March 8, 1949. J. P. SACKS 2,463,911

EXTENSION TABLE

Filed Feb. 14, 1944 3 Sheets-Sheet 1

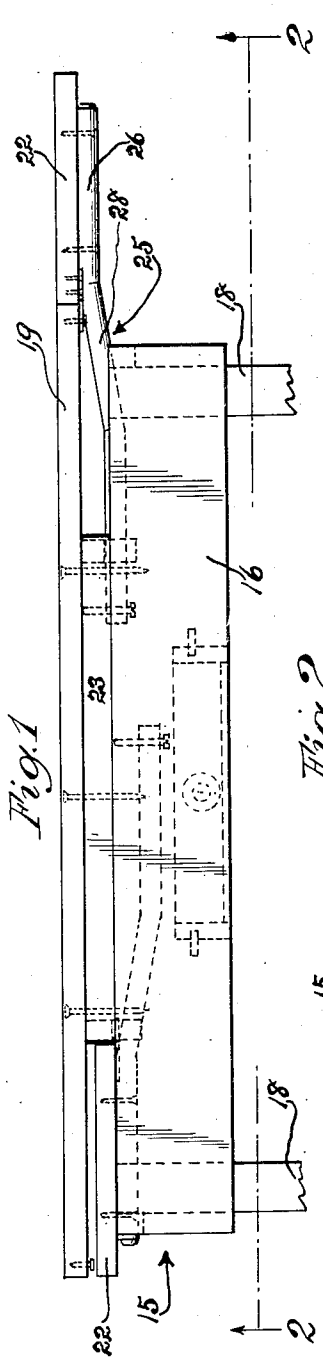


Fig. 1

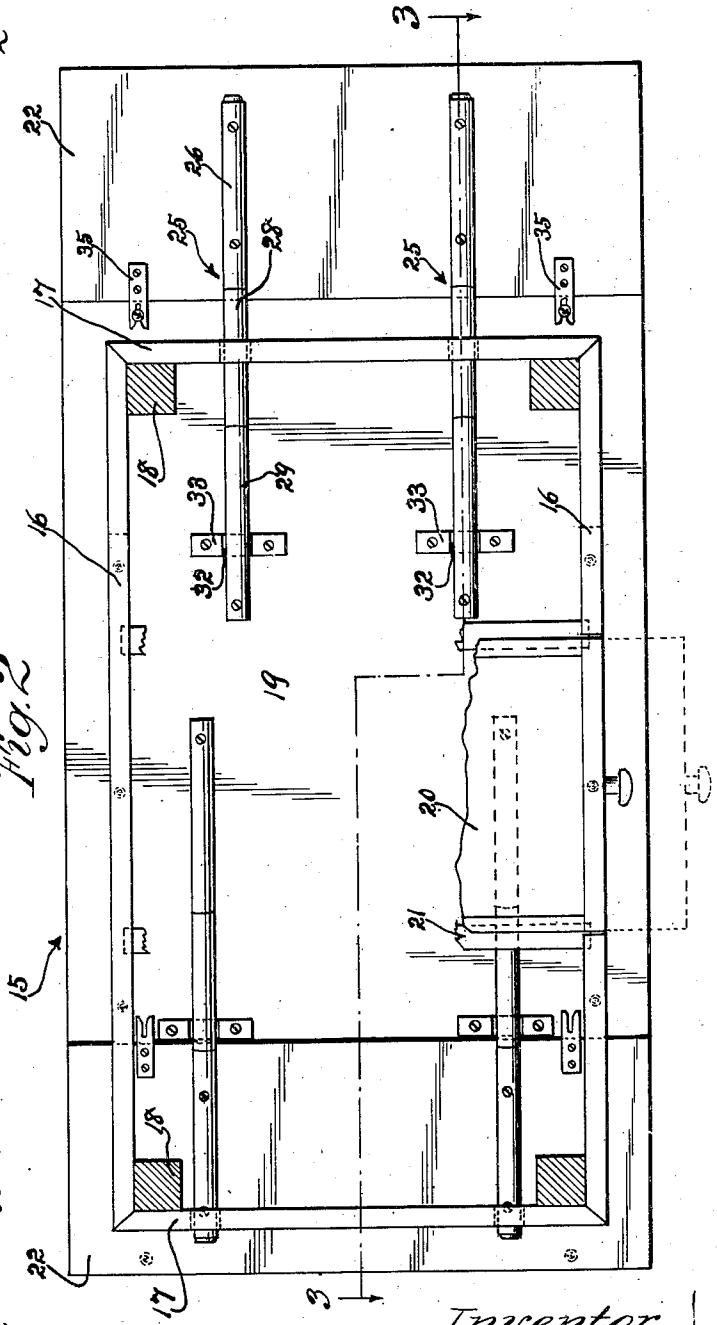


Fig. 2

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EXTENSION TABLE

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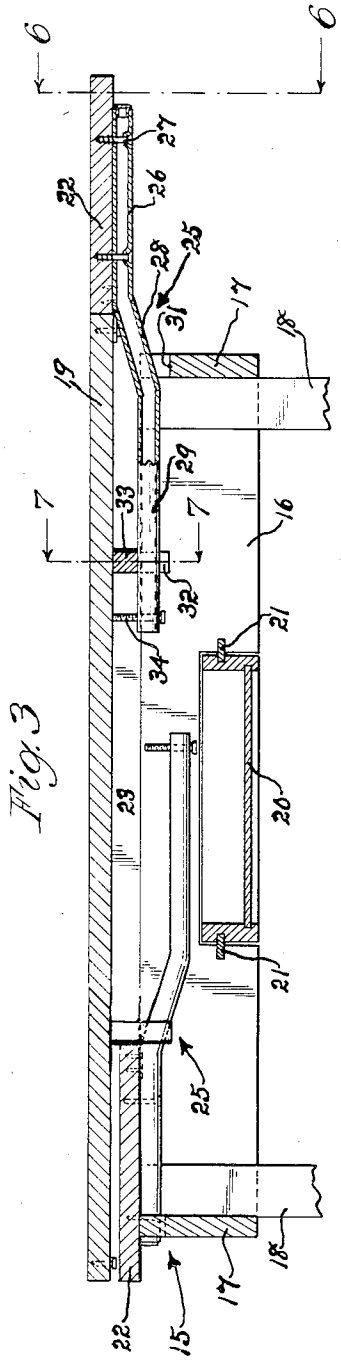


