

P. DUUS.
 PICTURE FRAME FORM.
 APPLICATION FILED NOV. 18, 1910.

1,000,725.

Patented Aug. 15, 1911.

2 SHEETS—SHEET 1.

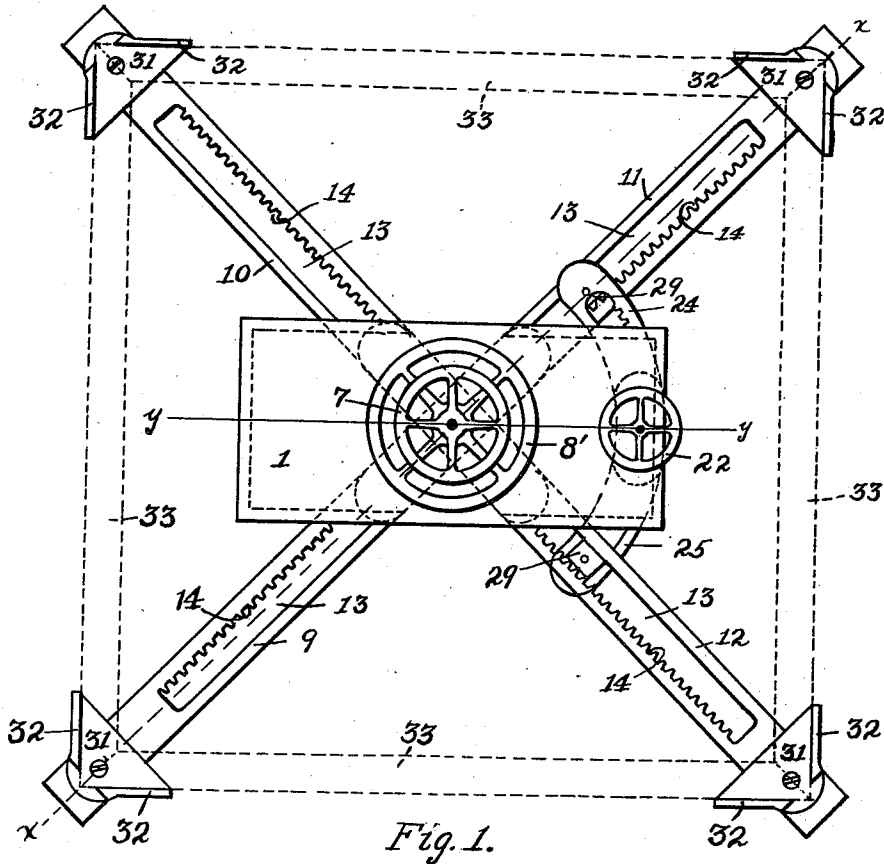


Fig. 1.

