

No. 736,469.

PATENTED AUG. 18, 1903.

F. R. WOMELDORF.

FLY FAN.

APPLICATION FILED FEB. 25, 1903.

NO MODEL.

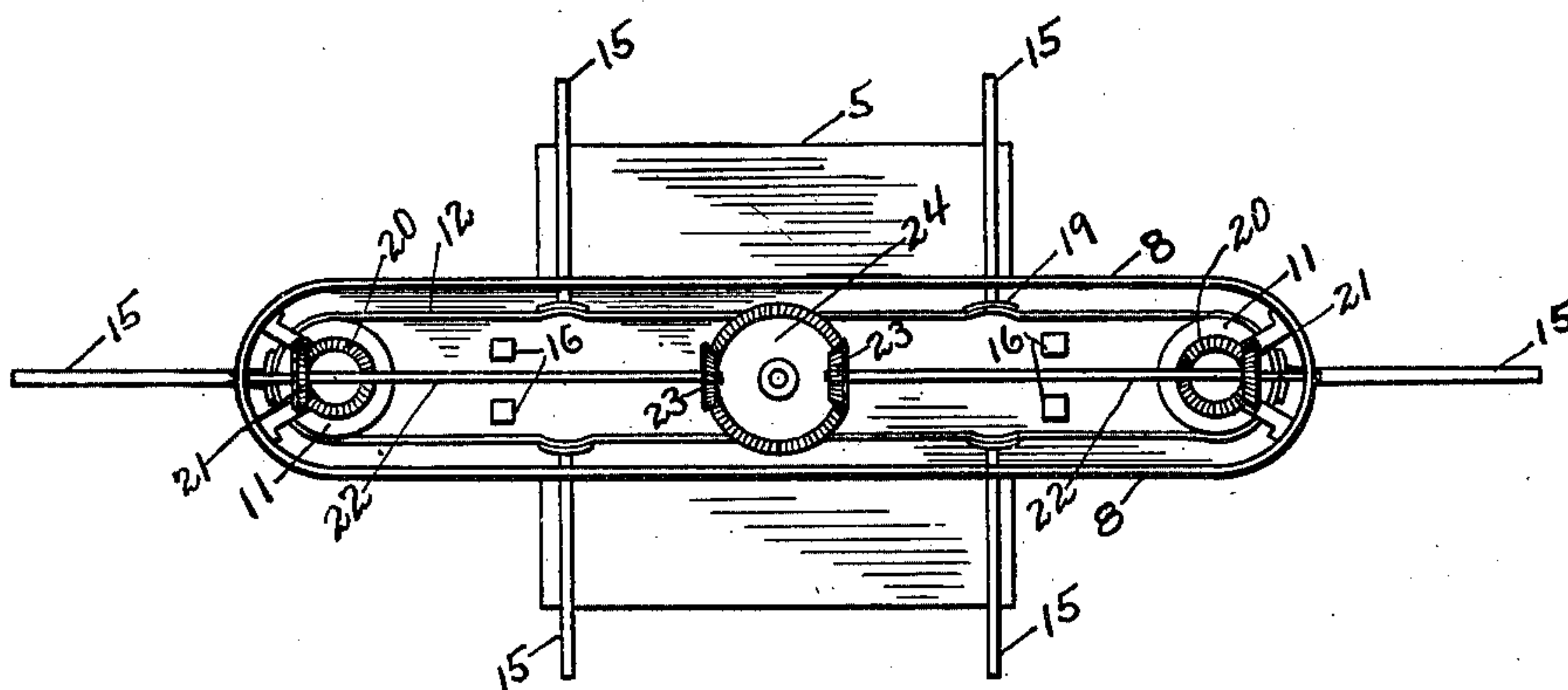


Fig. 2.