Fig. 3

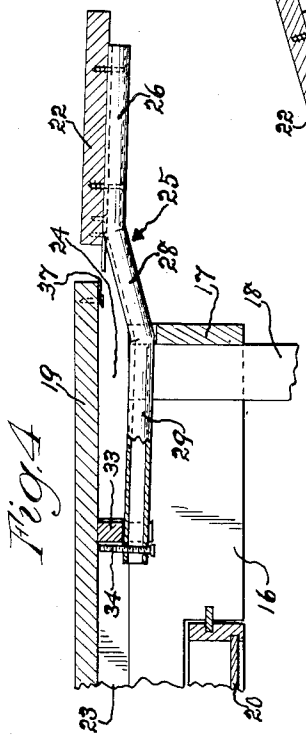


Fig. 4

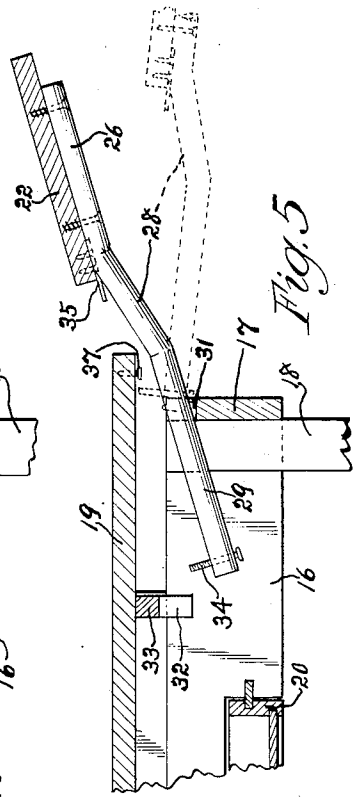


Fig. 5

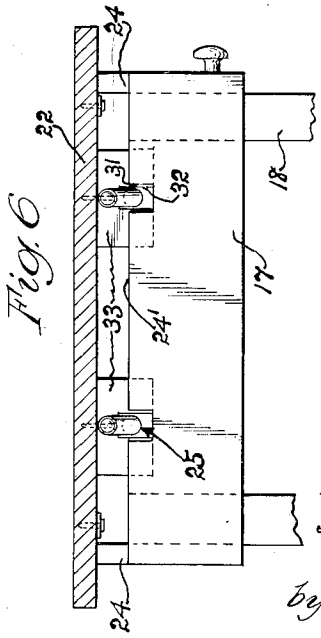


Fig. 6

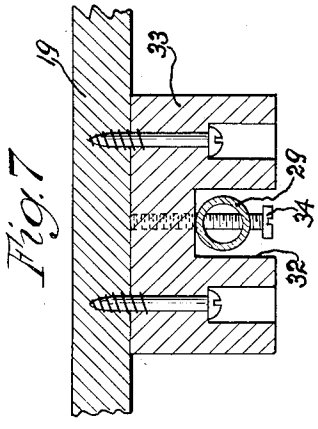


Fig. 7

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EXTENSION TABLE

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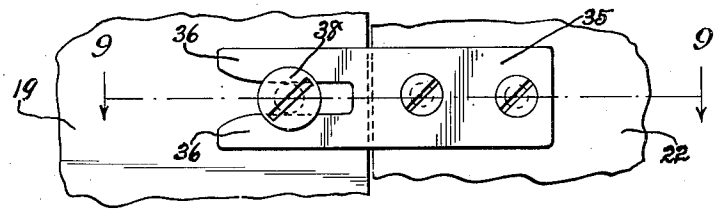


