bags made of fabric and to lift said topmost bag off the stack in order to allow opening up of the bag for eventual filling of the same.

Yet another object of the present invention resides in the provision of a grasping device of the character described, which can be easily adapted to grasp fabrics of different types of weave and/or yarn.

The foregoing and other important objects of the present invention will become more apparent during the following disclosure and by referring to the drawings, in which:

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As will be noted, the grasping device can open up the jute bag for subsequent easy filling of the same, and this in a completely automatic manner.

Points 12 and 15 may be provided with saw teeth or the like and their spacing and height may be varied to suit different types of yarns and weaves of the fabric pieces to be grasped.

While a preferred embodiment in accordance with the invention has been illustrated and described, it is understood that various modifications may be resorted to without departing from the spirit and scope of the appended claims.

What I claim is:

1. A fabric grasping device comprising a first element having spaced substantially flat and substantially flush fabric-contacting surface portions, a second element having spaced substantially flat fabric-contacting surface portions extending between the surface portions of said first element and substantially flush therewith, a plurality of spaced points carried by each of said elements protruding from said surface portions and distributed over substantially the entire area of said surface portions, said elements being reciprocable relative to one another in planes parallel to said surface portions so that the points of one element will intersect lines passing through the points of the other element, and means to reciprocate one element relative to the other, said points being inclined with respect to said surface portions, the points carried by said first element being oppositely inclined with respect to the points carried by said second element.

2. A fabric grasping device as claimed in claim 1, wherein said points are disposed in longitudinal rows, the rows of one element alternating with the rows of the other element.

3. A fabric grasping device as claimed in claim 2, wherein the points of each element are further aligned in several transverse rows.

4. A fabric grasping device comprising an elongated plate having a substantially flat fabric-contacting surface and provided with longitudinally extending transversely spaced grooves made therein, bars slideable in said grooves, a head element interconnecting the ends of said bars protruding from one end of said plate, power means to move said bars in said grooves relative to said plate, said plate and bars having substantially flush fabric-contacting surfaces, a plurality of spaced points protruding from said surfaces, the points of said bars intersecting lines passing through the points of said plate during movement of said bars said points being inclined with respect to said fabric-contacting surfaces, the points of said bars being oppositely inclined with respect to the points of said plate.

5. A fabric grasping device as claimed in claim 4, wherein said grooves and bars are provided with means to slidably retain said bars in said grooves.

6. A fabric grasping device as claimed in claim 4, wherein said points are those of nails fitted in bores in said plates and in said bars.

7. A fabric grasping device as claimed in claim 4, wherein said points are disposed in longitudinal rows, the rows on said bars alternating with the rows on said plate.

8. A fabric grasping device as claimed in claim 4, wherein said points are disposed in longitudinal rows, the rows on said bars alternating with the rows on said plate, the points on said bars being further transversely aligned in several courses, the points on said plates being further transversely aligned in several courses.

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