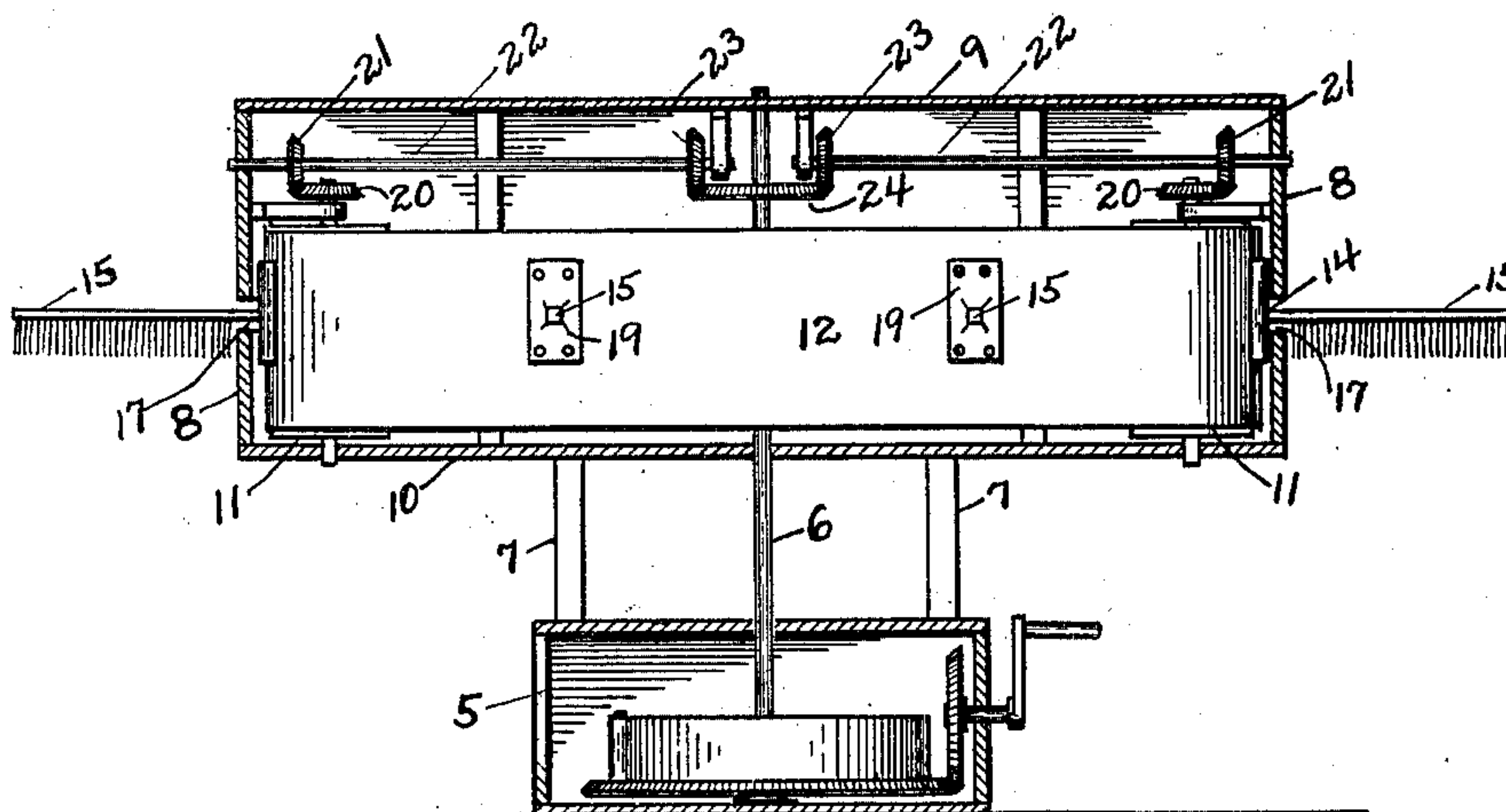


Fig. 1.

Witnesses
Charles Morgan.
Harry E. Chandler

Inventor
Frederick R. Womeldorf
Lawler & Chandler
Attorneys

UNITED STATES PATENT OFFICE.

FREDRICK R. WOMELDORF, OF CARROLL, PENNSYLVANIA.

FLY-FAN.