Fig. 8

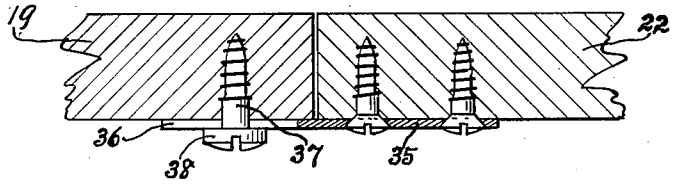


Fig. 9

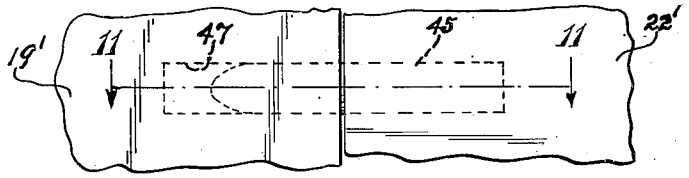


Fig. 10

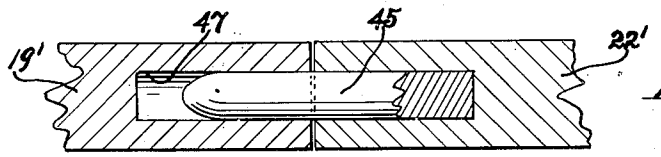


Fig. 11

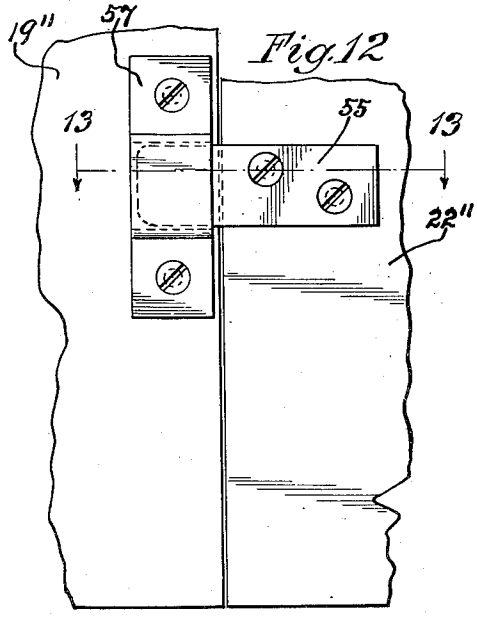


Fig. 12

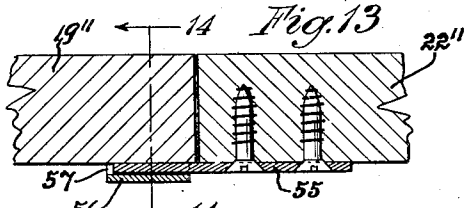


Fig. 13

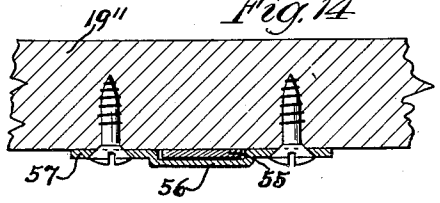


Fig. 14

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Patented Mar. 8, 1949

2,463,911

UNITED STATES PATENT OFFICE

2,463,911

EXTENSION TABLE

Julius P. Sacks, Chicago, Ill.

Application February 14, 1944, Serial No. 522,276

5 Claims. (Cl. 311—56)

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This invention relates to useful improvements in extension tables.

One of the essential objects of this invention is to provide an extension table which is arranged to be simple in its construction so that it can be manufactured and placed on the market at a minimum of cost, and which at the same time can be conveniently and readily manipulated into and out of its extended position.

Another object of this invention is to provide an extension table wherein the extension leaf can be readily adjusted from one position to another and will be safely held in such position, and wherein such leaf can also be readily withdrawn from the table, for making repairs and the like, without any need of removing screws or bolts and the like.

These and various other objects and advantages are attained with this invention, as will become apparent from the following description, taken in connection with the accompanying drawings wherein the invention is shown in its more desirable form, it being evident that other arrangements and forms of construction may be resorted to in carrying out the objects and purposes of the invention.

In the drawings:

Fig. 1 is a side view illustrating the upper part of an extension table including my invention, and showing one leaf in its extended position and the other leaf retracted.

Fig. 2 is an inverted plan view thereof, taken along line 2—2 of Fig. 1, showing parts in section and parts broken away.

Fig. 3 is a sectional view, taken on line 3—3 of Fig. 2.

Figs. 4 and 5 are partial vertical sectional views showing the extension leaf and its supporting bars in various positions.

Fig. 6 is a sectional view, taken on line 6—6 of Fig. 3.

Fig. 7 is an enlarged fragmentary sectional view, taken on line 7—7 of Fig. 3.

Fig. 8 is a detail view of one form of interengaging elements provided on the adjoining parts of the table top and the leaf.

