C. A. KUNTZENDORF.

DISPLAY RACK FOR TRUNKS.

APPLICATION FILED MAR. 10, 1910.

986,725. Patented Mar. 14, 1911.

3 SHEETS—SHEET 1.

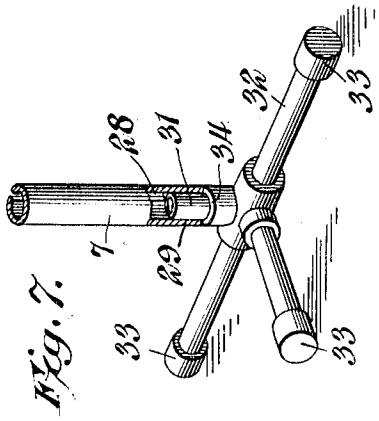

Fig. 7.

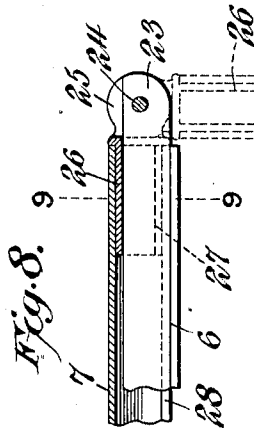

Fig. 8.

Fig. 9.

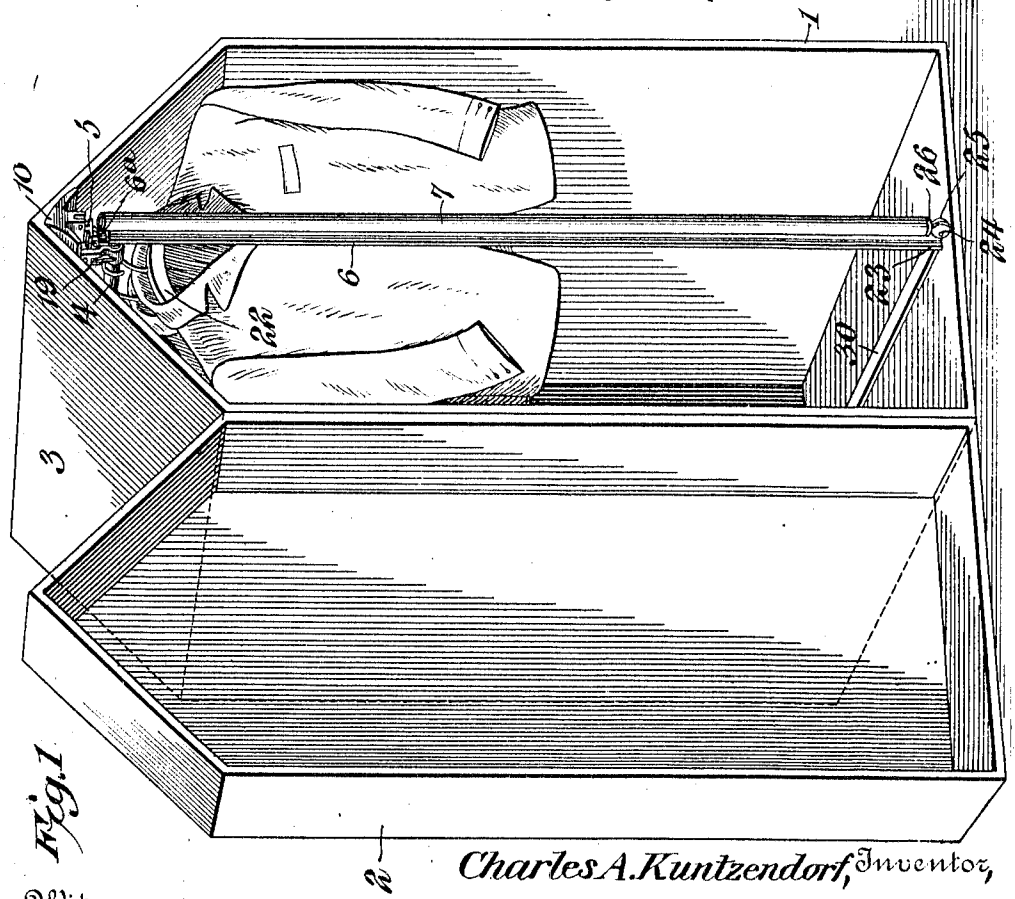

Fig. 1

Witnesses

Howard D. Orr.