SPECIFICATION forming part of Letters Patent No. 736,469, dated August 18, 1903.

Application filed February 25, 1903. Serial No. 144,946. (No model.)

To all whom it may concern:

Be it known that I, FREDRICK R. WOMELDORF, a citizen of the United States, residing at Carroll, in the county of Clinton, State of Pennsylvania, have invented certain new and useful Improvements in Fly-Fans; and I 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.

This invention relates to fly-fans; and it has for its object to provide a simple and efficient construction, including a base containing a motor and a casing supported from the base and having an endless belt mounted therein which is driven from the motor and which belt is provided with fan-blades which move bodily with the belt around the casing.

A further object of the invention is to provide a construction wherein a single fan may be formed which will drive the flies from all parts of an elongated table.

In the drawings forming a portion of this specification, and in which like numerals of reference indicate similar parts in both the views, Figure 1 is a longitudinal section taken vertically through the casings of the fan and showing parts in elevation. Fig. 2 is a longitudinal section taken horizontally through the casing and showing a driving mechanism for the endless belt.

Referring now to the drawings, the present fan comprises a hollow base 5, containing a usual or common form of spring-motor, including a driving-shaft 6, which extends vertically from the base. Supported from the base 5 upon posts 7 is a casing which includes sides 8, a top 9, and a bottom 10, the ends of this casing being rounded and having vertical rollers or drums 11 mounted therein. Upon the drums or rollers is disposed an endless belt 12, and attached to this belt at their inner ends are the stems 14 of fan-blades 15, the inner ends of these stems being broadened vertically, so that they will be held with greater security to the endless belt. The top and bottom of the casing are held in proper spaced relation by posts 16, and in the side of the casing, midway between the bottom and top thereof and extending horizontally, is formed a continuous slot 17, through which the stems of the fan-blades project and longitudinally

of which they travel in their movement with the endless belt. To hold the blades or the stems of the blades with proper rigidity to the belt at points between the rollers, the cross-pieces 19, formed by broadening the stems vertically, are arc-shaped in cross-section to correspond to the curvatures of the end rollers, and the vertical or side edge portions of these cross-pieces are riveted or otherwise attached to the belt, there being an amount of slack in the belt between the rivets of each cross-piece to permit the cross-piece to fit around the roller in its movement. The end rollers are provided with beveled gears 20, with which are engaged the gears 21 at the ends of horizontal shafts 22, rotatably mounted in the casing, and which shafts at their inner ends are provided with bevel-gears 23, which engage a corresponding gear 24 at the upper end of the drive-shaft of the spring-motor. With this construction it will be seen that as the motor is operated the fan-blades are carried in an elliptical orbit about the casing.

It will be understood that in practice modifications of the specific construction shown may be made and that any suitable materials and proportions may be used for the various parts without departing from the spirit of the invention.

It will be understood that the fan-blades may be provided with fringe, as illustrated, to frighten the flies or that such fringe may be omitted.

What is claimed is—

1. A fly-fan comprising a casing having slotted sides, an endless belt rotatably mounted in the casing, fan-blades radiating from the casing and having stems passed inwardly through the slot and connected to the belt, and means for moving the belt.

2. A fly-fan comprising a casing having rollers journaled therein and having a continuous horizontal slot in its side, an endless belt mounted upon the rollers, fan-blades radiating from the casing and having stems passed inwardly through the slot and connected to the belt, a base upon which the casing is supported, a motor in the base having a drive-shaft extending into the casing and connections between the drive-shaft and the rollers for rotating the latter.

3. A fly-fan comprising an elongated casing
having rollers at its ends and having a con-
tinuous horizontal slot in its side, an endless
belt mounted upon the rollers, fan-blades
5 radiating from the casing and having stems
passed inwardly through the slot, the inner
ends of the stems being broadened vertically
and attached to the belt, a drive-shaft extend-
ing into the casing, and connections between

the drive-shaft and the drum for rotating the 10
latter.

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

FRED. R. WOMELDORF.

Witnesses:

S. M. HERLACHER,
H. K. ECKEL.