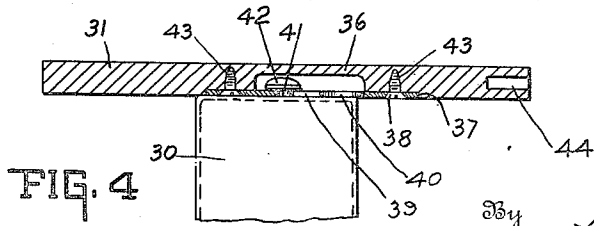
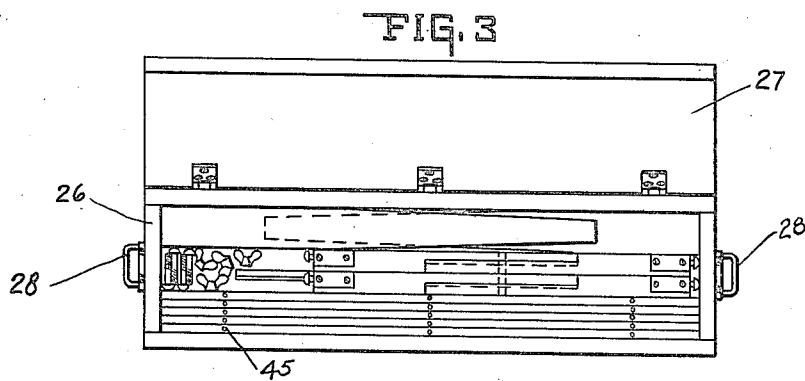
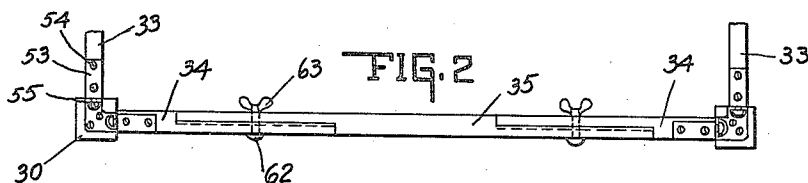
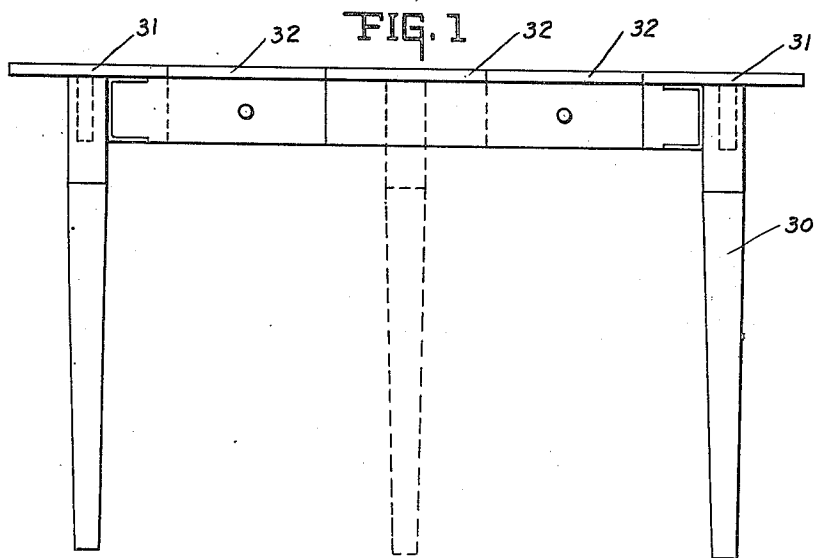


1,422,246.

J. D. ADAMS.
KNOCKDOWN TABLE,
APPLICATION FILED MAR. 18, 1921.

Patented July 11, 1922.