J. F. Riley

Charles A. Kuntzendorf, Inventor,

By E. G. Siggers.

Attorney

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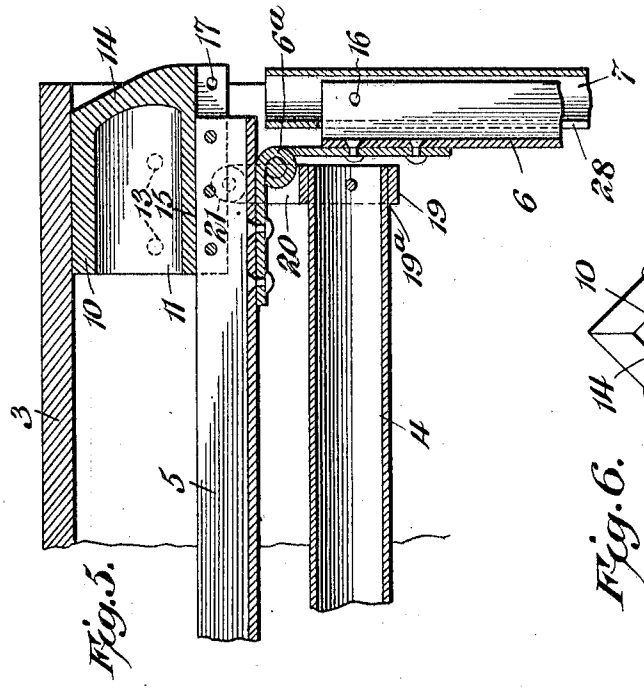

Fig. 5.

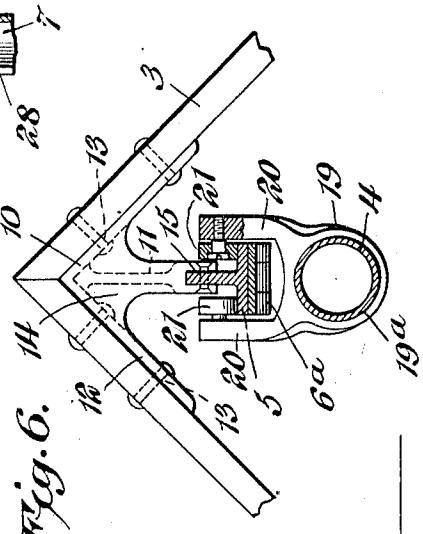

Fig. 6.

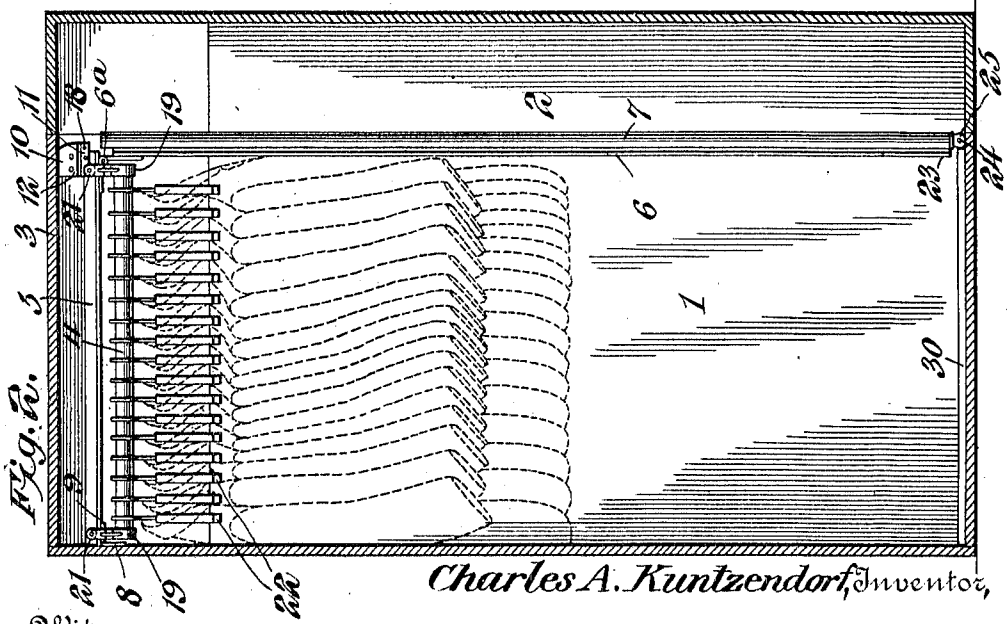

Fig. 7.

