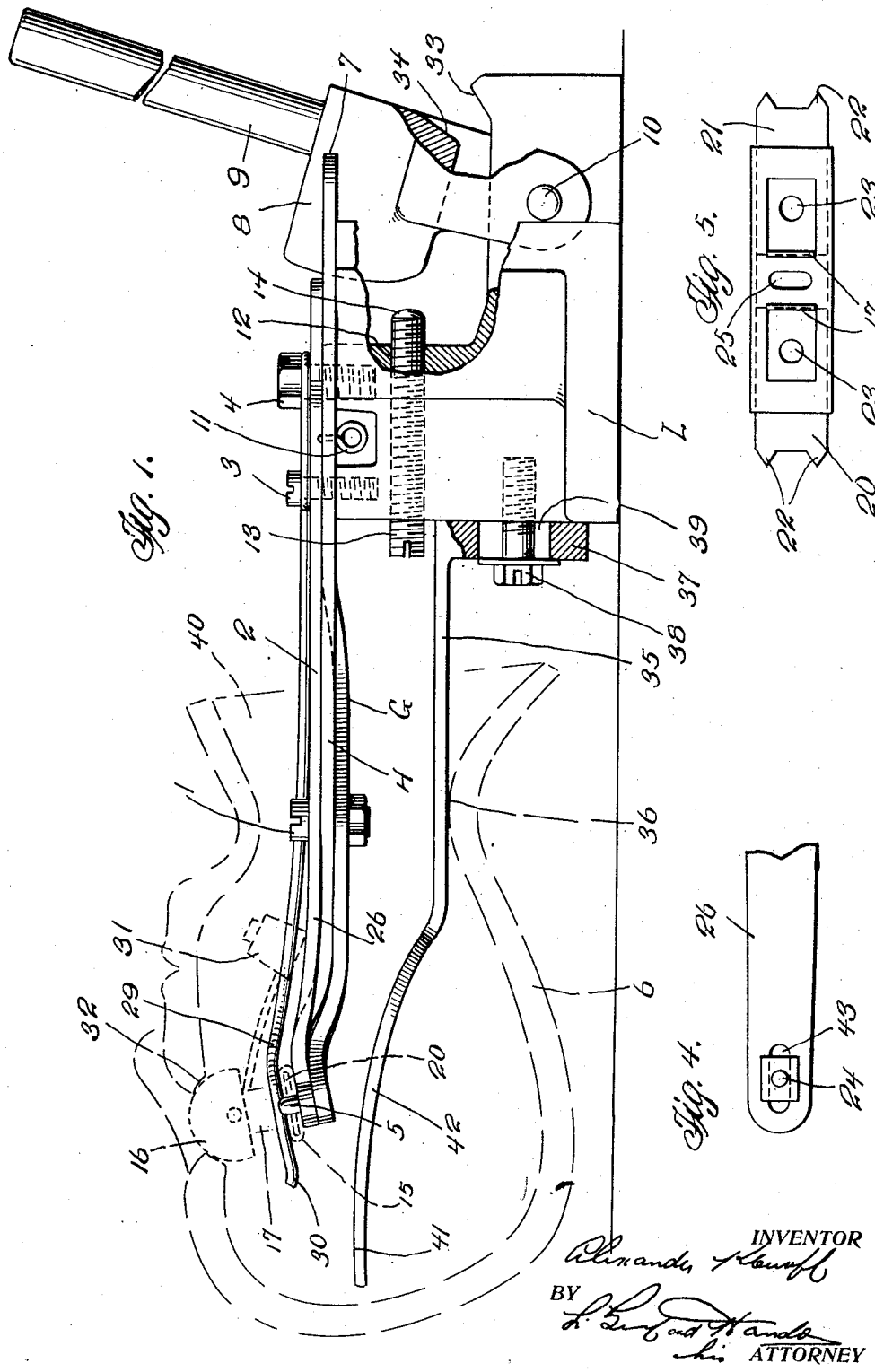
March 15, 1932. A. KONOFF 1,849,352

TOOL FOR ATTACHING EYE SETS

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March 15, 1932. A. KONOFF 1,849,352

