This invention relates to a support and more particularly to a rotating and reciprocating table top. More specifically, the invention relates to an improved table construction especially suitable for supporting a unit such as a television receiver.

In the operation of television receivers it is extremely desirable to provide an adjustment for the console unit or for the table on which a receiver is mounted so that the television screen can be swung to a variety of positions for viewing at various angles. At the same time it is desired that the receiver and table are positioned sufficiently close to the wall or adjacent furniture so that a minimum of space is used for the location of the receiver. Rotating circular table tops have been provided and these generally are satisfactory from the standpoint of viewing. These tops however being round or circular are undesirably large and necessarily in themselves take up considerably more space than the rectangularly shaped receiver which is supported on the top. Thus excessively large floor space is required by such a circular top construction. A rectangular rotating top is of course the most desirable but the disadvantage with this construction is that the stand and top as a unit must be moved away from the wall to permit the top to rotate without interference with the wall. The disadvantages of moving the heavy stand and receiver are of course obvious and thus a construction of the above type is quite impractical. It is applicant's prime object therefore to provide an improved table top which will completely eliminate the disadvantages apparent from the above constructions.

A further object is to provide an improved table top, the top having an improved construction whereby the top may be rotated and simultaneously reciprocated with respect to a supporting stand or frame.

A further object is to provide a rectangular table top, the top being rotatably supported on a sliding carriage, the carriage being moveable linearly with simultaneous rotation of the table top. Still another object is to provide an improved rectangular table top, the top being rotatably mounted on a carriage which is positioned for relative reciprocatory movement on a stationary stand, the top being engageable with a guide member arranged to reciprocate the carriage during rotating movement of the top on said carriage.

These and further objects of the invention will become more fully apparent from a reading of the specification when examined in connection with the accompanying sheet of drawing.

In the drawing:

Figure 1 is a plan view of a table showing a table top in phantom lines to better illustrate a mechanism underneath the top.

Figure 2 is a sectional view through a table shown in Figure 1, the view being taken substantially along the line 2—2 showing a table top in a certain rotated position.

Figure 3 is a sectional view taken along the line 2—3 of Figure 1.

Figure 4 is a sectional view taken along the line 4—4 of Figure 1.

Figure 5 is a fragmentary plan view showing means for limiting or stopping rotation of a table top.

Referring particularly to Figures 1 and 2 a support or table construction is generally designated by the reference character 10. The support 10 comprises a stand 11 having upright less 12 which support a frame 13. The frame 13 comprises forward and rearward spaced members 14 and 15 which are connected by laterally spaced horizontally extending braces 16. The braces 16 are suitably recessed to provide a forwardly and rearwardly extending tracks 17. A roller carriage 18 is supported on the tracks 17. The carriage 18 comprises a beam 19 extending laterally with respect to the tracks 17. The beam 19 is supported at its ends by oppositely disposed rollers 20 which are contained in a vertically bored beam 21 and angle brackets 22 suitably connected to the beam 19. The rollers 20 are carried by the tracks 17 and permit the carriage to slide and reciprocate on the flat horizontal surface of the frame 13 as presented by said tracks.

A rectangular top 23 is positioned on the carriage 18. The top is rotatable on the carriage 18 by means of a pivot pin 24 which is rigidly secured to the top 23 and is journaled in a vertical bore 25 extending through the beam 19. A cotter pin 26 extends through the pin 24 for removably securing the pin 24 on the carriage 18.

The top 22 has a pair of guide elements or dowel pins 27 projecting downwardly from the top 23. The pins 27 are laterally spaced so that one pin 27 is disposed adjacent to each of the rearmost corners of the top.

A guide member generally designated as 28 is positioned on the frame 13. The guide member consists of a groove 29 cut in the member 15, this groove 29 extending horizontally across the
frame 13 in a direction at a right angle with respect to the direction of movement of the carriage 18. The groove 29 is formed with adjacent parallel walls 33 and 31, the wall 33 being cut out at its ends, as indicated at 32 to permit entrance of the pins 27 into the groove 29 during rotation of the top 23.

In Figure 2 the table 10 is positioned immediately adjacent a wall 33 and a television receiver or other unit (not shown) may be carried on the top.