3 SHEETS—SHEET 1.



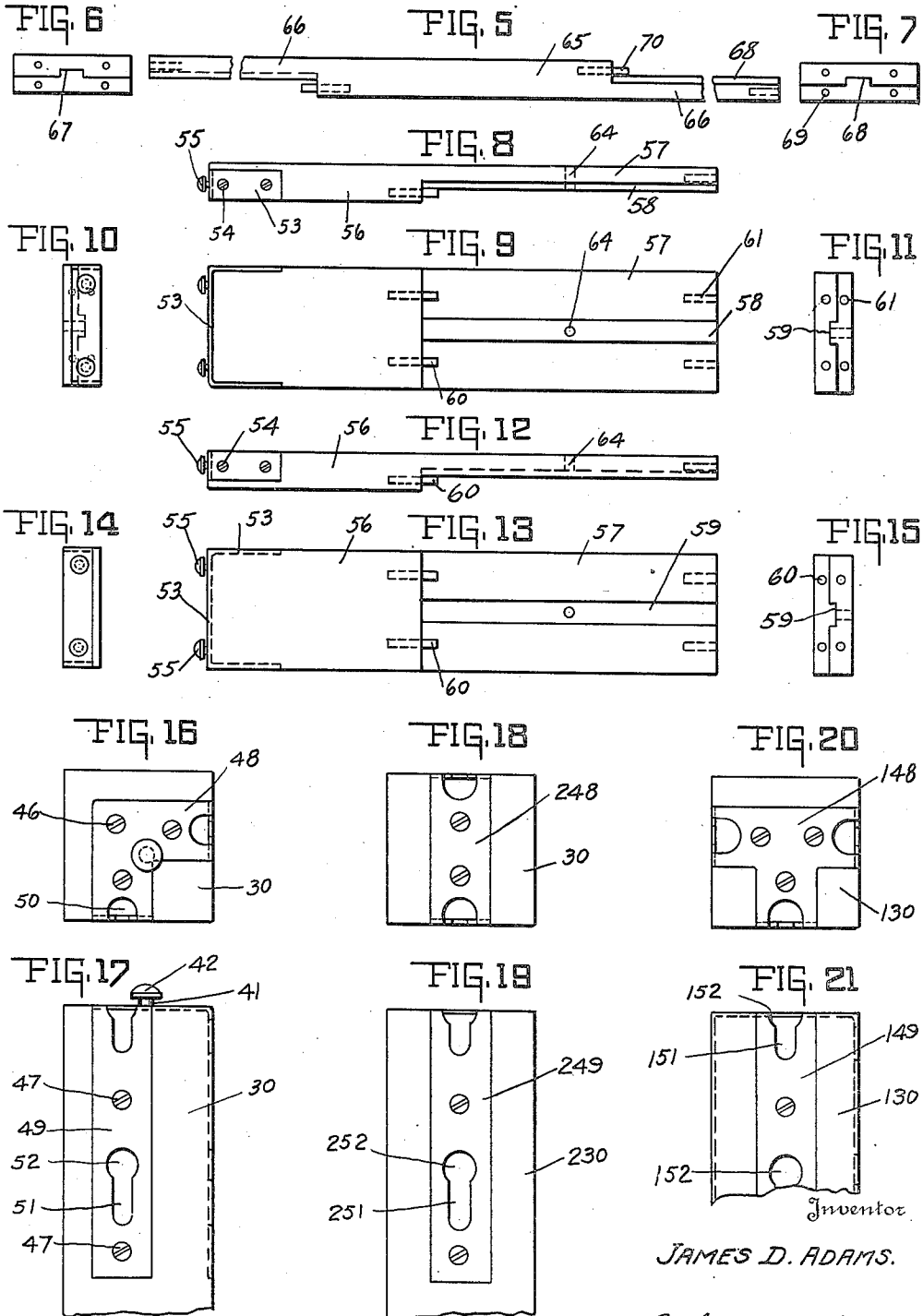
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1,422,246.

Patented July 11, 1922.

3 SHEETS—SHEET 2.



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3 SHEETS—SHEET 3.