TOOL FOR ATTACHING EYE SETS

Original Filed Oct. 25, 1926 2 Sheets-Sheet 2

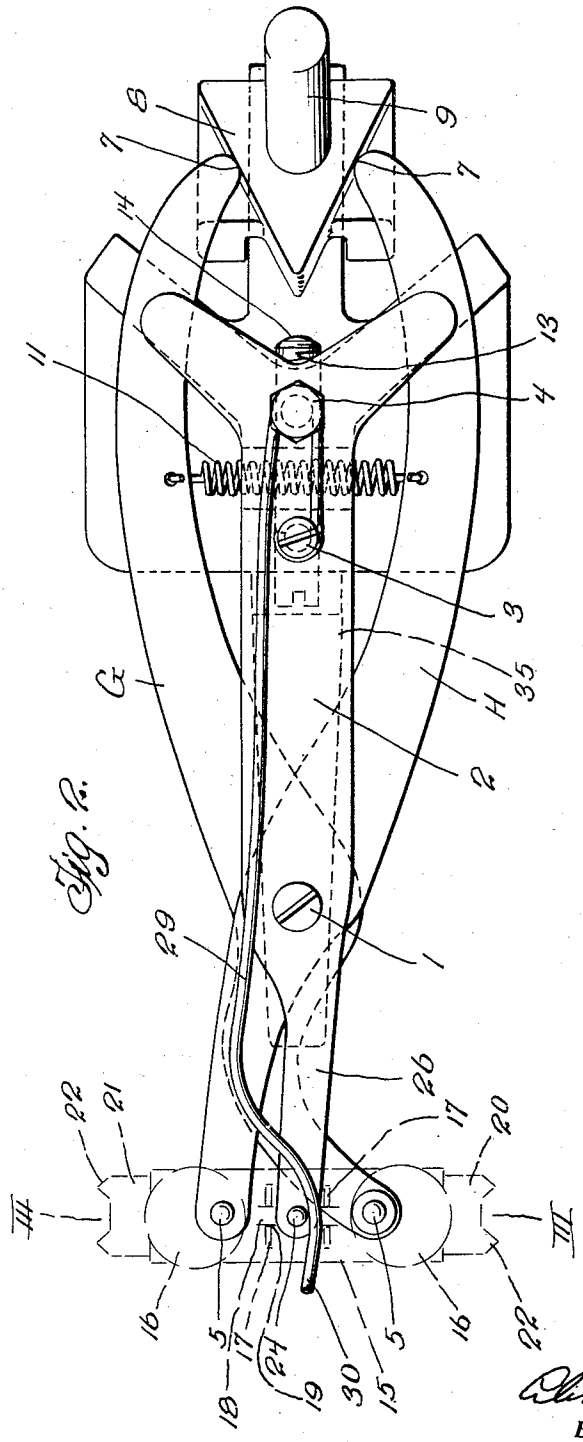


Fig. 2.

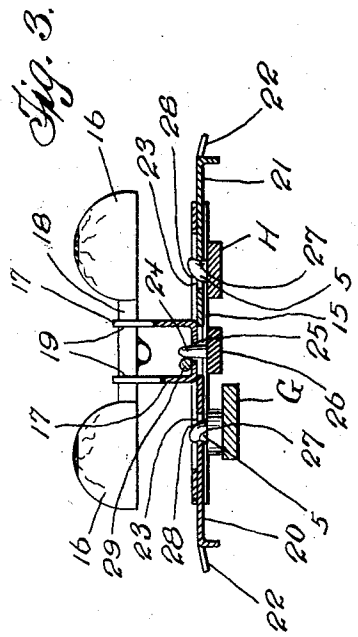


Fig. 3.

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UNITED STATES PATENT OFFICE

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TOOL FOR ATTACHING EYE SETS

Application filed October 25, 1926, Serial No. 144,068. Renewed April 17, 1930.

This invention relates to a tool for attaching eye sets in doll heads or the like, the same being in the nature of an improvement upon the tool shown and described in my pending application Serial No. 102,146, now issued as Patent No. 1,621,073, dated March 15, 1927.