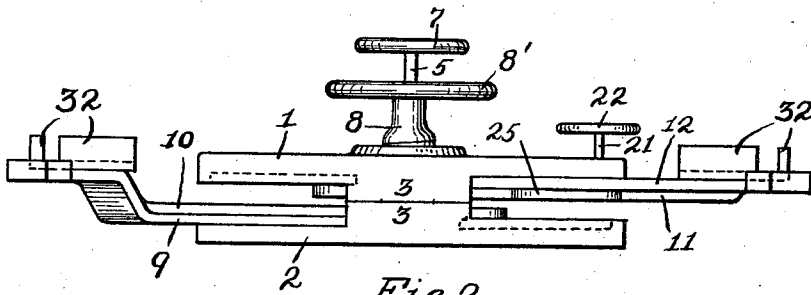


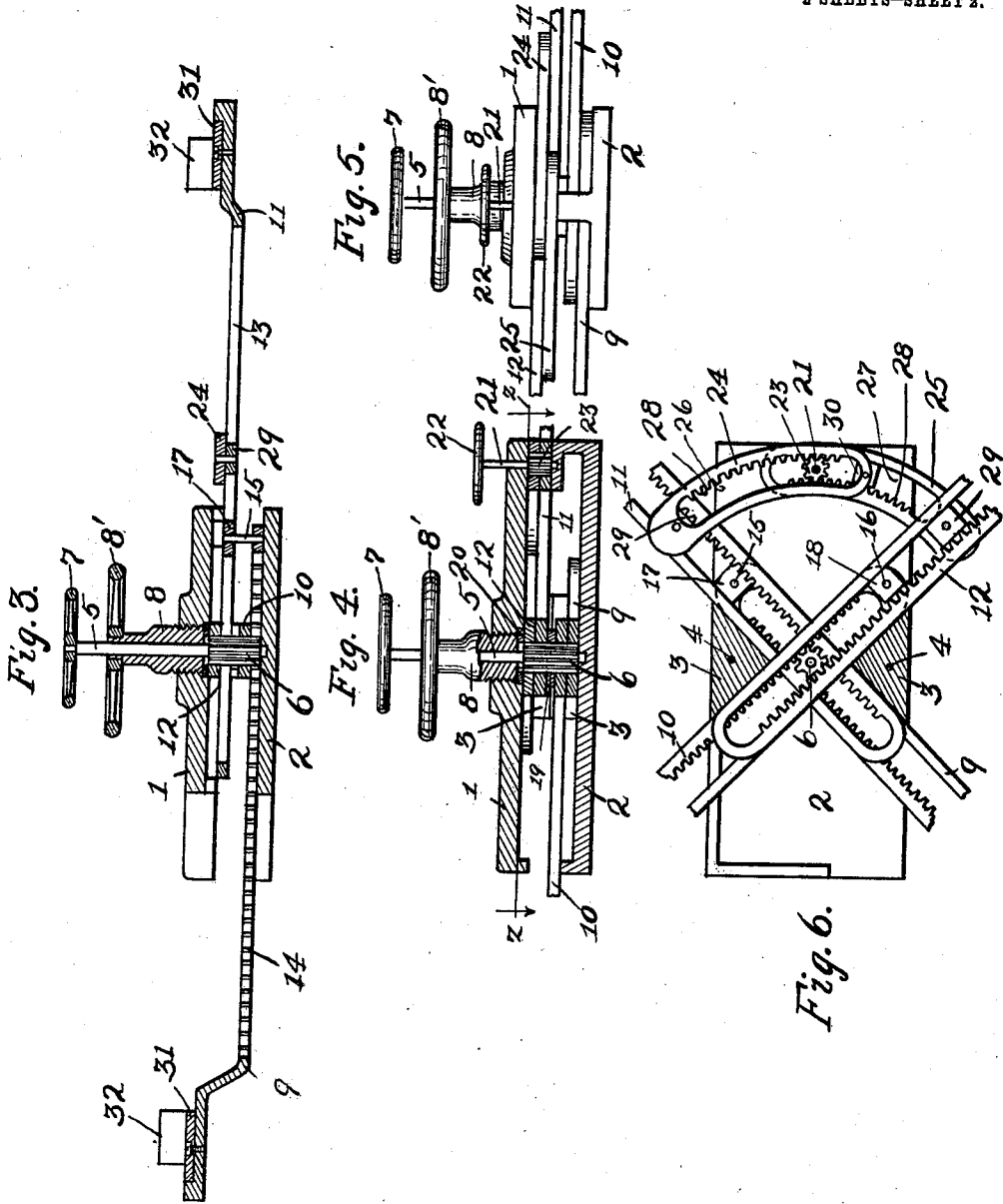
Fig. 2.

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UNITED STATES PATENT OFFICE.

PETER DUUS, OF CHICAGO, ILLINOIS.

PICTURE-FRAME FORM.

1,000,725.

Specification of Letters Patent. Patented Aug. 15, 1911.

Application filed November 16, 1910. Serial No. 592,655.

To all whom it may concern:

Be it known that I, PETER DUUS, a citizen of the United States, and a resident of the city of Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Picture-Frame Forms, of which the following is a specification.

My invention relates to improvements in picture frame forms and has for its object the provision of such a form which shall be simple in construction and efficient in operation.

The invention consists in the combination and arrangements of parts hereinafter described and claimed.

My invention will be best understood by reference to the accompanying drawings forming a part of this specification, and in which—

Figure 1 is a top plan view of a form embodying my invention, Fig. 2, an elevation of the form shown in Fig. 1, Fig. 3, a section taken on line $x-x$ of Fig. 1, Fig. 4, a section taken on line $y-y$ of Fig. 1, Fig. 5, a partial elevation of the device taken at right angles to Fig. 4, and Fig. 6, a section taken on line $z-z$ of Fig. 4.

The preferred form of construction as illustrated in the drawings comprises a central body composed of upper and lower plates 1 and 2 respectively, each provided with projections 3 at its sides meeting the corresponding projection 3 on the other, and secured together by screws 4 as shown. A clamping shaft 5 carrying an elongated gear 6 is rotatably mounted centrally in plates 1 with gear 6 positioned between said plates as shown. A hand wheel 7 is provided at the upper end of shaft 5 for manipulation of the same. A hollow clamping sleeve 8 is placed over shaft 5, threaded in plate 1 and provided with a hand wheel 8' as shown. Four arms 9, 10, 11 and 12, each provided with a central longitudinal slot 13 and a rack 14 on one side of said slot, are mounted between plates 1 and 2 with gear 6 passing through said slots and engaging said racks as shown. These arms are arranged in diametrically alining pairs with the rack in one of the members of each pair arranged on the side of slot 13 opposite to that of the other. At their inner ends each of the arms 9 and 10 carries an upwardly extending shaft 15 and 16 respectively carrying blocks