FIG. 22

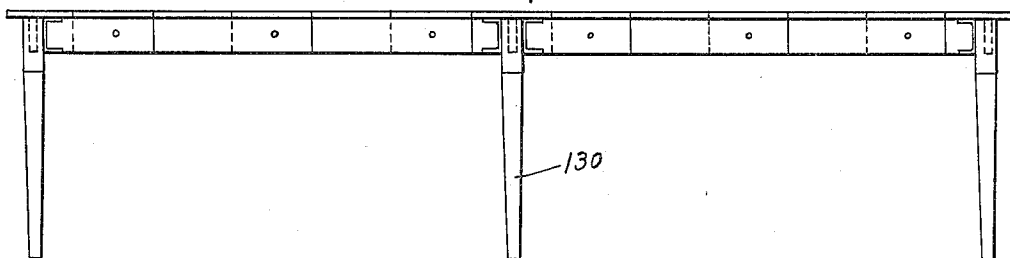


FIG. 23

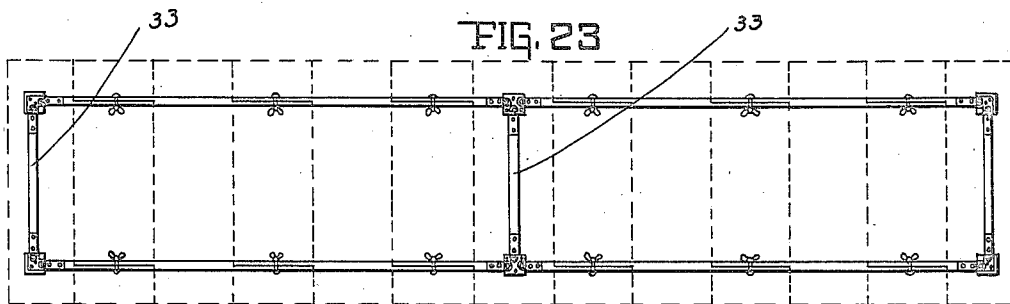


FIG. 24

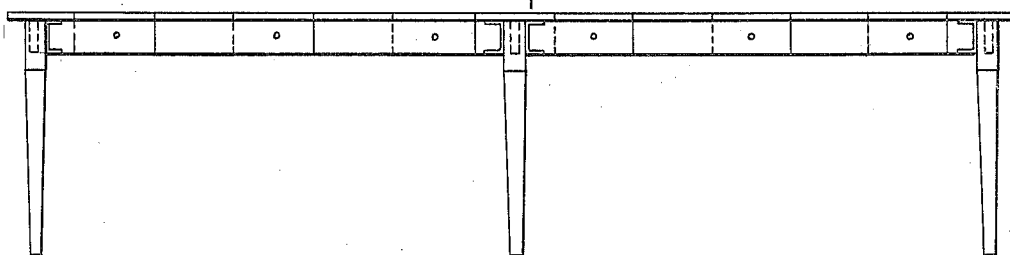


FIG. 25

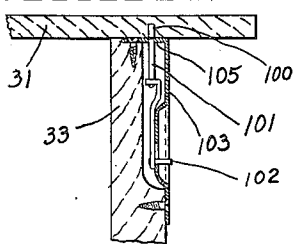
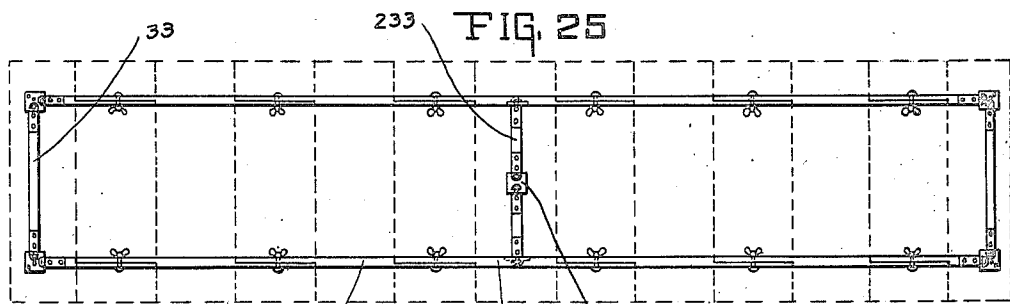


FIG. 26

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KNOCKDOWN TABLE.

1,422,246.

Specification of Letters Patent.

Patented July 11, 1922.

Application filed March 18, 1921. Serial No. 453,252.

To all whom it may concern:

Be it known that I, JAMES D. ADAMS, a citizen of the United States, and a resident of Wabash, county of Wabash, and State of Indiana, have invented a certain new and useful Knockdown Table; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which like numerals refer to like parts.

This invention relates to a knockdown table construction.

The chief object of this invention is to construct a table in such a manner that the same may be readily disassembled into its component parts so that a knockdown construction will be obtained which will permit said assembled parts to be compactly arranged for storage or transportation purposes when in the knockdown condition.