An object of the present invention is to provide a tool by means of which the eye sets may be more quickly, accurately and efficiently attached within the doll head.

A more detailed object is to provide improved means for holding the eye set releasably connected with the tool.

A further detailed object is to provide means for co-operating with parts of the eye set to insure centralization of the eye set within the doll head.

A further detailed object is to provide suitable adjustable means by which to determine the extent of movement of the movable parts of the tool.

A further detailed object is to provide an adjustable guide part by which to insure uniform positioning of the eye sets within succeeding doll heads.

Other objects and aims of the invention, more or less specific than those referred to above, will be in part obvious and in part pointed out in the course of the following description of the elements, combinations, arrangements of parts and applications of principles constituting the invention; and the scope of protection contemplated will be indicated in the appended claims.

In the accompanying drawings which are to be taken as a part of this specification, and in which I have shown merely a preferred form of embodiment of the invention:

Fig. 1 is a side elevational view of a tool constructed in accordance with this invention, an eye set being shown by dotted lines in position thereon and a doll head being also shown by dotted lines in position to receive the eye set.

Fig. 2 is a top plan view of the tool seen in Fig. 1, the eye set being here again shown by dotted lines in position upon the tool.

Fig. 3 is a transverse vertical sectional view taken substantially upon the plane of line III—III of Fig. 2, the eye set being in this instance shown in full lines.

Fig. 4 is an enlarged fragmentary plan view of a part of the tool for engaging the eye set, and

Fig. 5 is a top plan view of a part of the eye set.

Referring to the drawings for a description in detail of the exemplary structure illustrated therein, the reference character L indicates a suitable standard or base member upon which is mounted a pair of levers G and H. These levers are pivotally connected together as by a pivot bolt 1 which is carried by an extension plate 2 from the base L, said extension plate being connected with the base L in any suitable manner as for instance by screws or the like as 3 and 4.

The levers G and H project beyond the pivot 1 and at their forward ends each is provided with an upstanding stud 5 thereon adapted to engage moving parts of the eye set to move said parts in a manner which will be described.

Between the pivot 1 and the outer ends of the levers said levers are preferably suitably bowed or bent so as to better enable introduction of the tool and attached eye sets into the neck portion of a doll head 6, as more fully referred to in the co-pending application above mentioned.

The rear ends of the levers are bowed outwardly and thence turned inwardly to provide end surfaces 7—7 arranged to rub against opposite sides of a wedge shaped cam 8. The cam 8 is formed upon a lever 9 which is pivotally mounted as at 10 upon the base L and adapted, upon swinging the lever, to be thrust forwardly between the ends 7—7 of the levers for forcing said ends apart. The levers are crossed at pivot 1 after the manner of an ordinary pair of tongs so that the spreading apart of the rear ends produces simultaneous spreading apart of the studs 5—5 at the forward ends.

A suitable tension spring as 11 is connected between the levers for holding the rear ends 7 always against the opposite surfaces of cam 8 and for thus moving the studs 5—5

toward each other whenever the cam is swung backwardly.

Carried by the base L, within a threaded bore 12 thereof is a screw 13 disposed so that its end 14 is adapted to be engaged by the cam 8 for limiting the forward movement of the cam at a point determined by the position of the screw, and hence for limiting the distance to which the studs 5—5 may be moved apart by the cam.

The eye set, which the tool thus far described is for handling, consists of a body portion 15 upon which the eyes 16—16 are movably supported. The body portion is intended to extend horizontally across the interior of the doll head, and intermediate its length is provided with a pair of arms 17 which project forwardly from the body portion and directly support the cross rod 18 at the opposite ends of which the eyes 16—16 are mounted. The arms 17 are provided with aligned bearings at 19 within which the cross rod is received.

The body portion or carrier 15 is of channel shape in cross section and within the channel thereof is arranged a pair of attaching members 20 and 21. These are longitudinally slidable along the channel and their outer end portions are formed with tangs 22—22 which, when the attaching members are slid outwardly, are thrust into the cheek portions of the doll head to thereby fasten the eye set within the doll head.

Before the application of the eye set into the doll head the attaching members are of course in their relatively inner positions, and their movement outwardly for driving the tangs into embedded relation within the cheek portions of the doll head is not performed until after the eye set has been moved into a proper and correct position within the doll head.

