

UNITED STATES PATENT OFFICE.

THOMAS BRIGGS, OF MANCHESTER, COUNTY OF LANCASTER, ENGLAND.

• COMPOUND MATERIAL SUITABLE FOR THE MANUFACTURE OF LINED COFFEE AND SUGAR BAGS AND OTHER USEFUL PURPOSES.

SPECIFICATION forming part of Letters Patent No. 315,385, dated April 7, 1885.

Application filed April 17, 1884. (Specimens.) Patented in England February 16, 1884, No. 3,404; in France March 19, 1884, No. 161,053, and in the East Indies January 15, 1885.

To all whom it may concern:

Be it known that I, THOMAS BRIGGS, a subject of the Queen of Great Britain and Ireland, and residing at Manchester, in the county of Lancaster, England, have invented an Improved Compound Material Suitable for the Manufacture of Lined Coffee and Sugar Bags and other Useful Purposes, of which the following is a specification.

10 Lined coffee and sugar bags are now chiefly made of a compound material consisting of a combination of paper and a woven material made from jute or other similar fibrous substance, with a layer or coating of water-proof adhesive composition between them, the paper being turned toward the inner side of the bag.

15 In the course of time, and in consequence of rough usage, the paper lining is liable to become broken, and pieces of the paper (as well as the adhesive material and the jute fibers) become detached and mixed with the sugar, coffee, or other goods in the bag. My invention is intended to remedy this defect; and it consists, principally, in substituting a material known as "union" for the paper hitherto employed.

20 This union is formed by a loosely-woven cotton fabric filled with paper-pulp, the pulp being confined as much as possible to one side of the fabric, and in making the compound material for the manufacture of bags according to my invention the adhesive material is applied to the pulpy or paper side of the union, which is then combined by pressure with the woven jute or other fabric; or the adhesive material may be applied to the fabric.

25 By these means I produce a compound material for the manufacture of bags having an exterior of woven jute or other fabric and a clean white interior surface without any loose fibers, and which will not break, and from which no paper or other material can be detached, so as to become mixed with the sugar.

I would here observe that it will be evident that this same compound material can be employed for other purposes, such as for cart and other covers, roofing-cloth, floor-coverings, and for various other useful purposes.

I use (by preference) vegetable pitch for the purpose of fixing the union to the external woven fabric, as it is not only water-proof, but also vermin-repellent; but any other suitable adhesive substance may be employed for this purpose.

In applying my invention to the manufacture of bags from jute or other fabric woven in a tubular or seamless form, I coat the union lining with the adhesive material, and apply it to both outsides of the woven tube, forming a lap-joint at each edge, and I afterward turn the same inside outward, so that the union forms the lining of the bag. This could not be done with paper only without breaking the same.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is—

The improved compound material for the manufacture of lined coffee and sugar bags and for other useful purposes, by the combination (by means of a suitable adhesive water-proof substance or composition) of woven jute or other similar fibrous substance with the material above referred to and known as "union," substantially in the manner and for the purposes hereinbefore set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

THOMAS BRIGGS.

Witnesses:

GEORGE DAVIES,
JNO. HUGHES.