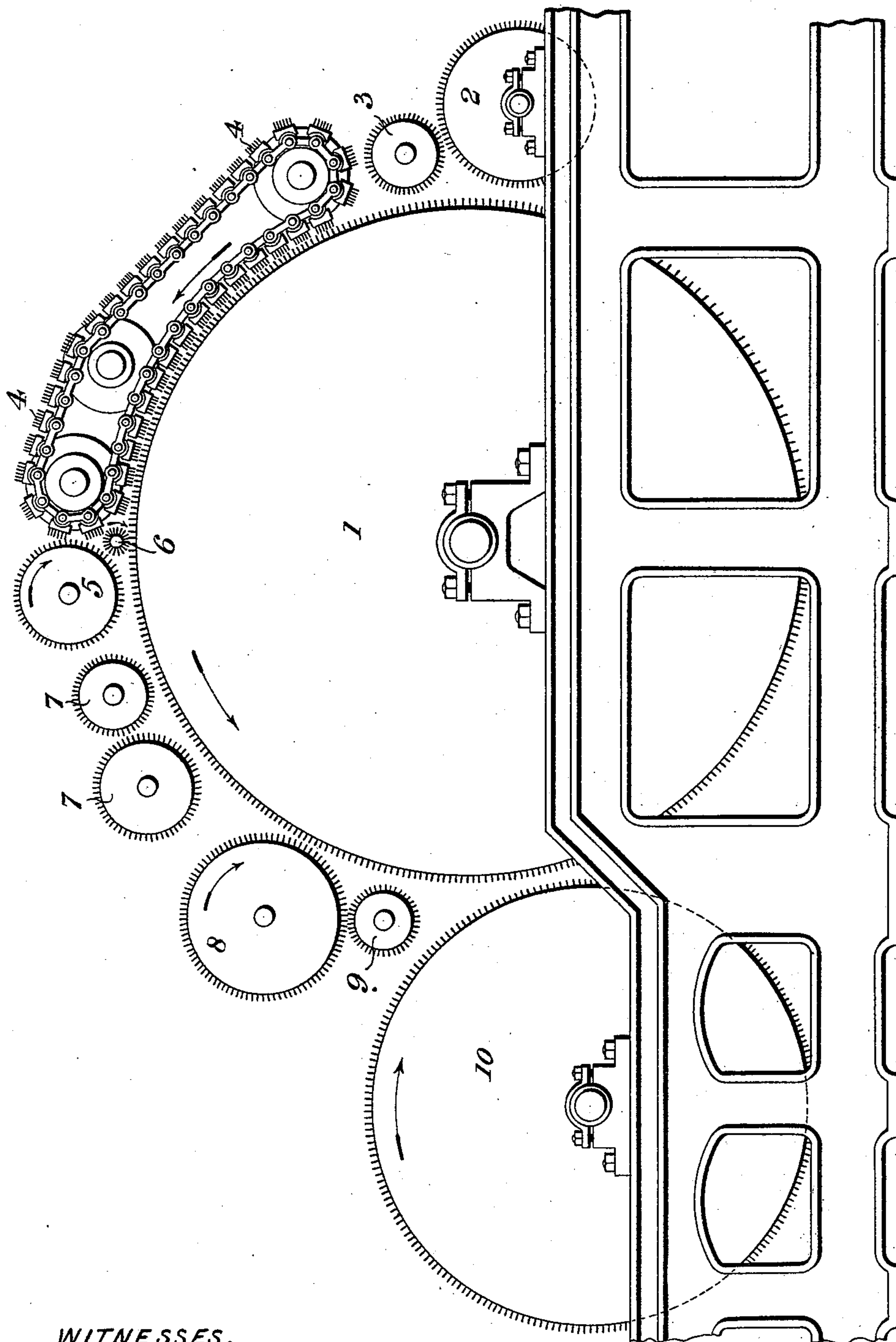


(No Model.)

S. LEBE & J. HALEY.
CARDING ENGINE.

No. 539,691.

Patented May 21, 1895.



WITNESSES.

Walter Brierley
J. Brierley Howard

INVENTORS.

S. Lebe
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UNITED STATES PATENT OFFICE.

SERVAIS LEBE AND JONAS HALEY, OF CLECKHEATON, ENGLAND.

CARDING-ENGINE.

SPECIFICATION forming part of Letters Patent No. 539,691, dated May 21, 1895.

Application filed September 17, 1894. Serial No. 523,254. (No model.)

To all whom it may concern:

Be it known that we, SERVAIS LEBE and JONAS HALEY, subjects of Her Majesty the Queen of Great Britain, residing at Cleckheaton, in the county of York, England, have invented a certain new and useful Improvement in Carding-Engines, of which the following is a specification.

Our invention relates to improvements in scribblers or carding engines employed in carding wool and other fibers, the object being to obtain a greater working surface on each cylinder whereby a greater amount of work is done, and a better and stronger yarn produced with less work than heretofore, and this is achieved by a combination of a chain of card covered flats or an endless sheet of cards with the main cylinder and a series of regulating card covered rollers, strippers, clearers, and taking in roller.

Our invention is illustrated in the accompanying drawing, which is a side elevation of a part of a carding-engine or scribbler having our improvement applied thereto.

According to this invention we employ in connection with each main cylinder 1 a taking in roller 2 and clearer 3 and a chain of card covered flats 4 or an endless sheet of cards driven by any of the ordinary and well known means and covering a portion of the main cylinder.

After the chain of flats 4 or endless sheet or belt we employ a stripper 5 to remove the fiber from the flats or sheet 4 and a small roller or receiver 6 the teeth of which take the fiber from the stripper 5 and lay such fiber on the cylinder 1.

One, two or more card covered regulating

rollers 7, 7, are employed after the stripper 5 such regulating rollers 7 being for the purpose of laying the fiber evenly on the cylinder 1. After these come the ordinary fancy roller 8, stripper 9 and doffer 10.

The arrangement may be applied to one cylinder or to a series of cylinders forming a scribbler.

For scribbling the use of the regulating rollers 7 is not indispensable but we prefer to use such as regularity in the quantity of the fiber is advantageous though the nicety required in the carding engine is not necessary in the scribbler.

By the use of the improvements as herein set forth, a greater working surface is obtained on each cylinder and fewer rollers are employed.

What we claim is—

In combination, a main cylinder 1, an endless sheet or belt of cards 4, covering a portion of same, a stripper 5, for removing the fiber from the sheet or belt 4, a receiving roller 6, for taking the fiber from the stripper and laying it on the cylinder, the card covered regulating rollers 7, for insuring regularity in the fiber laid on the cylinder and means for removing the fiber from the cylinder, substantially as described.

In testimony whereof we have hereunto set our hands in the presence of two subscribing witnesses.

SERVAIS LEBE.
JONAS HALEY.

Witnesses:

WALTER BRIERLEY,
J. BRIERLEY HOWARD.