The fit of the attaching members within the channel of body 15 is sufficiently tight so that the attaching members will have no movement except by the application of considerable force, such as the present tool is designed to apply. For this purpose each of the attaching members is preferably formed with an aperture as 23 therein arranged to receive the studs 5—5 of the tool.

In order to insure that the spreading apart of the studs 5—5 of the tool, by means of cam 8, will produce a uniform amount of movement of each of the attaching members with respect to the body 15 the tool is provided with a third stud as 24 adapted to engage within an opening 25 of the body 15. This third stud is relatively stationary, being carried upon a forwardly projecting part as 26 of the plate 2 of the tool. In the instance illustrated it stands in a position intermediate the studs 5—5, and the opening 25 of the body is likewise provided intermediate the openings 23—23 so that the stud 24 is adapted to conveniently engage the body 15 at a point intermediate the inner ends of the attaching members and by its engagement serves to hold the body portion, and consequently the eyes 16—16, relatively stationary while the attaching members 20 and 21 are being forced outwardly by forward movement of the cam 8.

It should be mentioned here that if desired the tangs 22—22 of the attaching members may be slightly inclined with respect to the direction of movement of the attaching members so that the eye set will be automatically eased back with respect to the eye sockets of the doll head co-incident with movement of the tangs into the material of the doll head, as more fully set forth in my pending application Serial No. 105,678, now issued as Patent No. 1,619,824, dated March 8, 1927.

The forward ends of the tool levers, and of the central stud carrying part 26 are arranged on a common plane and thus constitute a suitable support platform upon which the body portion 15 may rest with the several studs projecting through their respective receiving openings.

The studs 5—5 are preferably slightly under-cut on their outer sides as at 27 to insure a better grip upon the attaching members 20 and 21 during the time while said attaching members are being forced outwardly, and said studs have their relatively inner faces rounded off as at 28—28 to permit easy and automatic discharge of the eye set from the tool when the cam 8 is moved backwardly and the studs are drawn toward each other by the action of spring 11.

In order to retain the eye set temporarily connected with the tool, particularly during the time while the eye set is being inserted relatively into the doll head, a resilient retaining member is provided. In the instance illustrated this retaining member consists of a length of spring wire as 29 extending along the length of plate 2 and connected at its rear end to the screws 3 and 4 so that its forward end is free to move as a spring clamp to hold the eye set yieldingly pressed against the platform provided by the stud carrying parts of the tool.

When placing an eye set in position upon the tool it is simply necessary to introduce the body 15 beneath the forward projecting end portion as 30 of the retaining member, and flex said member upwardly sufficiently to permit application of the body in position over the studs whereupon the retaining member will urge the body downwardly over the studs and to position against the platform. After the eye set has been attached within the doll head the movement of studs 5—5 toward each other, acting through the inclined or cammed surfaces 28—28 of the studs 5—5, will automatically lift the body 15, and with it now the doll head, so that all

of the studs will clear their respective openings and the eye set be thereby discharged, the retaining member being meanwhile forced upwardly to permit the discharge.

Of course the eye set may include the usual weight as 31 by which to cause oscillation of the eyes in the usual manner after their attachment into the doll head, and it may be here mentioned that the part 26 of plate 2 in the structure illustrated provides an appropriate support upon which the weight may rest, as clearly seen in Fig. 1 during the time while the eye set is being positioned within the doll head.

In operation, the tool being fastened firmly to a suitable foundation by any appropriate means, an eye set is placed upon the platform in the manner fully described and a doll head is moved over the eye set and tool to the position indicated in Fig. 1, namely with the eye members 16—16 of the eye set seated within the eye sockets as 32, and with the eye set thus positioned the lever 9 is swung forwardly to drive the retaining members firmly into the cheek portions of the head. By now releasing the lever 9 the spring 11 will draw the levers together and discharge the eye set from the lugs of the tool so that the head with the assembled eye set may be readily withdrawn from the tool.

It will be understood of course that if desired the tool may be inserted into the head instead of applying the head over the tool, but this is a matter immaterial.

