

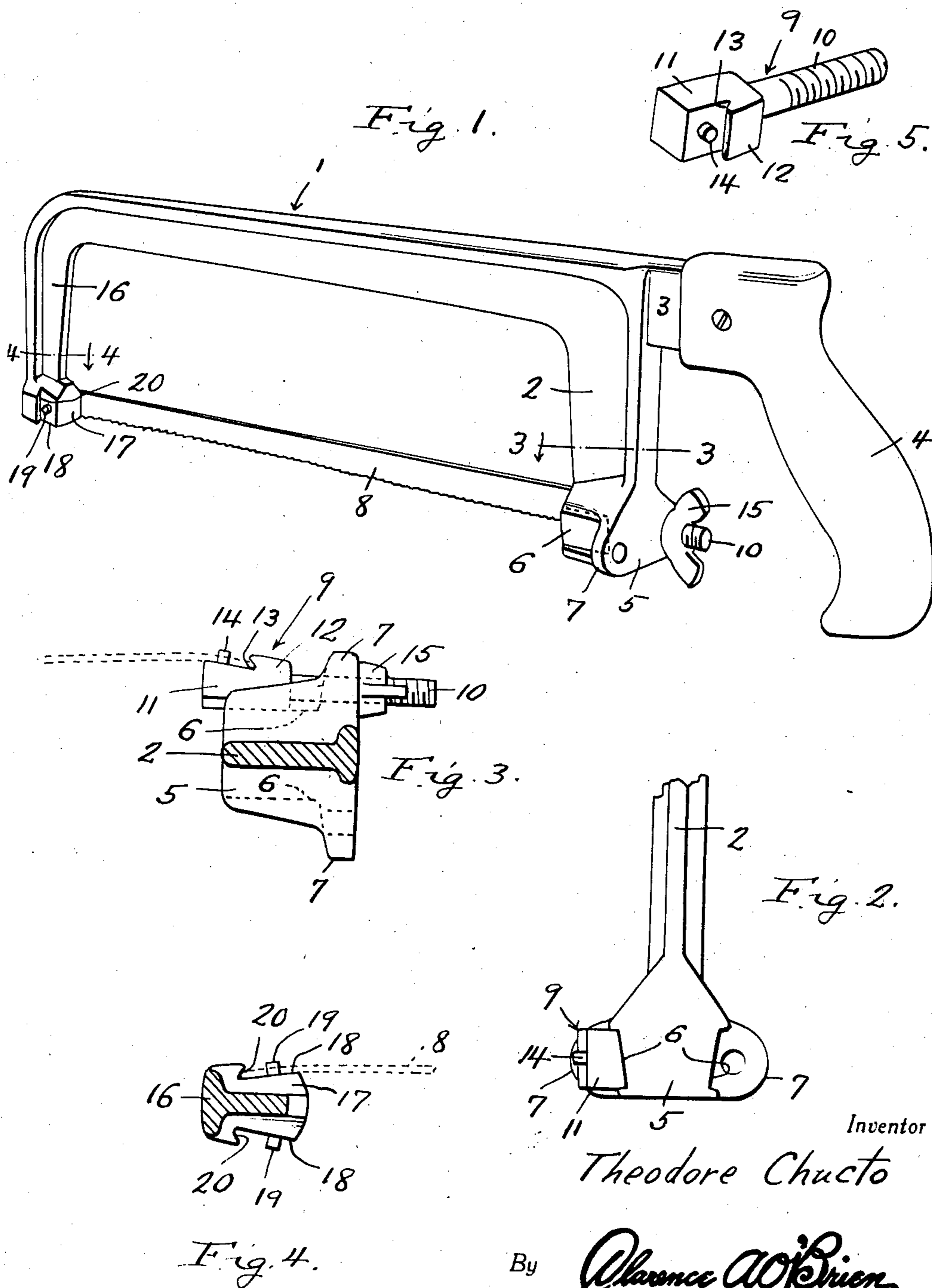
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HACKSAW

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## UNITED STATES PATENT OFFICE

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## HACKSAW

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1 Claim. (Cl. 145—33)

The present invention relates to new and useful improvements in hacksaws and has for its primary object to provide, in a manner as hereinafter set forth, a device of this character embodying a construction and arrangement which is such that a cut may be conveniently made close to a wall or other surface.

Another very important object of the invention is to provide a hacksaw of the aforementioned character comprising novel means for securing the blade on the frame.