Another object of the invention consists in so constructing the table forming parts that they may be cheaply constructed in production by turning out each piece independently by machines, and may be quickly assembled by relatively unskilled labor, thereby dispensing with skilled and time consuming cabinet makers.

Still another feature of the invention consists in the construction of the several parts of the table such that the same may be associated together to form a knockdown table such that it may be extended to any length desired without weakening it at any point.

The full nature of this invention will be understood from the accompanying drawings and the following description and claims.

In the drawings Fig. 1 is a front elevational view of a table embodying the features of the invention. Fig. 2 is a top plan view of a portion of the table legs and side forming means, the top being removed therefrom. Fig. 3 is a top plan view of an open cabinet showing the table parts when in knockdown relation and compactly arranged in said cabinet, the number of parts corresponding with the number required to form the table shown in Figs. 1 and 2. Fig. 4 is a sectional view of the table top forming means and a leg showing the same in the table forming and associated relation. Figs. 5 to 21 inclusive are enlarged views of details of the knockdown construction. Fig. 5 is a plan view of one of the side forming

extensions. Fig. 6 is an end view of the same taken at the left hand end thereof. Fig. 7 is a similar view taken of the right hand end. Fig. 8 is a plan view of an end portion of the side forming means. Fig. 9 is an elevational view taken at right angles to Fig. 8 and of the same part. Fig. 10 is an end view of the left hand end of the part shown in Fig. 9. Fig. 11 is a similar view of the right hand end of said part. Fig. 12 is a view similar to Fig. 8 and of a similar part, except that said part is of reverse construction, one being for the right hand end and the other being for the left hand end of a side forming means of the table. Fig. 13 is an elevational view taken at right angles to Fig. 12 and of the same part. Fig. 14 is an end view of the left hand end of the part shown in Fig. 13. Fig. 15 is an end view of the right hand end of the part shown in Fig. 13. Fig. 16 is a top plan view of a corner table leg. Fig. 17 is a side view of a portion of the same. Fig. 18 is a top plan view of an intermediate table leg. Fig. 19 is a side view of a portion of the same. Fig. 20 is a top plan view of an intermediate table leg serving the same purpose as the table leg illustrated in Figs. 13 and 19, but providing for cross members. Fig. 21 is a side elevational view of a portion of the table leg shown in Fig. 20. Fig. 22 is an elevational view of the table showing the same extended from that shown in Fig. 1. Fig. 23 is a top plan view of said table with the top removed therefrom, the top being indicated by dotted lines. Fig. 24 is an elevational view of a modified form of table showing the same extended and provided with intermediate cross bracings. Fig. 25 is a top plan view of a modification shown in Fig. 24, the table top being removed therefrom and herein shown dotted. Fig. 26 is a sectional view of a locking means between the table top and the supporting framework.

In the drawings there is illustrated a cabinet 26 having a lid 27 hingedly supported thereon and also having the handles 28 for more readily transporting the same. Within the cabinet 26 is positioned, in compact arrangement as illustrated, the top forming means, the sections of which are herein termed leaves, the adjustable legs or posts, the sectional and adjustable side forming means, and the auxiliary means for rigidly

securing the aforesaid members in rigid and adjustable relation when assembled in such relation.

The adjustable table legs are herein indicated by the numeral 30 and said table legs may be of any conventional and preferred shape, but each leg preferably provides a pair of adjacent faces at right angles to each other. Hence, the table construction when assembled forms a square or rectangular table. The top forming means is of two substantially similar kinds of sections, the end sections being indicated by the numeral 31 and the intermediate sections by the numerals 32. The side forming means may be integral or sectional, as desired, and in the table herein illustrated the transverse side forming means are indicated by the numerals 33 and are preferably integral, each side forming means 33 being associated with a pair of corner table legs 30, as shown most clearly in Figs. 23 and 25. The table legs are also connected by other side forming means herein termed the longitudinal side forming means, which preferably are sectional in form. Herein the numerals 34 indicate the end portion of the side forming means, while the numeral 35 indicates the intermediate sectional means.