Witnesses

Howard D. Orr.

H. C. Riley

Charles A. Kuntzendorf, Inventor,

By C. G. Siggers,

Attorney

C. A. KUNTZENDORF.

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3 SHEETS—SHEET 3.

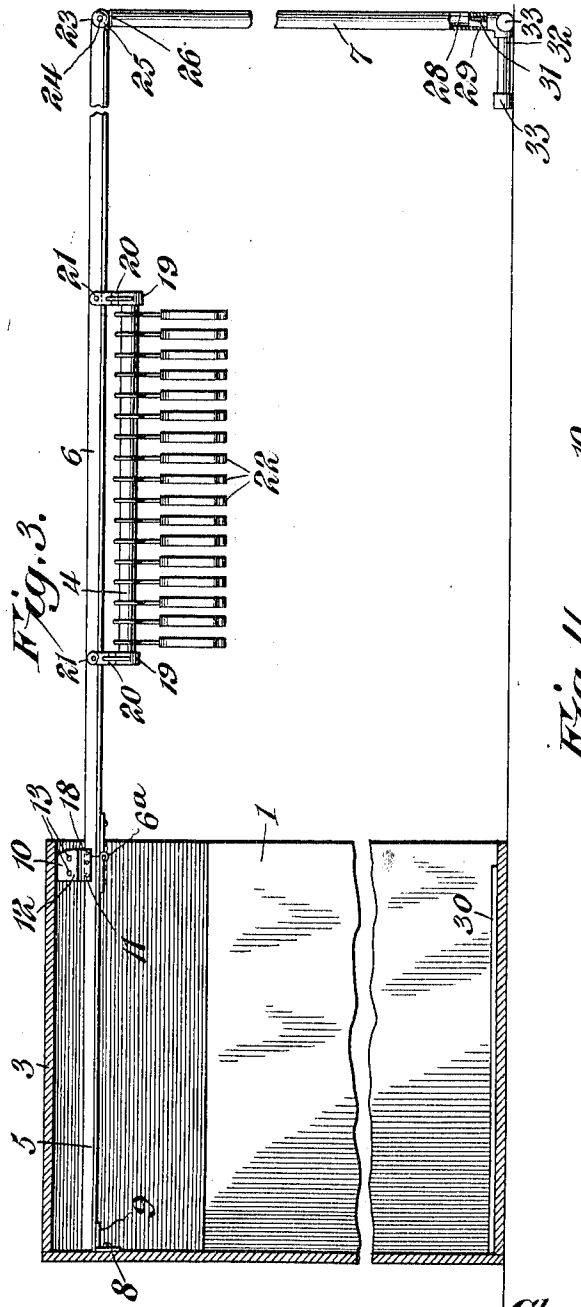

Fig. 3.