It will be understood that eye sets of different sizes, for doll heads of different sizes, may be attached by this tool. The provision of the adjusting screw 13 for determining the extent to which the studs 5—5 may be thrust apart by the cam 8 makes it possible to utilize the same identical tool for different size doll heads and eye sets. If the doll heads being operated upon be relatively small, then the screw 13 will be adjusted to prevent a too great separation of the movable studs, whereas if the doll heads which are being operated upon be relatively larger then the screw 13 will be set back to permit a greater separation of the studs, the separation being in any event in proportion to the distance apart of the opposite side walls or cheek portions of the doll heads being operated upon.

A suitable stop as 33 is provided upon the base member L arranged to be engaged by a portion 34 of the lever to limit the outward movement of the lever at all times.

An adjustable guide member as 35 is provided upon the body L in positions spaced below the plate 2 adapted to be engaged by an inner surface part as 36 of the neck portion of the doll head. Engagement of the portion 36 with this guide member at the same time as the eye sockets 32 are in engagement with the eyes of the eye set will insure a correct position of the doll head at the time of driving home the attaching members, and this is of particular importance in the application of eye sets into a large number of doll heads in that it constitutes means whereby an unskilled operator may apply the eye sets with uniform accuracy in all of the doll heads.

The guide 35 has its base portion 37 resting against the forward face of base L. A clamp screw 38 projects through an enlarged opening 39 of the base 37 and engages within base L, the guide member being thus readily movable within desired limits and being adapted to be held in any adjustable position by the clamp screw 38.

In using the structure as thus far described it is intended that the tool shall be inserted relatively through the neck portion of the doll head, as illustrated in Fig. 1. In some instances however, where the top portion of the doll head is open, it is desirable to insert the tool through the open top of the head, the head in this case being simply reversed with respect to the illustration Fig. 1 so that the neck opening as 40 of the head faces to the left and away from the body L of the tool instead of to the right and toward the body L.

Since in applying the eye set into the doll head in this reverse manner the eye set must be supported by the tool also in a reverse position, that is with the eye set turned so that the weight 31 thereof extends away from the body L of the tool, it is a feature of the present improvement to provide means for accommodating this reversal of position of the eye set, and particularly for supporting the weight 31 when the eye set is thus reversed. To this end the drawings illustrate the guide member 35 to be so extended as that its outer end portion as 41 is disposed to constitute a rest upon which the weight may stand when the eye set is placed upon the tool in its mentioned reversed position.

When the tool is being inserted into the head in the position as shown in Fig. 1 the under-surface as 42 of the guide 35 serves as a protecting run-way or guide for engagement by the part 36 of the head to assist in the positioning of the head and preventing contact thereof with the levers and other parts of the tool.

This surface 42 may serve a similar purpose when the tool is being inserted relatively through the open top of the doll head if desired.

As the levers G and H are swung for moving the lugs 5—5 away from each other the lugs of course move in the arc of a circle about a centre in the pivot 1. This arcuate movement of the lugs causes a slight bodily movement of the eye set in a direction longitudinally of the tool and toward the body L of the tool, the extent of said movement being dependent upon the degree to which the lugs are moved apart. In small doll heads the movement is negligible but in larger heads it

may be quite pronounced, and on this account it has been found desirable to provide means to permit the bodily movement of the eye set longitudinally of the tool while at the same time preventing any bodily movement laterally of the tool. Various means may be devised for this purpose but as a simple expedient the drawing, Fig. 4, shows the central stud 24 of the tool to be carried within a short slot 43 provided extending longitudinally of the extension 26 of the tool, the stud being thus adapted to move to a suitable extent longitudinally of the tool but being held against any lateral movement. As the eye set moves longitudinally of the tool under the influence of the lugs 5 the lug 24 will merely slide along the slot 43 but will effectually prevent any movement of the eye set transversely of the tool.