As shown clearly in Figs. 1, 2 and 3, the rectangular table therein disclosed comprises four corner legs, two transverse side pieces, four longitudinal end sections and two intermediate longitudinal side sections suitably secured together and supporting five top forming leaf sections. The said parts are shown in Figs. 1 and 2 as assembled in the table forming relation, while in Fig. 3 said parts are shown compactly arranged for storage and transportation purposes, and in a knockdown condition. It is also to be understood that by omitting the intermediate side section 35 and two of the intermediate top forming leaf sections 32, a substantially square table will be obtained. Also by inserting two additional leaf sections 32 for each pair of oppositely positioned side forming sections 35 inserted, the table may be correspondingly increased in length such that the table may be extended as desired, such an extension being shown in Figs. 22 to 25 inclusive, wherein 13 leaf sections are shown. If desired the table may be extended even more than herein illustrated, or to an intermediate extent.

The end forming sections 31 are substantially identical. Each end forming section 31 is provided on its under face with a longitudinal recess 36 which is enlarged at 37 to receive a face plate 38, which face plate comprises a strap plate having an elongated slot 39 therein and an enlarged opening 40. The corner table leg 30 is provided with an upwardly extending pin 41 with a head 42. The width of the slot 39 is just sufficient to

receive the stem 41, while the opening is of sufficient size to receive the head 42, which head is retained within the recess or pocket 36 by the plate 38, said plate being suitably secured to said leaf sections 31 by the screws 43. It is to be understood that in production said recesses 36 and enlargement 37 thereof may be milled out or otherwise removed and the plate 38 then secured thereto, which plate may be a plain metal stamping. As shown clearly in Figs. 3 and 4, the end sections 31 upon the exterior edge are provided with a plurality of pin receiving openings or holes 44, herein three pin receiving openings being provided. In the present invention the end leaves are substantially as illustrated, while the intermediate leaves are not provided with the socket construction hereinbefore described, but opposite edges of said leaves are provided with a plurality of holes or recesses 44. The holes or recesses 44 of one edge of said leaves are provided with pins 45, see Fig. 3, which pins are firmly embedded in said holes and project outwardly therefrom in the usual manner as found on detachable table leaves. The pins 45 are also provided in the other top forming end section 31. Each of the intermediate top forming sections 32 on one edge are provided with openings and on the other edge are provided with projecting pins, the pins of one top forming section being receivable by the openings of an adjacent top forming section on the adjacent edge thereof. Thus, in the preferred construction the table top is anchored to the supporting legs, although the same may be anchored to the cross members if desired, but preferably the same is constructed as indicated.

Reference will now be had to Figs. 16 and 17. A strap member is secured to the top of the table leg 30 by means of the screws 46 and to the sides thereof by means of the screws 47. Thus it will be seen that the strap comprises a rectangular portion 48 and a depending side portion 49. The side portion of the leg 30 is suitably cut away at 50 to provide a socket substantially similar to the socket 36, and the strap portions 49 are provided with a pair of aligned slots 51 provided with the enlargements 52 therein. Each aligned slot 51 and enlargement 52 registers with the cut away portion or socket portion 50 of the leg. Thus, it will be seen that the socket means may be suitably secured to the leg and may be positioned flush therewith by said leg being suitably cut away to receive the same.

The cross members 33, as shown clearly in Figs. 2, 23 and 25, and the pin means associated therewith is clearly illustrated in Fig. 2. A U-shaped strap 53 is suitably secured by a plurality of screws 54 to the upper and lower edges of said transverse side bar 33, and the intermediate portion of said

U-shaped strap forms an end bearing surface from which projects the headed pins 55, said pins being in spaced relation with each other and placed in such relation that the same are receivable by the slots 51, so as to lock said legs together, as shown clearly in the before mentioned figures.

