C. H. MATTICE.

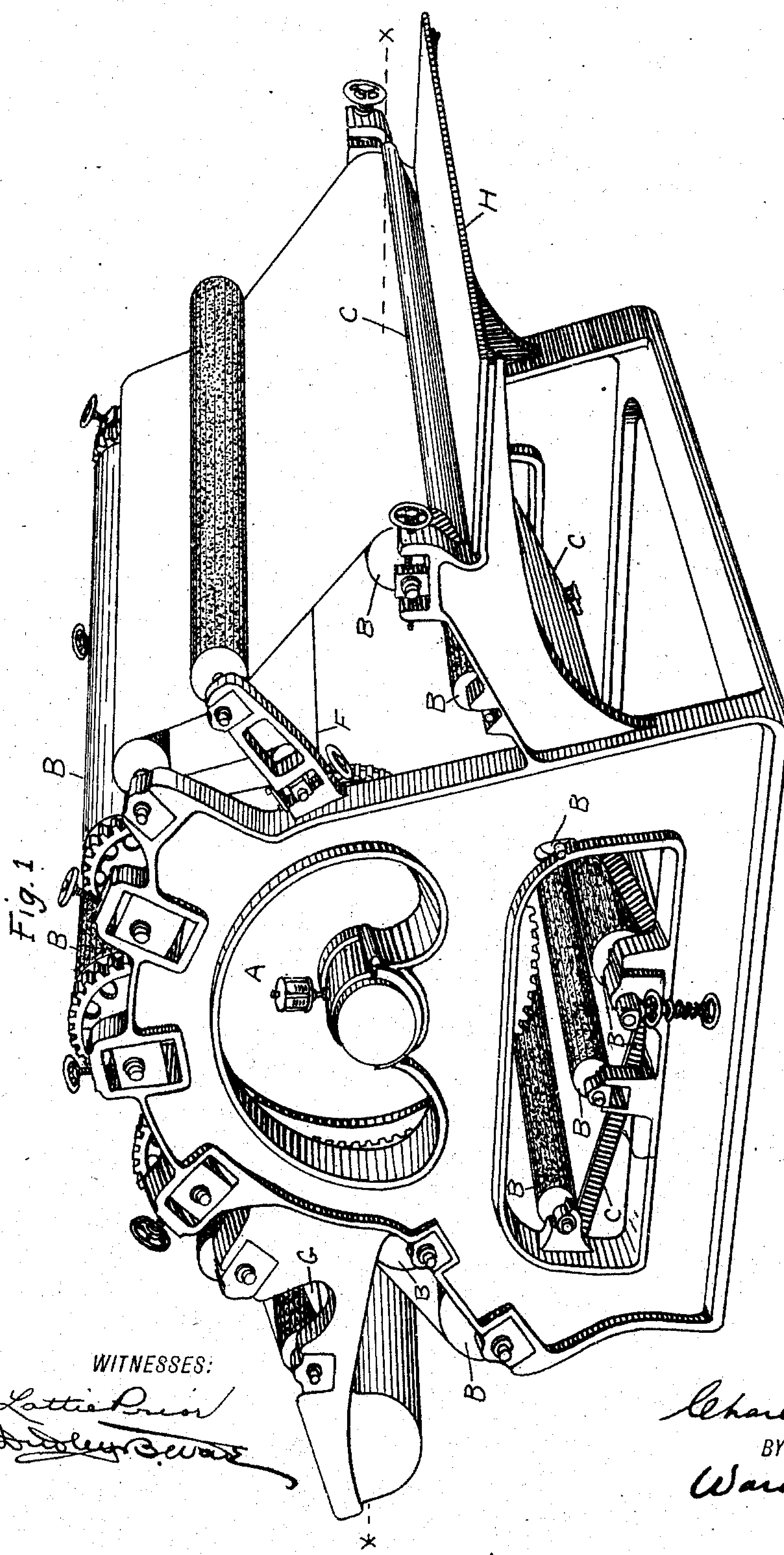
MANGLE.

APPLICATION FILED JAN. 12, 1907.

928,315.

Patented July 20, 1909.

3 SHEETS—SHEET 1.



WITNESSES:

Lottie Prior

Dudley B. Wolz

INVENTOR

Charles H. Mattice

BY

Ward & Cameron

ATTORNEYS

ANDREW. B. GRAHAM CO., PHOTO-LITHOGRAPHERS. WASHINGTON, D. C.

C. H. MATTICE.

MANGLE.

APPLICATION FILED JAN. 12, 1907.

928,315.

Patented July 20, 1909.