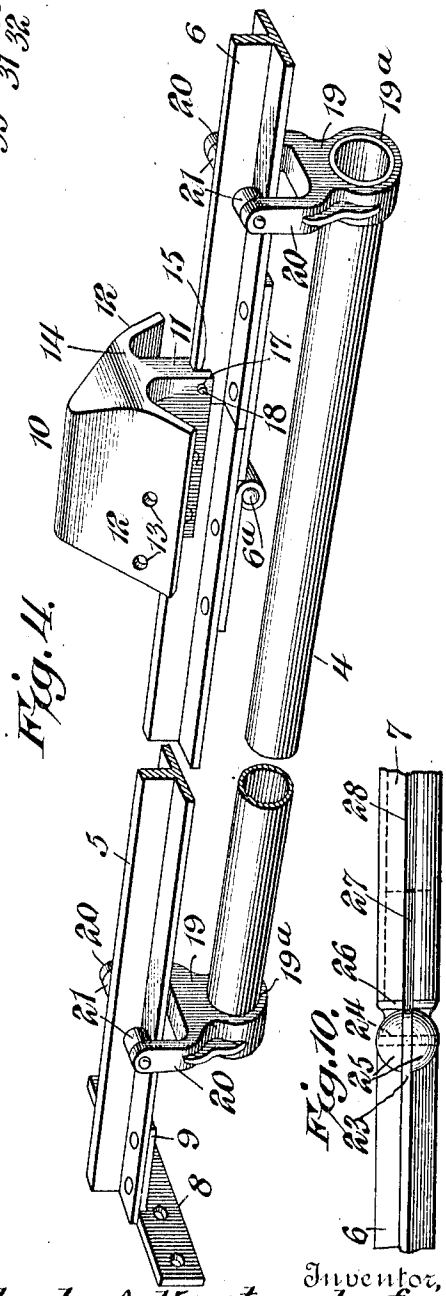

Fig. 4.

Fig. 10.

Witnesses

Howard D. Orr.

H. J. Riley

Inventor,

Charles A. Kuntzendorf,

By E. G. Siggers.

Attorney

UNITED STATES PATENT OFFICE.

CHARLES A. KUNTZENDORF, OF CHICAGO, ILLINOIS.

DISPLAY-RACK FOR TRUNKS.

986,725. Specification of Letters Patent. Patented Mar. 14, 1911.

Application filed March 10, 1910. Serial No. 548,416.

To all whom it may concern:

Be it known that I, CHARLES A. KUNTZENDORF, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Display-Rack for Trunks, of which the following is a specification.

The invention relates to a display rack for trunks.

The object of the present invention is to improve the construction of display racks for trunks, and to provide a simple, efficient and comparatively inexpensive display rack of this character, designed particularly for the use of traveling salesmen for the display of models or sample garments, and capable of enabling a comparatively large number of the same to be compactly suspended within a trunk and of enabling the garments to be readily withdrawn therefrom in their suspended relation, so as to afford free access to the same.

With these and other objects in view, the invention consists in the construction and novel combination of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended; it being understood that various changes in the form, proportion, size and minor details of construction, within the scope of the claims, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings:—Figure 1 is a perspective view of a trunk provided with a display rack, constructed in accordance with this invention, the parts being folded. Fig. 2 is a vertical sectional view of the same, the trunk being closed. Fig. 3 is a similar view, the trunk being open and the track being extended and arranged for use. Fig. 4 is an enlarged detail perspective view of a portion of the track and the hanger-receiving carriage. Fig. 5 is an enlarged detail longitudinal sectional view of a portion of the track, illustrating the manner of mounting the outer end of the fixed section. Fig. 6 is a transverse sectional view of the track and the carriage, the outer bracket and a portion of the trunk being shown in elevation. Fig. 7 is a detail perspective view, partly in section illustrating the construction of the foot of the standard. Fig. 8 is a detail view, illustrating the construction of the hinge connection between the standard and the outer end of the foldable extension rail of the track. Fig. 9 is a detail sectional view on the line 9—9 of Fig. 8. Fig. 10 is an enlarged plan view of the hinge joint for connecting the outer end of the foldable section of the track to the upper end of the standard.

Like numerals of reference designate corresponding parts in all figures of the drawings.

In the embodiment of the invention illustrated in the accompanying drawings, 1 designates the body portion of a trunk open at the front, provided with a hinged section or closure 2 and having a rigid oppositely tapered top 3. In the instance illustrated, the trunk body or compartment is shown equipped with a gabled upper end or top wall, but as this does not constitute a feature of the invention, the shape of the top wall may be changed without departing from the invention. The height of the trunk is greater than its width, or the distance between the front and back to insure its being placed in an upright position, and the oppositely tapered gabled upper end wall or top effectually prevents the trunk from being placed in an inverted position in transit. The trunk is equipped with a display rack comprising a slidable hanger-receiving carriage 4 and an extensible track composed of a fixed rail 5 located within the gabled upper end wall and arranged beneath the ridge of the same and an extensible rail 6, hinged at one end to the fixed rail and supported at the other end by a standard 7. The extensible rail 6 is of a length to extend to substantially the bottom of the trunk or compartment, and the standard 7 is approximately the length of the extensible rail 6.

