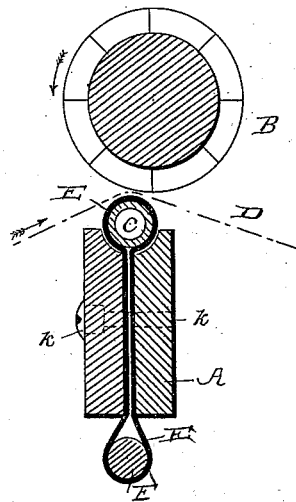


(No Model.)

E. MARTIN, T. F. DRAKE & J. W. JOHNSON.
BED FOR CLOTH SHEARING OR CROPPING MACHINES.

No. 421,865.

Patented Feb. 18, 1890.



Witnesses
Ira P. Steward
Alfred T. Gage

Inventors
Edwin Martin,
Thomas Fred Drake, and
John W. Johnson,
by H. E. Johnson, Attorney.

UNITED STATES PATENT OFFICE.

EDWIN MARTIN, THOMAS FRED DRAKE, AND JOHN WILLIAM JOHNSON, OF
LINDLEY, HUDDERSFIELD, COUNTY OF YORK, ENGLAND, ASSIGNORS TO
MARTIN SONS & CO., OF SAME PLACE.

BED FOR CLOTH SHEARING OR CROPPING MACHINES.

SPECIFICATION forming part of Letters Patent No. 421,865, dated February 18, 1890.

Application filed January 23, 1890. Serial No. 337,810. (No model.)

To all whom it may concern:

Be it known that we, EDWIN MARTIN, THOMAS FRED DRAKE, and JOHN WILLIAM JOHNSON, subjects of the Queen of Great Britain, residing at Lindley, Huddersfield, in the county of York, England, have invented certain new and useful Improvements in Beds for Cloth Shearing or Cropping Machines; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The invention has reference to improvements in machines for shearing or cropping cloth, and particularly to such machines in which an elastic or yielding bearing-surface is secured to the top of the bed below the cutter; and it has for its object to secure that bearing-surface to its bed by improved means which will give more satisfactory results than obtained from the means heretofore employed to hold the bearing to its seat.

To the accomplishment of such ends, the invention consists in the construction and in the combination of parts hereinafter particularly described and afterward claimed, reference being had to the accompanying drawing, forming part hereof, and in which is represented a vertical cross-section through a rotary helical cutter and suitable bed, showing the manner of securing the bearing-surface or tube to its place.

In the drawing, the letter A designates a suitable bed, formed in any suitable manner so as to have a vertical way through it—for instance, by making it in two parts or sections secured together by bolts, as indicated by dotted lines *b*, with a space between the sections and bolts. Through this space passes a strip or piece of suitable material—say of glazed calico or fabric E—which passes around the elastic tube C, lying upon the apex of the bed, and which at a suitable point on its length is weighted—say at its lower end—by a rod F or otherwise. This weight holds the elastic bearing to its seat, and may be

said to render the bearing more yielding than when formed as heretofore. This strip of material is preferably made in the form of an endless apron, with the elastic roll or tube at the fold in its upper end and the weight F within the fold at its lower end, so that whenever necessary or desirable the surface of the fabric which lies across the top of the roll or tube may be shifted by simply slipping the apron up and down, and thus bring a new surface on top when one surface becomes worn to such an extent as to make it desirable to change the surface.

Another advantage that may be assigned to this construction is that the tube or roll may also turn or move on its seat without leaving it, and thus to that extent the bearing may still further yield to the pressure of the knots or protuberances in the cloth being sheared.

The bed is shown as formed with a grooved or recessed seat for the roll or tube to rest in, as such is considered to give the best results.

Having described our invention and set forth its merits, what we claim is—

1. The combination, with a suitable bed, of an elastic or yielding bearing to form a yielding support for a traveling fabric and a weight and means connecting it with the elastic bearing to hold the bearing to its seat, substantially as and for the purposes described.

2. The combination, with a suitable bed, of an elastic or yielding bearing to form a support for a traveling fabric, a weight, and an endless strip or apron connecting the elastic bearing and weight, substantially as and for the purposes described.

In testimony whereof we affix our signatures in presence of two witnesses.

EDWIN MARTIN.
THOMAS FRED DRAKE.
JOHN WILLIAM JOHNSON.

Witnesses:

DAVID J. BAILEY,
THOMAS S. SIMPSON,
Solicitors, Huddersfield, England.