Fig. 9 is a sectional view thereof, taken on line 9—9 of Fig. 8.

Fig. 10 is a detail view of another form of interengaging means; and Fig. 11 is a sectional view thereof, taken on line 11—11 of Fig. 10.

Fig. 12 is a detail view of yet another form of such interengaging means; while Fig. 13 is a sectional view thereof, taken on line 13—13 of Fig. 12; and Fig. 14 is a sectional view taken on line 14—14 of Fig. 13.

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This invention is illustrated in the drawings in a preferred form of construction, comprising a stationary table part or unit 15, which includes a frame containing side members or rails 16 and end members or rails 17 secured together and mounted on supporting legs 18, and this unit also includes a stationary section or table top 19 which is fixedly mounted on the frame.

A drawer 20 is furnished with this table when desired, and it is preferably supported slidably on guide bars 21 provided on the frame, substantially as indicated in the drawings.

Suitable extension sections or leaves 22 are mounted at the two opposite parts of the table top, either at the two ends or at the two sides of the top, and they are shown herein as positioned at the two opposite ends of this table top 19. A suitable slot for receiving the leaf, in its retracted position under said table top, is therefore herein provided at each end of this table; and this is conveniently and economically accomplished by mounting a strip 23 on each side rail 16, being a trifle thicker than the leaf 22 to provide ample clearance and slidable movement for the leaf, thereby providing a pair of slots 24 between the upper end parts of the side rails and the table top and also a companion slot 24' between the adjoining end rail and said top, for housing the leaf therein.

Each leaf is carried on a pair of bars 25, being secured on the outer parts 26 of said bars, by suitable elements 27. These bars may be constructed of metal or of wood, and are preferably made of tubular metal, thus combining comparative lightness and strength; and each bar is doubly bent to provide a bent intermediate part 28, so arranged that the outer leaf-carrying part 26 of the bar is positioned higher than its inner part 29, but is substantially parallel thereto, as indicated in the drawings. This construction thus provides that all these bars 25 are alike and interchangeable, and no right-hand and left-hand bars are required of different construction, as is usually needed with the known extension tables.