17 and 18 respectively, slidable in the slot 13 of the arms 11 and 12 respectively, said block and shaft serving as a means for maintaining the paired arms in diametric alinement with each other during radial or angular adjustments thereof. A washer 19 is arranged between arms 10 and 11 and a friction washer 20 is arranged between the end of sleeve 8 and the upper side of arm 12 as shown. By this arrangement it will be observed that upon turning gear 6 in one direction or the other arms 9, 10, 11 and 12 will be adjusted radially to or from the axis of said gear, and that said arms may be readily clamped in adjusted position by means of clamping sleeve 8. A second adjusting shaft 21 provided at its upper end with a hand wheel 22 and at its lower end with a gear 23 is rotatably mounted in plates 1 and 2 as shown. Segmental adjusting members 24 and 25, provided with central longitudinal slots 26 and 27 and racks 28 on opposite sides of said slots, are slidably mounted between plates 1 and 2 with gear 23 engaging said slots and racks as shown. At their outer ends each of the arms 24 and 25 carries a pivoted block 29 engaging slot 13 in the corresponding arms 11 and 12 as shown. Member 24 carries a pivoted block 30 engaging the slot 27 in member 25 and serving to hold members 24 and 25 in arcual alinement during adjustment thereof. By this arrangement it will be observed that the pairs of arms may be adjusted to different angular positions by manipulation of hand wheel 22.

Arm 12 is substantially straight but each of the arms 9, 10 and 11 are upwardly bent at their outer ends to bring said ends in the same plane with the end of arm 12 as indicated. At its outer end each of said arms is provided with a guide or positioning plate 31 pivoted thereto and provided with upwardly extending positioning flanges 32 arranged at right angles to each other with an opening or passage between their outer ends as shown.

In use the form is adjusted to a proper size and shape of picture frame to be formed and the picture frame sides or moldings having been previously cut at their ends to form a miter joint, are inserted in said form within positioning flanges 32 with their corner ends projecting through the space between said flanges as indicated by dotted

lines in Fig. 1. Then nails are driven through the protruding corners of moldings 33 and the frame secured in proper shape.

While I have illustrated and described the preferred construction for carrying my invention into effect this is capable of variation or modification without departing from the spirit of the invention. I therefore do not wish to be limited to the exact details of construction set forth but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

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

1. A device of the class described comprising a body; four radiating arms pivotally and slidably mounted in said body; means for radially adjusting said arms; two segmental adjusting members slidably connected with adjacent arms and provided with central slots having racks on one of their sides; an adjusting shaft in said body carrying an elongated gear passing through the slots in said adjusting members and engaging the racks therein; and positioning members on the outer ends of said arms, substantially as described.

2. A device of the class described comprising a central body; an adjusting shaft rotatably mounted at the center of said body, an elongated gear fixed to said shaft in the center of said body; for radiating arms slidably mounted in said body in different planes, said arms being arranged in diametrically alining pairs and each arm being provided with a central longitudinal slot having a rack on one side arranged oppositely to the rack in the slot of the other of the pair, the said slot embracing said elongated gear with the racks in mesh therewith; a clamping sleeve telescoping said shaft and threaded in said body to serve as a clamp for said arms; and positioning

members pivotally mounted on the outer ends of said arms in the same plane, each of said members being provided with upwardly extending positioning flanges at right angles to each other, a space being provided between the outer ends of said flanges substantially as described.

3. A device of the class described comprising a central body; an adjusting shaft rotatably mounted at the center of said body; an elongated gear fixed to said shaft in the center of said body; four radiating arms slidably mounted in said body in different planes, said arms being arranged in diametrically alining pairs and each arm being provided with a central longitudinal slot having a rack on one side arranged oppositely to the rack in the slot of the other of the pair, the said slot embracing said elongated gear with the racks in mesh therewith; a clamping sleeve telescoping said shaft and threaded in said body to serve as a clamp for said arms; two segmental adjusting members slidably connected with adjacent of said arms and provided with central slots having racks on opposite sides; an adjusting shaft in said body carrying an elongated gear passing through the slots in said adjusting members and engaging the racks therein; and positioning members pivotally mounted on the outer end of said arms in the same plane, each of said members being provided with upwardly extending positioning flanges at right angles to each other, a space being provided between the outer ends of said flanges, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

PETER DUUS.

Witnesses:

W. C. SMITH,
JOSHUA R. H. POTTS.