3 SHEETS—SHEET 2.

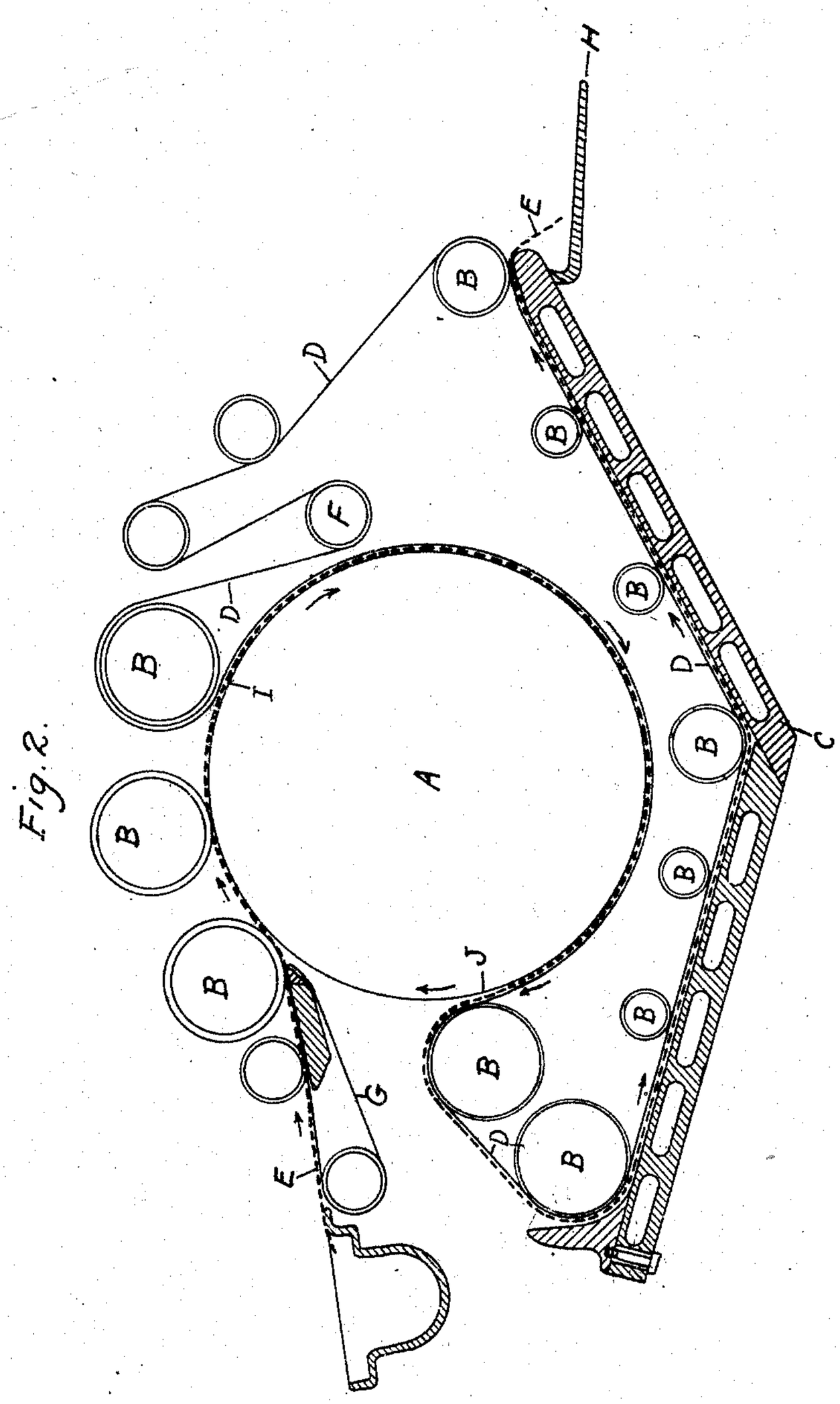


Fig. 2.

WITNESSES:

Lottie Prior

Dudley O. Ward

INVENTOR

Charles H. Mattice

BY

Ward & Cameron

ATTORNEYS

ANDREW. B. GRAHAM CO., PHOTO-LITHOGRAPHERS, WASHINGTON, D. C.

C. H. MATTICE.

MANGLE.

APPLICATION FILED JAN. 12, 1907.

928,315.

Patented July 20, 1909.