Guideways are provided for each pair of leaf-carrying bars 25, and the same include a pair of notches 31 provided in the end rail 17 and also a pair of notches 32 provided in a pair of blocks or saddle members 33 which are secured to the nether side of the table top 19. These guideways are arranged so that the bars are slidably movable in a right-line direction therein and will

thus aid in keeping the side of the leaf parallel to the adjoining end of the table top, to bring the extended leaf in correct fitting position with the top.

A stop element 34 is provided at the inner end of each bar 25, adapted to engage the block 33 and normally limit the outward movement of the bar; and this element 34 is adjustably mounted in the bar, so that it can be adjusted to bear under the top 19 and aid in supporting the bar and the leaf in various positions, as indicated in Figs. 3 and 4 of the drawings.

Cooperating interengaging means or elements are provided on the leaf and on the adjoining part of the table top, to retain the extended leaf firmly in position at the correct level with the top; and this means is being provided in either of several desirable forms, as variously indicated in Figs. 8 to 14 of the drawings.

In Figs. 1 to 9 said interengaging means or elements are shown in the form of a plate or finger 35 which is secured underneath the leaf 22 and has a slotted end part providing spaced end portions or tines 36 that engage the shank portion of a screw 37, between the head 38 of the screw and the nether face of the table top 19 from which this screw extends, as best shown in Fig. 9.

In Figs. 10 and 11 such interengaging means or elements are shown in the form of pegs 45 secured to and extending from the leaf 22', adapted to engage in bores 47 provided in the adjoining part of the table top 19'.

In Figs. 12, 13 and 14 the interengaging means or elements are shown in the form of a latch or tongue 55 which is secured underneath the leaf 22'' and projects therefrom toward the table top 19'', adapted to engage in a pocket portion 56 of a saddle or strap 57 secured underneath the adjoining part of the table top, as indicated in the drawings.

It should be noted that with this construction, by using the top strips 23 on the frame rails and thereby providing slots for receiving the leaves therein, these side rails and end rails can be economically made of the same stock; and also that hereby the guide notches 31 in the rails need not be cut deep nor weaken the rails. This becomes of considerable importance where the leaf is mounted on the side of the top, as customarily the side rail is also cut or notched for receiving the slidable drawer, in the known table now on the market; whereas, with my table the guide notches in the top part of the rail are shallow and leave sufficient material in the rail, between such guide notches and such a drawer notch in the lower part of the rail, as to maintain a comparatively strong rail.

It is apparent from the above disclosure, as best seen in Fig. 4, that the stop elements 34 normally limit the outward movement of the leaf-carrying bars 25, by engaging the blocks 33; and since each of the elements is adjustable in the bar it may furthermore be made to engage underneath the table top 19, in several positions, as indicated in Figs. 3 and 4, and said elements 34 will then be instrumental in holding the extended bars and the leaf in proper position.

It should be noted that with this invention the notches 31 in the end rail 17 and the notches 32 in the blocks 33 are arranged so that by tilting the leaf excessively upwards, as shown in Fig. 5, these elements 34 will clear the blocks with their notches, and then likewise the rail notches, and thus the pair of leaf-carrying bars may be readily withdrawn from the stationary table unit 15, for making repairs and the like, without first removing any screws or bolts or the like as is required with the known extension tables.

It is also apparent that herein the bent intermediate parts 28 of the pair of bars 25 will induce the leaf to be moved upwards automatically as it is being drawn outward, to the position shown in Fig. 4, and will thus assist in placing the leaf in its proper elevated position, to be conveniently pressed against the table top as shown in Fig. 3. It further appears from Figs. 3 and 4 that when the leaf is in its extended position the inner ends of the bars 25 bear under the saddle blocks 33, and are thus instrumental in holding their outer parts and the leaf in place; and these blocks are also instrumental in limiting the inward movement of the leaf to its retracted position, as best shown at the left-hand side of Fig. 2.