In Figs. 8 to 15 inclusive the two types of end pieces 34 are illustrated in detail. Figs. 8 to 11 illustrate clearly the tongued end piece while Figs. 12 to 15 illustrate the grooved end piece so that said tongued and grooved end pieces may cooperate with each other to form a completed longitudinal side bar. In both of said end pieces it will be noted that one end of each is provided with the U-shaped strap 53 which supports a plurality, and preferably a pair of headed locking pins 55, said locking pins being receivable by the socket plate 49 on the table leg 30, as clearly shown in Figs. 1 and 2. Each of the end plates is provided with a base portion 56 and extending from said base portion is an overlapping portion 57. In Figs. 8 to 11 inclusive it will be noted that the overlapping portion 57 is provided with a medianly positioned tongue 58, while the end piece shown in Figs. 12 to 15 inclusive is provided with a medianly positioned groove 59, which groove is of sufficient width and sufficient depth to accommodate the medianly positioned tongue 58. The transverse face between the body portion 56 of the end piece and the overlapping extension 57 is provided with a pair of projecting pins 60 in spaced relation with said tongue or groove means. Similarly the transverse face of the overlapping end 57 is provided with a pair of similarly spaced holes 61. It will thus be noted that the end pieces shown in Figs. 8 to 15 inclusive may be positioned together, if desired, since the length of the overlapping members 57 are substantially equal so that the holes 61 of each end piece are adapted to receive the pins 60 of the other end piece, while the tongue of one end piece is receivable by the groove of the other. While it has been found in practice that the aforesaid interlocking means is sufficient to hold the end members together, additional means is provided for securing said members together to form a rigid construction, and said additional means consists of the bolts 62 and the wing nuts 63; washers also may be provided if desired, but the same are not necessary. Medianly of the length of the extension 57 and centrally of the width thereof is provided a hole 64 see Figs. 8, 9, 12 and 13. Thus, the holes 64 are adapted to register with each other, such as the bolt 62 may be inserted through the same in the manner shown in Fig. 2, and clamp the same together by means of the wing nut 63.

Reference will now be had to Figs. 5 to 7

inclusive wherein the intermediate extension member on the side bar is illustrated in detail. In said figures, 65 constitutes a central body portion of the same cross section as the body portion 56 of the end pieces. An overlapping projecting portion 66 of substantially the same width as the central body portion 65 and of half the depth thereof extends from each end of said body portion and oppositely positioned upon each end. One of the extensions 66 is provided with a groove 67, while the other extension 66 is provided with the tongue 68. Each tongue and groove means are of substantially the same dimensions as the tongue and groove means 58 and 59 hereinbefore described. Each of the ends of the projections or extensions 66 are provided with a plurality, and preferably a pair of spaced openings 69 substantially similar to the opening 61 hereinbefore described. There projects from each of the ends of the body portion 65 adjacent the projecting portion 66 a plurality of pins, and preferably a pair of pins 75 substantially similar to the pins 60 hereinbefore described. As shown clearly in Figs. 22 and 23, each of the extensions 66 is provided with a transverse hole substantially similar to the hole 64. Thus, an intermediate extension member designated by the numeral 35 in Fig. 2 is adapted to be associated with each of the end members 34 in said figures which are illustrated in detail in Figs. 8 to 15 inclusive or may be associated with other similar extension members 35. The length of the members hereinbefore described is such that the body portion 65 is substantially equal to one third of the total length of the intermediate side bar illustrated in Fig. 5 and each of the extensions 66 are also equal to one third of the total length and each extension 66 is of the same length as the extension 67 shown in Figs. 9 and 13. As a detail of construction it may be here noted that the intermediate member 35, shown clearly in Figs. 5 to 7 inclusive, may be composed of two equal members having a half of their surface overlapping, one being provided with the tongue 68 and the other with the groove 67. Thus, in production the material may be respectively tongued and grooved and each end of the tongue and groove portions may be provided with the openings 69. In the openings of one of each of the ends of the sections thus formed, the pins 70 are positioned. Thus, it will be noted that the intermediate members 35 may be very easily formed and secured together in the manner indicated to insure low cost of production. As shown clearly in Fig. 1, each of the end sections 31 of the top forming leaves is of sufficient width to terminate adjacent the junction of the projecting portion 57 with the main body portion 56, and it will also be noted that the in-

intermediate leaf sections 32 are of substantially the same width as the length of the projections 66 and naturally of the body portion 65 so that the insertion of one of the intermediate side forming sections 35 requires the addition of two leaf sections 32.

Reference will now be had to Figs. 20 to 23 inclusive. In this modification of the invention the table has been so elongated that it may be desirable to provide intermediate legs 130. The intermediate legs 130 are provided with a T-shaped strap 148 which is suitably secured to the leg 130 and preferably lies flush with the top thereof. Depending from the T-shaped portion is a strap forming portion 149 upon three sides of the leg 130 and each strap is provided with a plurality of spaced and aligned slots 151 with the enlargements 152 therein. As shown clearly in Fig. 23, two pair of similar end sections are thus required to complete the longitudinal side bars of the table and another transverse side bar 33 is also required.