3 SHEETS—SHEET 3.

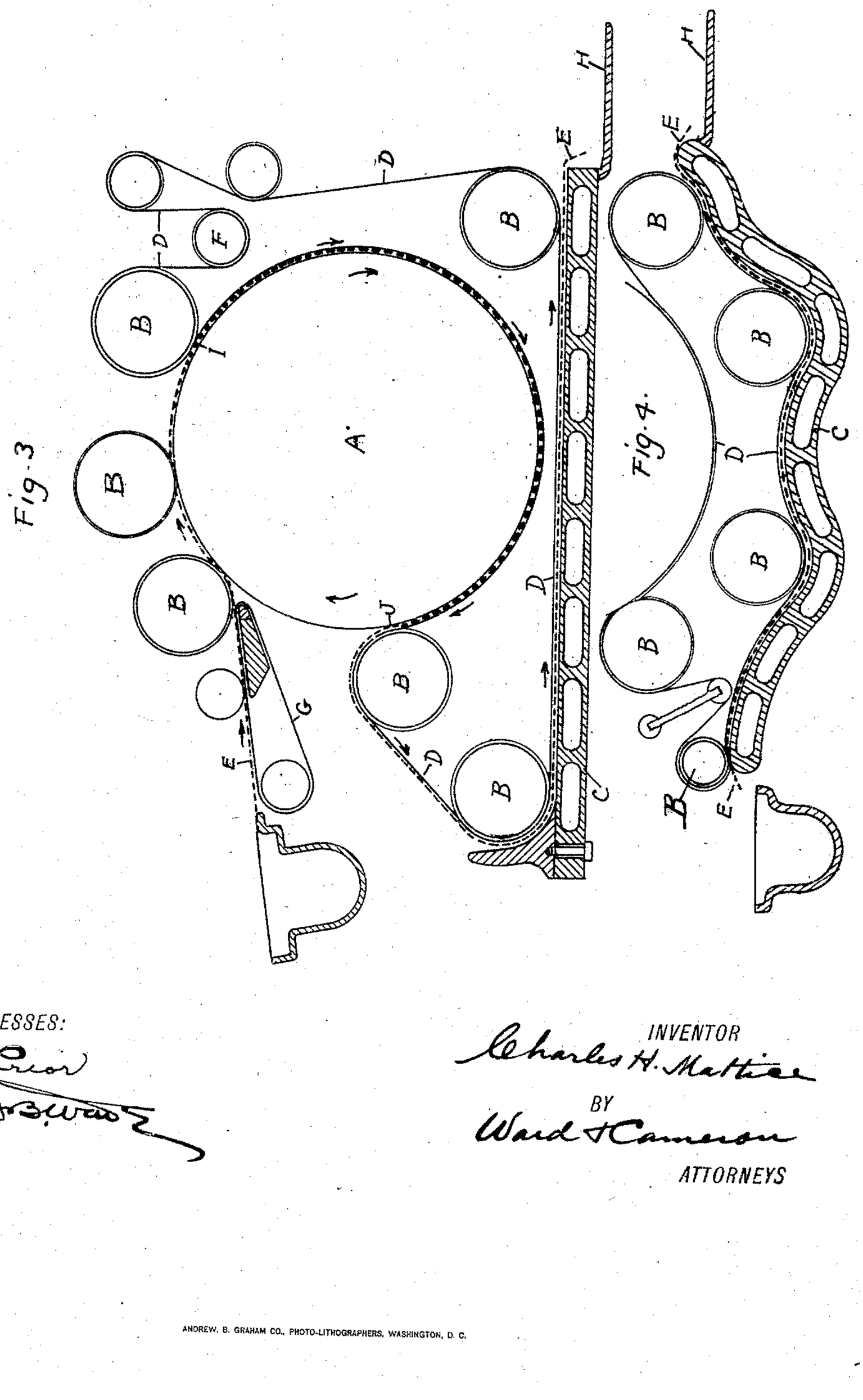


Fig. 3

Fig. 4.

WITNESSES:

Lottie Prior

Sidney B. Wood

INVENTOR

Charles H. Mattice

BY

Ward & Cameron

ATTORNEYS

ANDREW. B. GRAHAM CO., PHOTO-LITHOGRAPHERS, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

CHARLES H. MATTICE, OF GREEN ISLAND, NEW YORK, ASSIGNOR TO ADAMS LAUNDRY MACHINERY COMPANY, OF TROY, NEW YORK, A CORPORATION.

MANGLE.

No. 928,315. Specification of Letters Patent. Patented July 20, 1909.

Application filed January 12, 1907. Serial No. 351,942.

To all whom it may concern:

Be it known that I, CHARLES H. MATTICE, a citizen of the United States, residing at Green Island, in the county of Albany and State of New York, have invented certain new and useful Improvements in Mangles, of which the following is a specification.

My invention relates to improvements in ironing machines, usually known as mangles, and the object of my invention is to construct a mangle which will be simple in its parts and easily operated, and by which the goods will be conveyed by a single endless apron around the lower portion of the heated cylinder, and over the upper surface of a heated table. I attain this object by means of the mechanism illustrated in the accompanying drawings, in which:

Figure 1 is a perspective view of one end and side of my mangle. Fig. 2 is a cross section, at X—X, on Fig. 1. Figs. 3 and 4 show modified forms of the heated table.

Similar letters refer to similar parts throughout the several views.

A is a heated cylinder, extending the length of the machine, constructed and arranged as is usual in mangles.