In Fig. 5 a modified means is illustrated by which to accomplish the same result, the means in this instance being formed essentially upon the eye set rather than upon the tool. It consists merely in making the opening 25 of the eye set in the form of a slot placed so as to extend transversely of the body 15 and hence longitudinally of the length of the tool. The stud 24 may in this case be made stationary upon the part 26 of the tool, and any movement of the eye set in a direction longitudinally of the tool will be accommodated by relative movement of the stud 24 along the length of the slot 25, the side walls of the slot however at all times engaging the stud sufficiently snugly to prevent any appreciable movement of the eye set transversely of the tool.

As many changes could be made in this construction without departing from the scope of the invention as defined in the following claims, it is intended that all matter contained in the above description or shown in the accompanying drawings, shall be interpreted as illustrative only and not in a limiting sense.

It will be understood that the studs 5—5 serve not only as a means to operate the attaching members but as attaching members to hold the eye set connected with the tool.

Also that the three lugs 5—5 and 24 engage the eye set in substantially a common horizontal plane with the guide-way of the body 15 so that the strain for moving the members as 20 and 21 produces little or no tendency to bend any part of the eye set.

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

1. In a tool for attaching an eye set within a doll head, said eye set having a body portion and pair of attaching members spaced apart and slidable upon said body portion in directions away from each other, the tool comprising a holding part to engage the body portion at a point intermediate said attaching members for holding the body portion, and means arranged at points located at opposite sides of said mentioned holding part for engaging the attaching members respectively to meanwhile slide the attaching members.

2. In a tool for attaching an eye set within a doll head, said eye set having a body portion and relatively movable attaching members carried by the body portion, the tool having a part relatively stationary therewith arranged to engage the body portion to hold the body portion relatively immovably connected with the tool, and a pair of separately formed levers comprised in the tool having parts to engage the attaching members to move said attaching members with respect to the body portion, together with means to so move said levers.

3. In a tool for attaching an eye set within a doll head, said eye set having a body portion and relatively movable attaching members, a retaining member provided upon the tool to engage said body portion for retaining the body portion relatively stationary with the tool, a spring comprised in the tool arranged to engage the body portion for holding the body portion releasably connected with said retaining member, and parts also comprised in the tool to engage the attaching members for moving the attaching members relative to the body portion.

4. In a tool for attaching an eye set within a doll head, said eye set having a body portion and relatively movable attaching means, the body portion having an opening therein, the tool comprising a part for engaging within said opening to hold the body portion relatively stationary with the tool, and the tool also having parts on opposite sides of said mentioned part arranged for engaging the attaching members and being movable for moving said attaching members with respect to the body portion.

5. In a tool for attaching an eye set within a doll head, said eye set having a body portion shaped to provide a straight line guide-way therein and a pair of attaching members arranged in said guide-way slidable therealong in directions away from each other, the tool having a part for engaging the body portion in the plane of said guide-way to thereby hold the body portion against movement in a direction longitudinally of said guide-way, and a pair of members also comprised in the tool arranged for engaging said attaching members in the plane of said guide-way, together with means for operating said last mentioned members.

6. In a tool for attaching an eye set within a doll head, said eye set having a body portion and a pair of attaching members slidable upon said body portion, the tool comprising a plurality of parts arranged to collectively

provide a platform for supporting said body, one of said mentioned parts having a portion to engage the body portion for holding the body portion to the tool, and the others of said mentioned parts having portions adapted to engage the attaching members for moving the attaching members with respect to the body, together with means for operating the last mentioned parts.

7. In a tool for attaching an eye set within a doll head, said eye set having a body portion and a pair of attaching members slidable upon said body portion, the tool comprising a plurality of parts arranged to engage said body portion for supporting the eye set connected with the tool, certain of said mentioned parts providing a platform upon which the body portion of the eye set may rest, another of said parts comprising a resilient member for holding the body portion yieldingly against said platform, the parts comprising the platform having portions for engaging the attaching members to move the attaching members to attaching positions, and means whereby to discharge the body portion from said platform.

8. In a tool for attaching an eye set within a doll head, means for supporting the eye set and by which to position the eye set within the doll head, means to effect attachment of the eye set within the doll head, and means whereby to discharge the eye set from the tool.

9. In a tool for attaching an eye set within a doll head, means for supporting the eye set and by which to position the eye set within the doll head, means to effect attachment of the eye set within the doll head, and spring actuated means whereby to discharge the eye set from the tool.