In order to adjust the article carried on the top for better viewing or for any other reason that angular positioning is desired, the top 23 may be rotated without moving the stand 3 away from the wall 25 or without changing its position in any way.

In the normal or non-rotated position of the top 23 both pins 27, are shown in sliding engagement with the groove 29. The table top 23 is then rotated on its pivot 24 in a clockwise direction and one of the pins 27 moves out of the groove 29, one pin remaining in the groove. Upon continued rotation, the pin 27, in the groove, is moved in a straight line or linear direction at a right angle with respect to the direction of movement of the carriage 18, whereupon the carriage 16 and the table 23 are moved forwardly to the dotted line position shown in Figure 1 whereupon an angular adjustment of the top of approximately 45 degrees is obtained. A second rotation of the top is continued in the same direction for another 45 degrees, the carriage 16 and table 23 will now recede, or move rearwardly toward the wall 33. This rearward movement of the carriage is stopped when the pin 27 strikes or engages one end of the member 14 thereby limiting further clockwise rotation of the top, as best shown in Figure 5. In this extreme rotated position one side of the top 23 will be substantially parallel to and adjacent the wall 33, an approximately full 90 degrees of rotation having been obtained.

Since the top may also be rotated in the same manner in a counterclockwise direction a full 180 degrees of movement may be had, the pins 27 acting as stop to limit the rotation of the top at either extreme position.

A flat surface is provided on the top and adjacent wall structure. The novel top is of course intended as adaptable for supporting any unit where angular adjustment of the same is desired without the necessity of moving the whole table structure. The term "table" is of course used in a broad sense since the principle above set forth may be used with any support where a frame and table top are provided.

It is believed that a novel structure or support has been set forth, the structure including a novel combination whereby a rectangular table top may be rotated and simultaneously moved linearly to provide for clearance of the top with respect to adjacent structure. It must be understood that only a preferred embodiment has been shown and that changes may be made which do not depart from the spirit of the invention as disclosed and as defined in the appended claims.

What is claimed is:

1. A table comprising a frame having a flat horizontally extending surface providing a roller track, a roller carriage positioned on said track for relative reciprocation with respect to said frame, a table top, vertical pivot pins pivotally connecting said table top to said roller carriage whereby the top may pivot about a vertical axis with respect to said frame, means for reciprocating said top and said roller carriage simultaneously with pivotal movement of said top comprising a guide member supported horizontally across said frame and a pair of laterally disposed pins projecting from the top, said pins being in engagement with said guide member during rotation of said top, at least one of said pins being in engagement with said guide member during any position of said top, the pin in engagement with the guide member being movable in a straight line direction across the frame, whereby said rotating top and said roller carriage are reciprocated in a direction at a right angle with respect to straight line direction of movement of the pin which is in engagement with the guide member.

2. A table comprising a frame having a flat horizontally extending supporting surface, a carriage supported on the surface for relative sliding movement, a rectangular table top rotatably supported on the carriage for rotating movement about a vertical axis, means for sliding the carriage and the top relative to the frame comprising a guide element adjacent a pair of corners of the top, and a stationary guide member connected to the frame, said guide elements being rotatable with the top into engagement with the guide member whereby the guide elements are moved in a relatively straight line direction across the frame and said carriage is simultaneously moved with top in a horizontal direction substantially perpendicular with respect to the direction of movement of the guide element in engagement with the guide member.

3. A table comprising a frame having a flat horizontally extending top including a track, a carriage supported in said track and adapted to reciprocate with respect to said frame for rotatably shaped top supported on the carriage for rotating movement about a vertical axis, means for reciprocating said carriage during simultaneous rotation of said top comprising a guide member stationarily positioned and extending in a direction angularly with respect to the direction of reciprocation of said carriage, and guide elements connected to the top adjacent to said guide member, said guide elements being adapted to engage the guide member during rotation of the top and be restrained by said guide member to move in a straight line direction angularly disposed with respect to the direction of reciprocation of said carriage whereby said carriage and top are reciprocated.
4. A table as claimed in claim 3 wherein the top includes means engageable with the frame for limiting clockwise and counter-clockwise rotation of the top.

GORDON G. McNAMARA, Jr.

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The following references are of record in the file of this patent:

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