I claim:

1. An extension table comprising a stationary table part including frame rails and a table top supported thereon, a slidable leaf and bars secured thereunder, blocks secured underneath said top and having bottom notches therein and there being notches in the top part of one of said rails, thereby providing guideways wherein the bars are slidably mounted, the bars having intermediate bent portions to place their outer leaf-carrying parts above but parallel to their inner parts and cause the leaf to move upward to the level of the table top while being drawn outward, interengaging means on the adjoining parts of said leaf and top to hold them firmly joined in level position, and adjustably mounted projecting elements at the inner ends of the bars adapted to engage said blocks and normally limit the outward movement of the leaf and the bars, and said bent portions arranged to be movable in said notched portions of said frame rails for said elements to clear all of the notches and facilitate convenient withdrawal of the bars from the stationary table part by an upward tilting movement of the leaf while extending it.

2. The subject matter set forth in claim 1, wherein said elements are in the form of screws adjustably mounted in the bar ends and adapted to engage underneath the table top and aid in supporting the leaf in various extended positions.

3. An extension table comprising a stationary table structure including side rails and end rails all of substantially equal height and stock, a pair of strips mounted on two opposite rails, a table top secured upon said strips and extending beyond the ends of the strips thereby providing a pair of slots between said top and said rails, a leaf adapted to be housed in one of the slots and having a pair of bars secured under it, notched means underneath the top and notched parts in a pair of said rails, thereby providing guideways for the pair of bars, said bars being bent at their intermediate parts to place the outer leaf-carrying parts above but parallel to the inner parts and cause upward movement of the leaf to the level of said top while being drawn outward, and means at the inner ends of the bars to engage said notched means and limit the outward movement of said bars and leaf, said notched means also having a part positioned to engage the leaf and limit the inward movement of the leaf in its retracted position.

4. An extension table comprising a stationary table structure including a pair of side rails and a pair of end rails all of substantially equal height and stock, a pair of strips secured on one of the

pair of rails, a table top mounted upon said strips and extending beyond the ends of the latter thereby providing slots between said top and said rails, a leaf adapted to be housed in one of said slots and having a pair of bars secured under it, blocks secured underneath the top and having bottom notches therein, there being notches in the upper parts of one of the rails, said notches together providing guideways wherein the pair of bars are slidably mounted, the bars having intermediate slanting portions placing their outer leaf-carrying parts above but substantially parallel to their inner parts, whereby to cause upward movement of the leaf to the level of the top by moving the leaf to its extended position, means to retain the leaf firmly in place level with the top, and elements adjustably mounted in the inner ends of the bars to engage the blocks and limit the outward movement of the bars and also adapted to engage underneath the top and aid in retaining the extended leaf in position, and said bent portions arranged to be movable in said notched portions of said frame rails for said elements to clear said notches for convenient removal of the bars and leaf from the stationary structure by an upward tilting and outward movement of the leaf.

5. An extension table comprising a stationary table structure consisting of a pair of side rails and a pair of end rails all of substantially equal height and stock and having supporting legs thereunder, a pair of strips on one of the pair of rails, a table top mounted upon said strips and extending beyond the ends of the same thereby providing slots between said top and said rails, an extension leaf adapted to be housed in one of the slots and having a pair of bars secured thereunder, blocks secured underneath the top and having bottom notches therein, also notches provided in the upper part of one of the rails, said notches together providing guideways wherein said bars are slidably mounted, the bars having intermediate slanting portions thereby placing their outer leaf-carrying parts above but parallel to their inner parts, to cause upward movement of the leaf to the level of the table top by moving the leaf to extended position, interengaging means on the adjoiniing parts of the leaf and the top to hold them firmly in position, and screws adjustably mounted in the inner ends of the bars to engage the blocks and limit the outward movement of the bars and leaf and also adapted to engage underneath said top and aid in supporting the leaf in an extended position, said bent portions arranged to be movable in said notched poritions of said frame rails for said elements to clear the notches for convenient and prompt removal of the bars and leaf from the stationary structure by an upward tilting and outward movement of the extended leaf, said blocks having a part positioned to engage the leaf and limit the inward movement of the leaf in its retracted position.

JULIUS P. SACKS.

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