B, B, are padded rollers constructed and arranged in the usual form as is common in mangles.

C is a metallic bed plate under the cylinder, A, and arranged to be heated. The bed plate, C, may be made of two sides forming an angle, as shown in Fig. 2, or may be straight or curved, as shown in Figs. 3 and 4. The bed plate, C, is heated in any suitable way, as by making it hollow and having the interior form a steam chest. The bed plate, C, extends the entire length of the cylinder, A, and its upper surface is polished, so that the goods being ironed will readily be carried over this surface by the endless apron.

D is an endless apron passing around the lower surface of the cylinder A, and held by the rollers against the lower surface of the cylinder A and the upper surface of the heated bed plate C. The dotted line, E, represents the goods passing through the mangle, being ironed.

F is an adjustable roller used for holding the endless apron, D, at the proper tension.

G is a feeding belt, for feeding the goods into the machine, and H is a receiving table, upon which the goods are discharged after passing through the mangle.

The power is applied to the heated cylinder, A, which is provided with gears which mesh with the gears on some of the padded rollers, B, in the usual way. It is not usual or necessary to have all the padded rollers driven by gears. But at least one of the padded rollers, B, over or around which the endless apron passes is thus driven by gears and this roller will drive or operate the endless apron and keep it in motion, and the endless apron will turn the loose padded rollers which it comes in contact with.

The operation of my mangle is as follows: The goods are fed between the first padded roller, B, and the cylinder, A, by the endless feeding belt, G, or by any suitable means, and passing over the cylinder, A, and under the padded rollers, B, until they reach the endless apron, D, at the point, I, that being the highest point on the opposite side of the machine where the endless belt passing over the roller, B, comes in contact with the cylinder A. The goods being ironed are then carried around the cylinder, A, by the endless apron, D, which is operated by the padded driving rollers, B, in the usual way and carried around and under the cylinder, A, until they reach the point, J, where the endless apron, D, leaves the cylinder, A, and passing around the padded rollers, B, B, which are located on the same side and beneath the feeding belt, G, the goods are thus carried by the endless apron around those rollers and over the upper surface of the heated bed plate, C, and discharged on the opposite side of the machine upon the receiving table H.

Constructed in this way my mangle is simple of operation economical in construction, and the goods being ironed come in contact with the greatest amount of heating and smoothing surface and are delivered on the receiving table thoroughly ironed and dried.

What I claim as my invention and desire to secure by Letters Patent is:

1. A mangle comprising a frame; a heated cylinder mounted in said frame; a series of padded rollers mounted around said cylinder in said frame; a heated bed plate mounted in said frame under said heated cylinder; an endless apron passing over one of said padded rollers near the top of said cylinder and on one side thereof, and over another padded roller near the bottom of said cylinder on the other side thereof and around other padded

rollers adjoining the upper surface of the heated bed plate, whereby the goods being ironed will be carried by said endless apron under said heated cylinder and in contact therewith and over the heated bed plate in contact with the upper surface thereof under said endless apron, substantially as described.

2. In a mangle, the combination of a heated cylinder; a heated bed plate located under said cylinder; padded rollers above said cylinder; also rollers under said cylinder and near the upper surface of said heated bed plate; an endless apron passing around a portion of said rollers and in contact with the under surface of said cylinder and the upper surface of said heated bed plate; means for operating said endless apron whereby the goods being ironed will be carried by said endless apron along the under surface of said heated cylinder and the upper surface of said heated bed plate and discharged at the rear of the mangle, substantially as described.

3. A mangle comprising a frame; a heated cylinder mounted in said frame; a heated bed plate mounted in said frame; a series of padded rollers mounted in said frame around said heated cylinder; rollers mounted in said frame opposite said cylinder near the upper surface of said heated bed plate; an endless apron passing over one of said rollers on one side of said cylinder and two of said rollers on the opposite side of said cylinder and other rollers near the upper surface of said heated bed plate, whereby said endless apron will be held in contact with the under surface of said heated cylinder and the upper surface of said heated bed plate; an adjustable roller also mounted in said frame in contact with said endless apron whereby the tension of said endless apron may be regulated; means for feeding the goods between said padded rollers and said cylinder in front of said mangle; means for operating said endless apron; and a receiving table at the end of said heated bed plate at the rear of said mangle, whereby goods being ironed may be fed between the padded rollers and the heated cylinder at the front of the machine, carried to the point of contact of said endless apron with said heated cylinder and by said endless apron around the under surface of said heated cylinder and over the upper surface of said heated bed plate and discharged at the rear of said mangle upon said receiving table, substantially as described, for the purposes set forth.

In testimony whereof I have affixed my signature in presence of two witnesses.

CHARLES H. MATTICE.

Witnesses:

ALONZO SHARP,

WALTER E. WARD.