Aug. 19, 1941. R. WILSON 2,253,259

DIE FOR X-RAY MOUNT PRESSES

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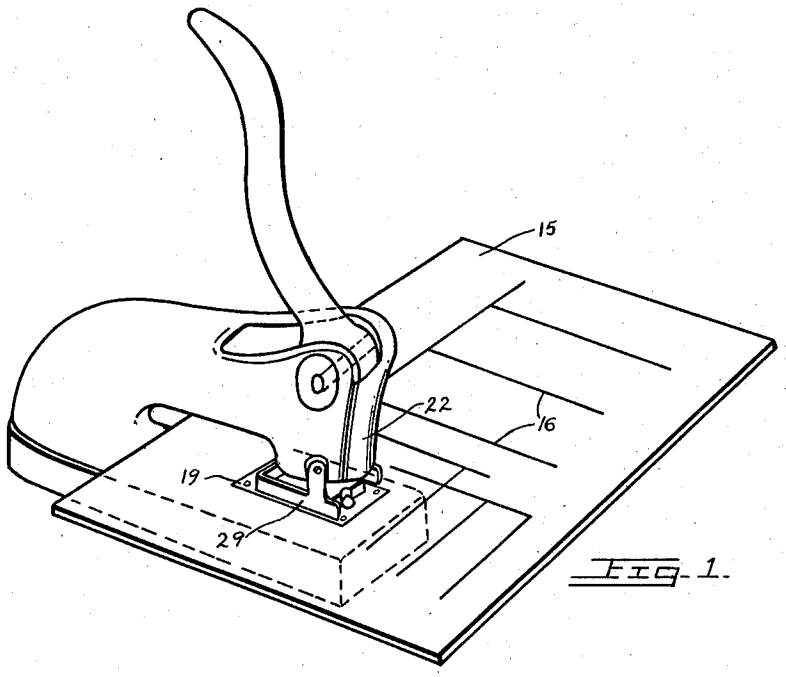


Fig. 1.

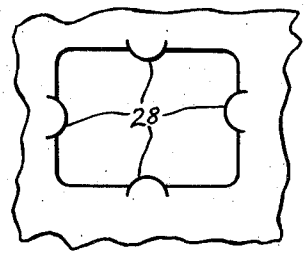


Fig. 5.

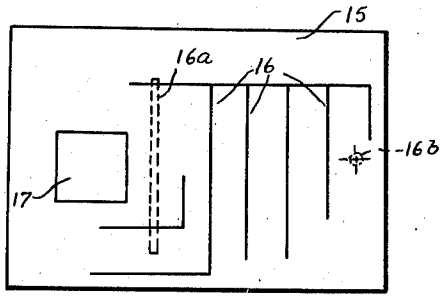


Fig. 2.

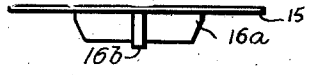


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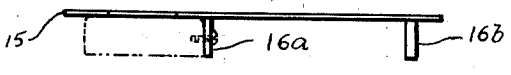


Fig. 3.

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DIE FOR X-RAY MOUNT PRESSES

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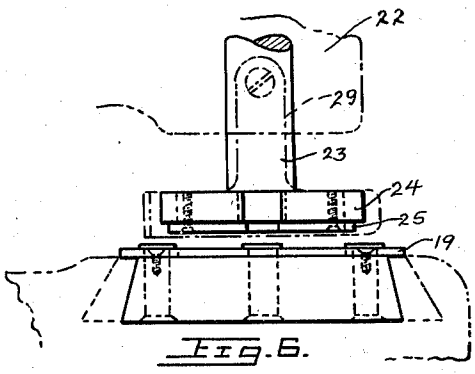


Fig. 6.

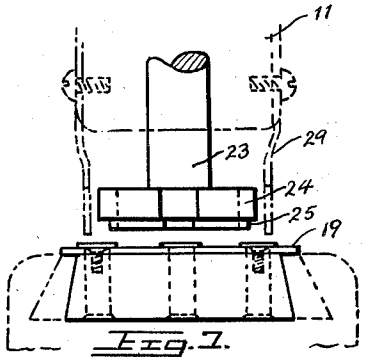


Fig. 7.

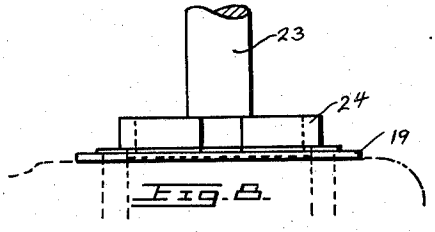


Fig. 8.

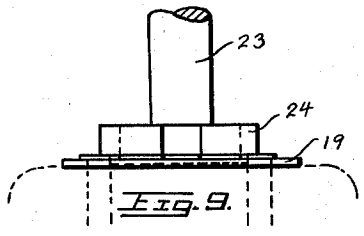


Fig. 9.