10. In a tool for attaching an eye set within a doll head, means for supporting the eye set and by which to position the eye set within the doll head, means to effect attachment of the eye set within the doll head comprising a pair of members movable with respect to each other and means to so move said members, and said mentioned pair of members having portions for engaging the eye set to discharge the eye set from the tool.

11. In a tool for attaching an eye set within a doll head, means for supporting the eye set and by which to position the eye set within the doll head, means to effect attachment of the eye set within the doll head comprising a pair of members movable with respect to each other and means to so move said members, spring means tending to move said members in an opposite direction, and said members having portions for engaging the eye set to discharge the eye set from the tool when said spring means is permitted to move said members.

12. In a tool for detaching an eye set within a doll head, means for supporting the eye set and by which to position the eye set within the doll head, means to effect attachment of the eye set within the doll head comprising a pair of members movable with respect to each other, a cam movable with respect to said members for progressively moving said members in accordance with the extent of movement of said cam, a handle by which to move said cam, and readily adjustable means to alter at will the possible extent of movement of said cam.

13. In a tool for attaching an eye set within a doll head, a pair of members movable with respect to each other and adapted to engage parts of the eye set for effecting attachment of the eye set within the doll head, a body member upon which said relatively movable members are supported, a cam movable upon said body member and engaging said first mentioned movable members adapted for progressively moving said members in accordance with the extent of movement of said cam, and a screw threaded into said body member adjustable with respect thereto and having a portion arranged to be engaged by the cam, whereby to readily alter at will the possible extent of movement of said cam.

14. In a tool for attaching an eye set within a doll head, means for supporting the eye set including relatively movable parts by which to effect attachment of the eye set within the doll head, and a guide member arranged to be engaged by a part of the doll head for determining the position of the doll head with respect to the tool at the time of attachment of the eye set.

15. In a tool for attaching an eye set within a doll head, means for supporting the eye set including relatively movable parts by which to effect attachment of the eye set within the doll head, and a guide member arranged to be engaged by a part of the doll head for determining the position of the doll head with respect to the tool at the time of attachment of the eye set, together with means whereby to adjust said guide with respect to the eye set.

16. In a tool for attaching an eye set within a doll head, means for supporting the eye set including relatively movable parts by which to effect attachment of the eye set within the doll head, a guide member arranged to be engaged by a part of the doll head for determining the position of the doll head with respect to the tool at the time of attachment of the eye set, and said guide having a portion arranged to serve as a support for a part of the eye set.

17. In a tool for attaching an eye set within a doll head, means for supporting the eye set including relatively movable parts by which to effect attachment of the eye set within the doll head, the eye set comprising as a part thereof the usual weight for effecting movement of the eyes in the finished doll,

and the tool being insertable into the head through either the top or the neck portion of the head and providing parts to support said weight in either relative position of the head.

18. In a tool for attaching an eye set within a doll head, means for supporting the eye set including relatively movable parts by which to effect attachment of the eye set within the doll head, the eye set comprising as a part thereof the usual weight for effecting movement of the eyes in the finished doll, the tool being insertable into the head through the top or the neck portion of the head and providing parts to support said weight in either relative position of the head, and the part for supporting said weight in one position of the head constituting also a guide arranged to be engaged by the head for the purpose set forth.

19. In a tool for attaching an eye set within a doll head, means for supporting the eye set including relatively movable parts by which to effect attachment of the eye set within the doll head, the eye set comprising as a part thereof the usual weight for effecting movement of the eyes in the finished doll, the tool being insertable into the head through either the top or the neck portion of the head and providing parts to support said weight in either relative position of the head, and the part for supporting said weight in one position of the head constituting also a guide arranged to be engaged by the head for the purpose set forth, together with means whereby said last mentioned part may be readily adjusted to different positions with respect to the portion of the tool with which the eye set is connected.

20. In a tool for attaching an eye set within a doll head, supporting means for the eye set by which to support the eye set and by which to position the eye set within the doll head, a body member to which said supporting means is attached, a connecting member holding said supporting means connected with said body member, and a spring held in position by said connecting member having a portion extending into position adjacent said supporting means adapted to hold the eye set releasably in engagement with the supporting means.