Other objects of the invention are to provide a hacksaw of the character described which will be comparatively simple in construction, strong, durable, highly efficient and reliable in use, compact, light in weight and which may be manufactured at low cost.

All of the foregoing and still further objects and advantages of the invention will become apparent from a study of the following specification, taken in connection with the accompanying drawing wherein like characters of reference designate corresponding parts throughout the several views, and wherein:—

Figure 1 is a perspective view of a hacksaw constructed in accordance with the present invention.

Figure 2 is an elevational view of the rear end portion of the frame with the blade omitted.

Figure 3 is a view in horizontal section, taken substantially on the line 3—3 of Figure 1.

Figure 4 is a view in horizontal section, taken substantially on the line 4—4 of Figure 1.

Figure 5 is a detail view in perspective of the connector.

Referring now to the drawing in detail, it will be seen that the embodiment of the invention which has been illustrated comprises a substantially U-shaped frame of suitable metal which is designated generally by the reference numeral 1. Projecting from the rear end portion 2 of the frame 1 is a longitudinally extending shank 3 on which a pistol grip handle 4 is mounted.

The rear end portion 2 of the frame 1 terminates, at its free end, in an enlargement 5 having formed in its side portions longitudinal channels 6. The enlargement 5 further includes apertured ears 7 at the rear ends of the channels 6.

The reference numeral 8 designates a conventional hacksaw blade which is adapted to be detachably connected, at one end, to the rear end portion 2 of the frame 1 through the medium of a connector which is designated generally by the reference numeral 9. The con-

connector 9 includes a threaded shank 10 which is adapted to be inserted selectively through one of the apertured ears 7 of the enlargement 5. On one end of the shank 10 is a polygonal head 11 which is slidable in either of the channels 6. The head 11 comprises a protuberance 12 having an undercut wall providing a groove 13. Projecting from this face of the head 11, forwardly of the groove 13, is a pin 14 which is engageable in the usual opening in the rear end of the blade 8. A wing nut 15 is threaded on the shank 10 for tightening the blade 8.

The forward end portion 16 of the frame 1 terminates, at its free end, in an enlargement 17. The sides of the enlargement 17 are recessed, as at 18, and projecting therefrom are pins 19 for engagement in the opening in the forward end portion of the blade 8. The recesses 18 are formed to provide undercuts or grooves 20 for the reception of the forward end of the blade 8.

It is thought that the manner in which the device functions will be readily apparent from a consideration of the foregoing. The blade 8 is adapted to be expeditiously mounted on either side of the frame 1. By reason of the fact that the blade 8 is mounted in a laterally offset position relative to the frame 1 said blade may be used to make a cut closely adjacent a wall or other surface without interference from said frame. To mount the blade 8 on the frame, the forward end of said blade is engaged in one of the grooves 20 and said blade is slipped on the corresponding pin 19. The blade is then bowed or flexed outwardly and the rear end thereof is engaged in the groove 13 of the connector 9. This end portion of the blade is then engaged on the pin 14 after which the wing nut 15 is tightened in a manner to draw the connector 9 rearwardly. In this manner the blade 8 is tightened, the head 11 of the connector 9 sliding in one of the channels 6. As best seen in Figures 3 and 4 of the drawing, the construction and arrangement is such that when the blade 8 has been tightened the end portions thereof are bent inwardly and maintained under tension. Of course, the blade 8 with the connector 9 may be mounted on either side of the frame 1.

It is believed that the many advantages of a hacksaw constructed in accordance with the present invention will be readily understood and although a preferred embodiment of the device is as illustrated and described, it is to be understood that changes in the details of construction

and in the combination and arrangement of parts may be resorted to which will fall within the scope of the invention as claimed.

Having described the invention, what is  
5 claimed as new is:—

10 A hacksaw comprising a substantially U-shaped frame including an enlargement on one end, said enlargement having open channels in its side portions extending thereinto from the forward end thereof, laterally projecting, apertured ears integral with the enlargement and closing the channels at their rear ends, a con-

necter for adjustably and detachably securing a blade to the enlargement, said connector comprising a head selectively engageable in the channels and slidable therein, a shank on the head insertable through the apertured ears, a nut 5 threaded on said shank and engageable with the ears for tightening the blade, and means on the head for connection with the blade, and means for connecting the blade to the other end of the frame.

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