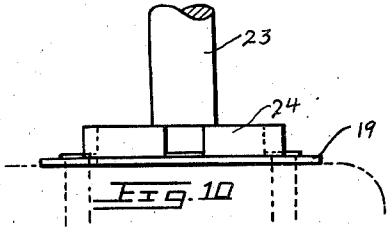


Fig. 10

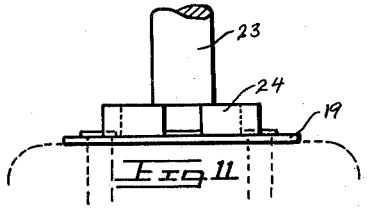


Fig. 11

Fig. 12

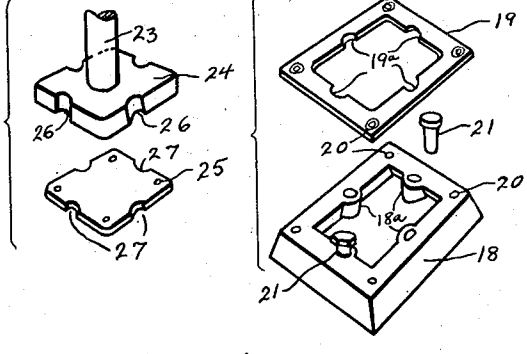


Fig 12a

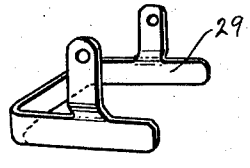


Fig. 13.

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UNITED STATES PATENT OFFICE

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DIE FOR X-RAY MOUNT PRESSES

Raymond Wilson, Ottawa, Ontario, Canada

Application December 1, 1939, Serial No. 307,174

1 Claim. (Cl. 164—19)

This invention relates to improvements in a die for an X-ray mount press for cutting out a desired shape of hole with mountable lugs to receive X-ray negatives or prints commonly used in the dental profession. The principal object resides in the provision of a simply constructed device of this nature which may readily be sharpened by anyone.

A further object of the invention is to provide a male and female die which is removable.

A still further object of the invention is to provide a die that permits locking lugs in one operation to receive a negative or print of the X-ray.

Another object of the invention is to provide a guide for the operator that is easy, understandable and which is adjustable to suit the operator's requirements.

Still another object of the invention is to provide a means which prevents the mount from sticking to the die proper after the operation has been effected.

A still further object is to permit any number of mounts to be cut as required, thus eliminating a large stock of mount material.

A still further object of the invention is to provide a die for X-ray mount press which is economical to construct, and performs the duties required in a manner which is more efficient than heretofore experienced.

With these and other objects in view which may be apparent as the description proceeds, it will be seen that my invention consists in the novel construction and arrangement of parts, as hereinafter more specifically set forth, claimed, and illustrated in the accompanying drawings, in which:

Figure 1 represents a perspective view of the invention fully assembled,

Figure 2 is a top plan view of the table showing the guide alignment or markings and the die receiving orifice therein.

Figure 3 is a side elevation of Figure 2,

Figure 4 is an end elevation of Figure 2,

Figure 5 is a top plan view of the hole and the mountable lugs that the die cuts in the Celluloid or cardboard,

Figure 6 is a detailed side elevation of the die assembled in the mount press,

Figure 7 is an end elevation of Figure 6,

Figure 8 is a side elevation of the die in the process of performing an operation,

Figure 9 is an end elevation of Figure 8,

Figure 10 is a side elevation in the die after performing the operation,

Figure 11 is a side elevation of Figure 10,

Figure 12 is a perspective view of the male die member with the parts in separate relation,

Figure 12*a* is a perspective view of the female die member with the parts in separate relation,

Figure 13 is a perspective view of the extractor.

With further reference to the drawings, it will be seen that my invention consists of a deep throated mount press **14** which permits more freedom to the operator in designing and arrangement of the required design of mounts. This feature is quite essential to suit the requirements of the individual dentist or operator. Within the throat of the said press **14** is located a table **15** having guiding means **16** thereon, and having a fastening means **16A** and a foot rest **16B** thereunder. Located approximately in the centre and near one end is a hole or orifice **17** as shown in Figure 2, which receives the tapered base die **18**, the inner edges of the said base die **18** having a prescribed number of projections **18A**, to which is attached a removable cutting plate **19** having prescribed indentations **19A** on the inner edge thereof, which is attached and held in position at four points **20** by suitable screws or fastening means **21**.

Disposed in the head of the press **22** is a slidable spindle **23** to which is attached at the bottom a base **24** to receive a removable cutting die **25** on the lower face thereof. The edge of the base member **24** having prescribed indentations **26**, likewise the edges of the cutting die **25** having prescribed indentations **27**. The combination of the said projections **18A** and indentations **19A**, **26** and **27** when cut by pressure on the press form corresponding projecting anchoring means **28** in the material that has been cut to receive a negative as shown in Figure 5. After the operation has been performed and the upper cutting dies **24** and **25** are brought back to normal position, the material being cut is automatically removed from the cutting dies by an extractor **29** which is fastened to the head **22** of the press.

It is believed that the construction and advantages of the structure shown will be apparent from the foregoing paragraphs taken in conjunction with the accompanying drawings without further detailed description.

While the preferred embodiment of the invention has been desclosed it is understood that minor changes in the details of construction and combination and arrangement of co-operating parts may be resorted to within the scope of

what is claimed without departing from the spirit of the invention.

I claim:

A die for punching X-ray film mounts to provide openings with film retainer tabs along their edges comprising a base having a central rectangular opening with semi-circular ribs projecting inwardly from the walls thereof intermediate their length, a male die head having its outer contour of corresponding shape to the opening of said base and adapted to enter said opening whereby an opening is punched in the mount with inwardly projecting tabs along its edges, and a female die plate mounted on said base having a central opening alined with the opening of said base, the edges of the opening of said female die plate having semi-circular indentations in juxtaposition to the ribs of said base whereby incisions are cut in the edges of the opening punched in the mount on both sides of the tabs.

RAYMOND WILSON.