

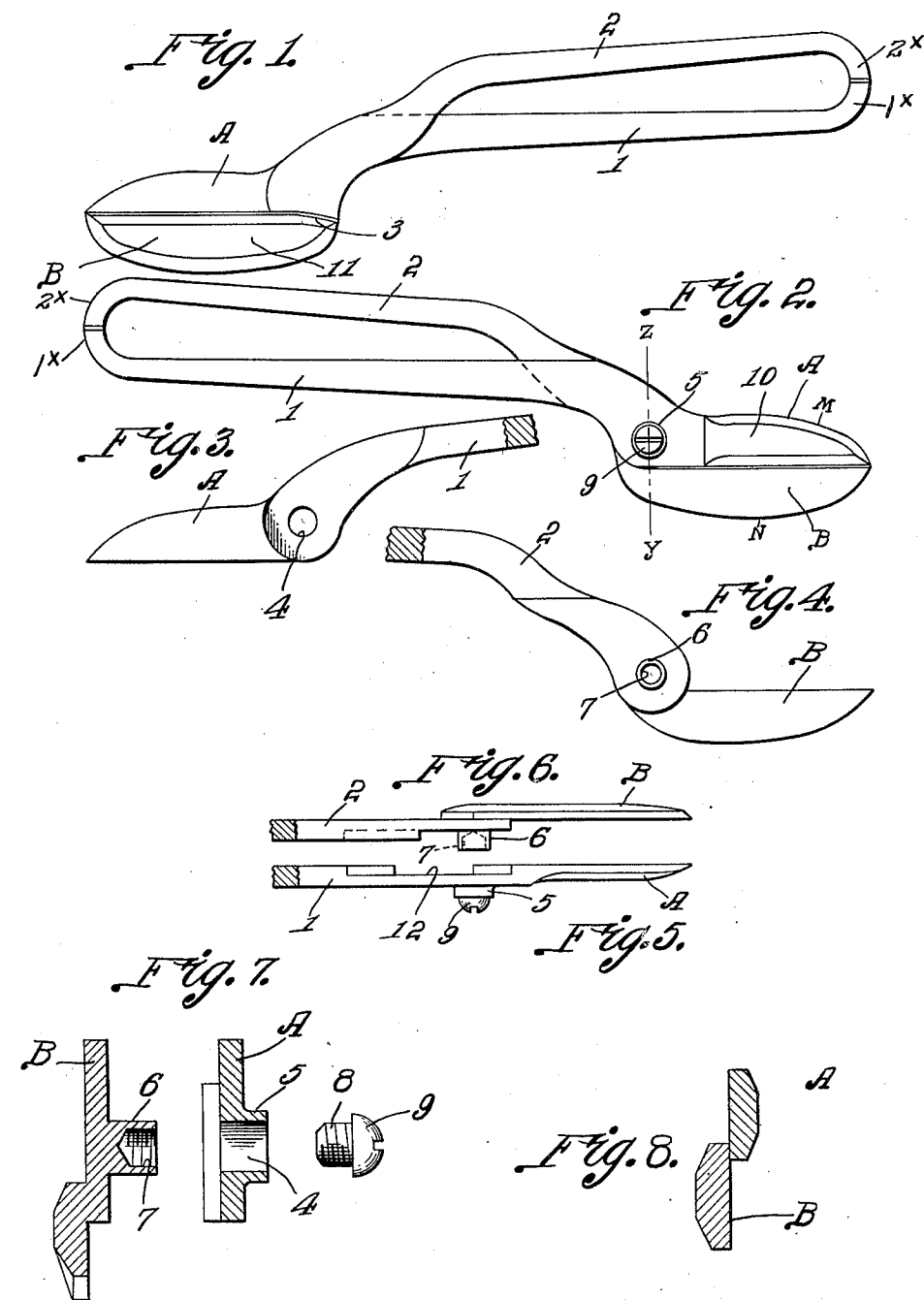
June 14, 1927.

A. GARDINER

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SHEARS

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WITNESS:

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UNITED STATES PATENT OFFICE.

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SHEARS.