In Figs. 18, 19, 24 and 25 another form of the invention is illustrated and this form also reenforces the extended table in the middle thereof, but said invention does not necessitate the additional use of two pairs of end sections 34. The median leg 230 is provided with a strap portion 248 which extends downwardly at 249 upon opposite sides of the same leg and is provided with the usual slots 251 and with enlargements 252. A cross member 233 substantially similar to the cross member 33, but of less length as shown, is utilized and one of the intermediate members 35, such as 235 herein illustrated is provided with a socket substantially similar to the socket illustrated in Figs. 17, 19 and 21, but upon opposite sides of said intermediate members. Fig. 1 shows such an intermediate member by the dotted lines.

Suitable means is provided with the end sections 31 and one of the cross members 33, whereby the last end section 31 is locked in position upon the table construction thereby serving to lock all of the leaf sections in assembled relation to form a table top. Such means is illustrated in Fig. 26 and comprises an opening 100 in the last end section 31 and a bolt or pin 101 in the adjacent cross member 33 which is provided with a finger engageable portion 102 slidably supported in a base 103 provided with a travel limiting slot 104. An aligned opening 105 which receives the bolt 101 is also a portion of the plate 103.

Various modifications of the aforesaid table construction may be made without departing from the broader features thereof and it will be noted that without exception all of the interlocking features may be cheaply and quickly constructed and most

of said parts may be formed by suitable machines as will be readily understood by those skilled in the art.

The foregoing specifications and drawings are to be considered as illustrative and not restrictive in character.

The invention claimed is:

1. A knock down extension table comprising detachable legs, detachable top forming leaves, detachable transverse side forming means, complementary means on said top forming leaves for securing the same together, detachable and sectional longitudinal side forming means for bracing said legs and supporting said leaves, and means for locking all of said parts when in assembled relation.

2. A knock down extension table including four detachable and separable corner legs, detachable top forming leaves, complementary engaging members on said legs and said top for securing the same together, detachable transverse side forming means, other complementary engaging members on said legs and said side forming means for securing the same together, detachable longitudinal and sectional side forming means, and a third set of complementary members on said legs and said longitudinal side forming means for securing the same together.

3. A knock down extension table including four detachable and separable corner legs, detachable top forming leaves, complementary engaging members on said legs and said top for securing the same together, detachable transverse side forming means, other complementary engaging members on said legs and said side forming means for securing the same together, detachable longitudinal and sectional side forming means, a third set of complementary members on said legs and said longitudinal side forming means for securing the same together, and means for locking all of said parts when and in assembled relation.

4. In a knock down table, a plurality of side forming members, a detachable table leg, a metallic strap upon the top of said leg and extending downwardly upon the sides thereof, a detachable table top forming member, a strap plate upon said table top forming member, said leg and top and said table top strap having an interlocking connection therewith, and a metal strap on the end of said side forming members, said straps having a plurality of interlocking portions in spaced relation for securing said side forming members to said legs.

5. In a knock down table, the combination with an extension top and detachable legs of a sectionalized top supporting side construction of uniform cross section, including a pair of similar and complementary members, each having an end portion for detachable association with a leg, and an inter-

locking portion of reduced cross section, said reduced interlocking portions when overlapped forming a complete side construction of uniform cross section throughout the same.

6. In a knock down table, the combination with an extension top and detachable legs, of a sectionalized top supporting side construction of uniform cross section, including a pair of similar and complementary members, each having an end portion for detachable association with a leg, an interlocking portion of reduced cross section, said reduced interlocking portions when overlapped forming a complete side construction of uniform cross section throughout the same, and tongue and groove means extending longitudinally of the overlapping portion of said portions for preventing transverse movement therebetween.

7. In a knock down table, the combination with an extension top and detachable legs, of a sectionalized top supporting side construction, including a pair of similar and complementary members, each having an end portion for detachable association with a leg, a reduced interlocking portion, said reduced interlocking portion when overlapped forming a complete side construction, and complementary dowel and dowel socket means upon the other ends of said side forming members.