21. In a tool for attaching an eye set within a doll head, means by which to support the eye set and by which the eye set may be positioned within the doll head, means for engaging the eye set to effect attachment of the eye set within the doll head requiring movement of the eye set in a direction longitudinally of the tool, and means for holding a part of the eye set connected with the tool constructed to prevent movement of said part of the eye set in a direction transversely of the tool while permitting movement of the eye set in a direction longitudinally of the tool.

22. In a tool for attaching an eye set within a doll head, means by which to support the eye set and by which the eye set may be positioned within the doll head, means for engaging the eye set to effect attachment of the eye set within the doll head requiring movement of the eye set in one horizontal direction, and means holding a part of the eye set connected with the tool permitting movement of the eye set in said mentioned direction but effective to prevent movement of said part of the eye set in another horizontal direction.

23. In a tool for attaching an eye set within a doll head, means for supporting the eye set and by which to position the eye set within the doll head, means movable in one direction to effect attachment of the eye set within the doll head and movable in the opposite direction to discharge the eye set from the tool.

24. In a tool for attaching an eye set within a doll head, means for supporting the eye set and by which to position the eye set within the doll head, means movable in one direction by manual pressure to effect attachment of the eye set within the doll head and automatically movable in the opposite direction to discharge the eye set from the tool upon release of the manual pressure.

25. In a tool for attaching an eye set within a doll head, means for supporting the eye set and by which to position the eye set within the doll head, means movable in one direction by manual pressure to effect attachment of the eye set within the doll head, and a spring associated with said means effective to discharge the eye set from the tool upon release of the manual pressure.

26. In a tool for attaching an eye set within a doll head, supporting means for supporting the eye set and by which the eye set may be inserted into position within the doll head through either the top or the neck opening of the doll head, the supporting means comprising parts to support the eye set in one position to thereby appropriately co-operate with the doll head structure when the supporting means is inserted through the neck opening, the supporting means comprising also another part co-operative with the first mentioned parts to support the eye set in a reversed position to thereby appropriately co-operate with the doll head structure when the supporting means is inserted through the top opening, and means for effecting attachment of the eye set within the doll head.

27. A tool for attaching an eye set within a doll head, where it is desired that the eye set may be carried upon the tool in either of two selected positions and where the eye set has parts to detachably mate with parts of the tool which engage it in each of said two positions, said tool comprising supporting means for engaging and supporting the eye set and by which the eye set may be inserted into position within a doll head, and said supporting means consisting of parts to mate

with the eye set and hold it in either of its two positions selectively at will.

28. A tool for attaching an eye set within a doll head, where it is desired that the eye set may be carried upon the tool in either of two selected positions, said tool comprising supporting means for engaging and supporting the eye set and by which the eye set may be inserted into position within a doll head, and said supporting means consisting of parts to engage the eye set and support it in either of its two positions selectively at will.

29. In a tool for attaching an eye set within a doll head, means for supporting the eye set and by which to position the eye set within the doll head, and movable mechanism to effect attachment of the eye set within the doll head, the said movable mechanism including means for attaching the eye set to the tool when said mechanism is moved in one direction and for releasing the eye set from the tool when said mechanism is moved in the opposite direction.

30. In a tool for attaching an eye set within a doll head, said eye set having a carrier section and having a pair of attaching members movable in opposite directions on said carrier section, the tool comprising means for supporting the eye set and by which to position the eye set within the doll head, and movable mechanism for operating upon said attaching members to effect attachment of the eye set within the doll head, the said movable mechanism including means for attaching the eye set to the tool when said mechanism is moved in one direction and for releasing the eye set from the tool when said mechanism is moved in the opposite direction.

31. In a tool for attaching an eye set within a doll head, means for supporting the eye set by which to position the eye set within the doll head, movable mechanism to effect attachment of the eye set within the doll head, means to effect attachment of the eye set to the tool when said movable mechanism is operated in one direction, and means to effect release of said eye set from the tool when said movable mechanism is operated in the opposite direction.

In testimony whereof I affix my signature.

ALEXANDER KONOFF.