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United States Patent Office.

ANDERSON GRATZ AND BENJAMIN GRATZ, OF ST. LOUIS, MISSOURI.

PROCESS OF MAKING JUTE BAGGING.

SPECIFICATION forming part of Letters Patent No. 432,401, dated July 15, 1890.

Application filed February 18, 1890. Serial No. 340, 897. (No specimens.)

To all whom it may concern:

Be it known that we, ANDERSON GRATZ and BENJAMIN GRATZ, both of the city of St. Louis, in the State of Missouri, have invented 5 a certain new and useful Improvement in the Process of Manufacturing Bagging from Jute Butts, of which the following is a full, clear,

and exact description.

It has been customary for many years to to manufacture bagging from jute-stalks, and bagging has also been made to a limited extent from jute butts; but this article is of a very dark coarse nature and very dissimilar to bagging made of jute-stalks, in that the 15 latter is much lighter in color, and therefore much more desirable. The bagging made from butts is used almost exclusively for inclosing baled cotton, and it has to be produced and placed upon the market at a very 20 low price.

The object of our present invention is to produce a bagging from jute butts which will be far superior to the bagging heretofore made from this article, in that it is lighter in 25 color and much superior in appearance to the

old article.

It has been common for many years to treat fabrics with different chemicals, including chloride of sodium, for the purpose of render-30 ing them fire-proof. The only methods of treating such fabrics, so far as we are aware, has been by steeping or boiling the fabrics in a chloride of sodium or other chemical solution; but this method would be wholly im-35 practicable in the manufacture of bagging from jute butts, owing to the great bulk of the material to be handled and the very cheap way in which the goods must be made. The total expense of manufacturing bagging from 40 jute butts does not exceed one cent per pound, while the total labor expense should not exceed three-quarters of one cent per pound, and if the bagging were steeped or saturated with the chloride of sodium it 45 would cost at least one-quarter of one cent per pound to sufficiently dry it for storing for use, and this additional cost would add so materially to the cost of the product as to inter-

fere very much with the use of jute butts as

an article from which bagging could be prac- 50

tically made.

In practicing our invention we use chloride of sodium, and to avoid this soaking or steeping of the product we have conducted many experiments in applying the solution of chlo-55 ride of sodium in the different processes of manufacturing this coarse bagging from jute butts, and after many trials have discovered and adopted the plan of sprinkling the cloth with a solution of chloride of sodium, being 60 careful not to put on enough to rot the cloth when stored, and also being careful to put on enough to bleach the cloth by chemical action when it is rolled into tight packages and put away in a damp condition. We prefer 65 to apply the solution to the goods after weaving, and while the goods are on the calenders. By applying it at this time the chloride of sodium does not come in contact with the spinning and weaving machinery, which would 70 cause them to rust, and by applying it while the goods are on the calender and just before being rolled up a very thorough and even distribution of the chloride of sodium through the goods is obtained. As before 75 stated, the rolls are stored away as they come from the calender in a damp condition, produced by the application of the chloride of sodium, and the result is that a chemical action takes place in the tightly-rolled goods, 80 which very materially improves the color of the article and adds much to its value, but practically nothing to the cost of its production.

We are thus enabled to produce a very 85 much higher grade of bagging than it has been possible heretofore to produce from jute butts.

As an example of a suitable solution per yard of the fabric, we would state that two 90 and a half pounds of chloride of sodium dissolved in seven and a half pounds of water has been found to give good resu.

We claim as our invention—

1. The improved process of manufacturing bagging from jute butts, consisting of first weaving the fabric, then applying a solution of chloride of sodium to the fabric, and then winding the fabric into rolls while still damp,

substantially as set forth.

2. The improved process of bleaching fabric made from jute butts, consisting in apply-5 ing a solution of chloride of sodium and then storing the fabric away in mass while damp, and allowing a chemical action to take place

for the purpose of bleaching the fabric, substantially as set forth.

> ANDERSON GRATZ. BENJAMIN GRATZ.

In presence of— E. S. KNIGHT, H. C. THOM.