8. In a knock down table, the combination with an extension top and detachable legs, of a sectionalized top supporting side construction, including a pair of similar and complementary members, each having an end portion for detachable association with a leg, a reduced interlocking portion, said reduced interlocking portion when overlapped forming a complete side construction, tongue and groove means extending longitudinally of the overlapping portion of said portions for preventing transverse movement therebetween, and complementary dowel and dowel socket means upon the other ends of said side forming members.

9. In a knock down table, the combination with an extension top and detachable legs, of a sectionalized top supporting side construction, including a pair of similar and complementary members, each having an end portion for detachable association with a pair of legs, a reduced interlocking portion, said reduced interlocking portion when overlapped forming a complete side construction, each of said reduced overlapping portions having a hole therein, said holes registering with each other when said overlapping portions are in overlapped relation, and means positionable in both registering holes and adapted to secure the side forming members together.

10. In a knock down table, the combination with an extension top and detachable

legs, of a sectionalized top supporting side construction, including a pair of similar and complementary members, each having an end portion for detachable association with a pair of legs, a reduced interlocking portion, said reduced interlocking portion when overlapped forming a complete side construction, tongue and groove means extending longitudinally of the overlapping portion of said portions for preventing transverse movement therebetween, each of said reduced overlapping portions having a hole therein, said holes registering with each other when said overlapping portions are in overlapped relation, and means positionable in both registering holes and adapted to secure the side forming members together.

11. In a knock down table, the combination with an extension top and detachable legs, of a sectionalized top supporting side construction, including a pair of similar and complementary members, each having an end portion for detachable association with a pair of legs, a reduced interlocking portion, said reduced interlocking portion when overlapped forming a complete side construction, complementary dowel and dowel socket means upon the other ends of said side forming members, each of said reduced overlapping portions having a hole therein, said holes registering with each other when said overlapping portions are in overlapped relation, and means positionable in both registering holes and adapted to secure the side forming members together.

12. In a knock down table, the combination with an extension top and detachable legs, of a sectionalized top supporting side construction, including a pair of similar and complementary members, each having an end portion for detachable association with a pair of legs, a reduced interlocking portion, said reduced interlocking portion when overlapped forming a complete side construction, tongue and groove means extending longitudinally of the overlapping portion of said portions for preventing transverse movement therebetween, complementary dowel and dowel socket means upon the other ends of said side forming members, each of said reduced overlapping portions having a hole therein, said holes registering with each other when said overlapping portions are in overlapped relation, and means positionable in both registering holes and adapted to secure the side forming members together.

13. An extension bar for a knock down table construction including a body portion with reduced elongated ends, each end being oppositely positioned for overlapping purposes, each of said overlapping reduced portions having a transversely extending opening therein positioned midway between the ends of the reduced portion, whereby said holes when in overlapping position are

adapted to register for securing a pair of said bars together, each of transverse faces of said ends and said body portion being provided with a dowel socket, and dowel means associated with certain of said sockets and adapted to connect the bar by means of other sockets in adjacent bars.

14. An extension bar for a knock down table construction including a body portion with reduced elongated ends, each end being oppositely positioned for overlapping purposes, groove means in one of said reduced portions, and tongue means in the other of said reduced portions, said tongue and groove means cooperating with other tongue and groove means in adjacent bars when in assembled relation, each of said ends being provided with a plurality of dowel sockets, and dowel means associated with certain of said sockets and adapted to connect the bar by means of other sockets in adjacent bars.

15. An extension bar for a knock down ta-

ble construction including a body portion with reduced elongated ends, each end being oppositely positioned for overlapping purposes, each of said overlapping reduced portions having a transversely extending opening therein positioned midway between the ends of the reduced portion, whereby said holes when in overlapping position are adapted to register for securing a pair of said bars together, groove means in one of said reduced portions, tongue means in the other of said reduced portions, said tongue and groove means cooperating with other tongue and groove means in adjacent bars when in assembled relation, each of said ends being provided with a plurality of dowel sockets, and dowel means associated with certain of said sockets and adapted to connect the bar by means of other sockets in adjacent bars.

In witness whereof, I have hereunto affixed my signature.

JAMES D. ADAMS.