The rails 5 and 6 of the track are inverted T-shape in cross section, and the fixed rail 5, which is arranged horizontally beneath the top or ridge of the trunk, is supported at its inner end by a bracket 8, consisting of a vertical attaching plate and a horizontal supporting flange 9. The attaching plate is perforated for the reception of screws, or other suitable fastening devices for securing the bracket to the back of the body of the trunk, and the laterally extending bottom flanges of the fixed section of the rail are riveted, or otherwise secured to the flange 9.

The outer end of the fixed rail 5 is supported by a bracket 10, consisting of a central web 11 and inclined sides or wings 12,

extending downwardly from the top of the central web and formed integral with the same and provided with perforations 13 for the reception of screws, or other suitable fastening means for securing the outer bracket 10 to the top of the body portion of the trunk. The inclined sides or wings 12 form a tapering bracket to fit the angle of the top of the trunk at the ridge thereof, and the said sides or wings are preferably braced at the front or outer end of the bracket by an integral connecting portion 14, forming a front wall at the upper portion of the bracket and preferably inclined, as clearly shown in Figs. 4 and 5. The central web is provided in its lower edge with a longitudinal groove 15 to receive the central vertical flange or web of the fixed rail 5, and the bracket projects slightly beyond the outer end of the rail 5 and is adapted to receive the inner end of the central web or flange of the rail 6, which is connected with the outer end of the fixed rail by a suitable hinge 6ª. The hinge 6ª, which may be of any desired construction, has its leaves or members riveted or otherwise secured to the lower faces of the bottom flanges of the rails 5 and 6. The web or flange of the hinged rail 6 and the central web of the outer bracket are provided with registering perforations 16 and 17, adapted to receive a pin or key 18 for securing the section 6 in its extended position.

The hanger-receiving carriage 4 is composed of a horizontal tubular bar or member and end hangers 19, having lower circular openings 19ª to receive the ends of the tubular bar and provided with spaced upwardly extending arms 20, carrying oppositely disposed inwardly projecting anti-friction rollers 21, arranged to run upon the horizontal flanges of the track at opposite sides of the central web or flange of the rails, as clearly shown in Fig. 4 of the drawings. The carriage 4 is of sufficient length to receive a comparatively large number of garment hangers 22, the ends of which are closely adjacent the inclined sides or members of the gabled upper end wall, and it is adapted to be moved along the track to arrange it within the trunk, or to carry the hangers beyond the trunk for displaying its contents. The anti-friction devices enable the carriage to slide freely along the track, and it forms a support for the garment hangers when it is arranged within the trunk and also when moved outward therefrom. The trunk may be made of various sizes to suit the character of the goods to be displayed, and it is particularly designed for the use of traveling salesmen for displaying model garments, and it will enable a large number of the same to be easily carried and conveniently displayed without mussing the same. When the carriage is moved into the body of the trunk, it is supported by the fixed rail, as clearly shown in Fig. 2 of the drawings.

The outer end 23 of the central vertical web or flange of the foldable track is extended beyond the bottom flanges, and is perforated to form an ear for the reception of a pintle 24, which is arranged between spaced ears 25 of a hinge element 26, having a grooved shank secured within the upper end of the standard. The ears 25 are rounded at their outer faces and the groove 27 of the hinge element registers with a longitudinal slot 28 of the standard, which is preferably constructed of tubular metal. The slot 28 extends from the upper hinged end of the standard to within a short distance of the lower end 29, and it is of a size to receive the central web or flange of the foldable web when the parts are folded, as clearly shown in Figs. 2 and 9 of the drawings. In folding the track, the section 6 is swung downwardly and rearwardly into the body portion of the trunk, and when folded it is arranged in a vertical position. The standard, which folds compactly against the section 6, is also arranged vertically within the trunk, which is preferably provided at the bottom with a cleat 30 to form a stop for the lower end of the vertically arranged section of the track. When the hinged section is arranged vertically, as shown in Fig. 2, it forms a stop for holding the carriage against outward movement.

The lower end of the tubular standard is detachably fitted on a vertical stem 31 of an approximately T-shaped foot 32, constructed of tubular metal and consisting of a central socket and horizontal arms, extending from the socket and provided at their outer ends with caps 33. The foot may be constructed in any other suitable manner and the stem, which is preferably tubular as shown, fits within the lower end of the standard and is provided with a shoulder 34, arranged at the lower portion of the stem and receiving the lower edge of the standard. The foot is readily fitted to the standard when it is desired to arrange the display rack for use, and it may be readily detached from the standard when the rack is folded within the trunk.

I disclaim as a part of my invention, the following subject matter: A trunk or compartment having a rigid gabled upper end wall and open at the front, and a suspension device within said gabled end and arranged beneath the ridge of said wall and parallel thereto. A trunk or compartment having a rigid gabled upper end wall and open at the front, and a suspension device within said gabled end and arranged beneath the ridge of said wall and parallel thereto, and movable outward through the open front. A trunk or compartment having a gabled upper end and a suspension device within

said gabled end and arranged beneath the ridge of said end and parallel thereto, including a detachable hanger, the ends of which are arranged closely adjacent to the inclined members of the gabled end for the purpose set forth.

Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. A display rack of the class described including a carriage, an inverted T-shaped track composed of fixed and hinged rails consisting of horizontal bottom flanges and a vertical web extending upwardly from the bottom flanges, and a fixed bracket secured to the vertical web of the fixed rail and supporting the ends of the same and extending beyond the fixed rail to receive the adjacent end of the hinged rail.

2. A display rack of the class described including a carriage, an inverted T-shaped track composed of fixed and hinged rails consisting of horizontal bottom flanges and a vertical web, a fixed bracket provided with a groove receiving the upper edges of the adjacent portions of the webs of the fixed and movable rails, said bracket being rigidly secured to the fixed rail, and means for detachably securing the hinged rail directly to the fixed bracket.

3. A display rack of the class described including a carriage, an inverted T-shaped track composed of fixed and movable rails consisting of horizontal bottom flanges and vertical webs, a hinge located beneath the track and having its leaves fitted flat against and secured to the lower faces of the said bottom flanges and connecting the fixed and foldable rails, a fixed bracket secured to the vertical web of the fixed rail and extending beyond the same to the web of the foldable rail, and means for detachably securing the foldable rail directly to the fixed bracket.

4. In combination with a trunk or compartment, an inverted T-shaped track arranged beneath the top wall of the trunk or compartment and in parallelism with the same and consisting of horizontal bottom flanges and a vertical web, and a bracket comprising a central depending web provided at the bottom with a groove receiving the vertical web of the track, and side flanges extending from opposite sides of the depending web and secured to the top wall of the trunk or compartment.

5. A display rack of the class described including a track having a foldable T-shaped rail, and a standard hinged to the free end of the rail for supporting the same and provided with a longitudinal slot arranged to receive a flange of the said rail when the parts are folded.

6. The combination with a trunk, of a track including fixed and foldable rails, the foldable rail being hinged to the fixed rail, inner and outer brackets securing the fixed rail within the trunk at the top thereof, the foldable rail being arranged to swing downward to a vertical position within the trunk, means for detachably securing the foldable rail directly to the outer bracket, a stop arranged at the bottom of the trunk and forming an abutment for the foldable rail, a standard hinged at its outer end to the foldable rail, and a carriage suspended from the track.

7. The combination with a trunk, of a track including fixed and foldable rails T-shaped in cross section, the foldable rail being hinged to the fixed rail, brackets securing the fixed rail within the trunk at the top thereof, the foldable rail being arranged to swing downward to a vertical position within the trunk, a stop arranged at the bottom of the trunk and forming an abutment for the foldable rail, a standard hinged at its outer end to the foldable rail, and a carriage suspended from the track.

8. A display rack of the class described including a track having a foldable rail T-shaped in cross section, a tubular hanger hinged to the foldable rail and provided with a slot to receive the central web or flange of the foldable rail, said slot terminating short of the free end of the standard, and a foot having a stem fitting in the free end of the standard.

In testimony, that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

CHARLES A. KUNTZENDORF.

Witnesses:

AUGUST TORPE, Jr.,

OTTO P. LEX.