Application filed July 9, 1923. Serial No. 650,551.

The object of my said invention is the provision of shears or snips designed more particularly for use in cutting tin and other sheet metal and embodying a peculiar and advantageous construction and combination of parts whereby they are adapted to be manipulated to advantage with convenience and ease on the part of the operator, and are possessed of high efficiency.

To the attainment of the foregoing, the invention consists in the improvement as hereinafter described and definitely claimed.

In the accompanying drawings, forming part of this specification:—

Figure 1 is an elevation showing one side of my novel shears which have been reduced to actual practice and successfully used.

Figure 2 is an elevation of the opposite side of the same.

Figure 3 is an elevation showing the inner side of one blade of the shears and the construction adjacent said blade.

Figure 4 is a similar view of the inner side of the other blade.

Figure 5 is an edge view of the blade shown in Figure 3.

Figure 6 is an edge view of the blade shown in Figure 4.

Figure 7 comprises disassociated views in cross-section of the construction where the blades are pivotally connected together, the section being taken in the plane indicated by the line Z—Y of Figure 2.

Figure 8 is a detail cross-section showing the relative arrangement of the blades when the shears are closed.

Similar numerals of reference designate corresponding parts in all of the views of the drawings.

The blades of the shears are designated A and B, and the handles are designated 1 and 2, respectively—i. e., the handle of the blade A is numbered 1 and the handle of the blade B is numbered 2.

As will be readily appreciated from Figures 1 and 2, one material advantage of my novel shears resides in the fact that the hand of the workman is positioned above the work by the offset in the handles 1 and 2 enabling the workman to cut clear through any width of sheet metal with but little effort and with no danger of injuring his hand. In this connection it will be noticed that the handles in addition to the offset portions are provided with straight rear portions spaced apart and having inwardly directed end portions 1^x

and 2^x, respectively, adapted when the shears are closed to abut against each other.

Another practical advantage resides in the peculiar joint best shown in Figure 7, said joint contributing materially to the strength and durability as well as to the ease of operation of the shears, and a still further material advantage resides in the blade A being recessed at the joint, so as to allow the work to pass smoothly across the full width of the blades, the heel of the blade B being rounded off slightly as a clearance, at 3 so as to afford improved results in practice.

By particular reference to Figure 7 it will be noted that the blade A is provided for the said joint with an aperture 4, surrounded by a boss 5, and that the blade B is provided with a lateral journal 6 for arrangement in said aperture 4 and boss 5, the journal 6 being provided with a threaded socket 7 to receive the threaded shank 8 of a headed screw 9 through the medium of which the blades are strongly maintained in connected and proper working position. At its outer side the blade A is reenforced as indicated by 10 in Figure 2, and at its outer side the blade B is reenforced as indicated by 11 in Figure 1. The recesses in the blade A at the joint is designated by 12, and is best shown in Figure 5, and by comparison of Figures 5 and 6 it will be noted that the blade B is shaped at the joint to fit and work in the said recess. The outer edges of the blades A and B are lettered M and N, and are preferably shaped as shown in Figures 1 and 4.

Notwithstanding the practical advantages of my novel shears as pointed out in the foregoing, it will be manifest that the shears are simple and inexpensive in construction, are susceptible of being produced as readily as ordinary shears extant, and are well adapted to withstand the usage to which shears for sheet metal are ordinarily subjected.

I have entered into a detailed description of the construction and relative arrangement of the parts embraced in the present and preferred embodiment of my invention in order to impart a full, clear and exact understanding of the said embodiment. I do not desire, however, to be understood as confining myself to the specific construction and relative arrangement of parts inasmuch as in the future practice of the invention various changes and modifications may be made such

as fall within the scope of my invention as defined in my appended claim.

Having described my invention, what I claim and desire to secure by Letters-Patent, is:—

Shears including a pair of opposed handle members, cutting blades being laterally offset at the outer ends of said handles, one of said offset portions having an internally threaded socket projecting from the inner side thereof, an apertured boss formed on the offset

portion of the other handle member and adapted to receive therethrough the threaded socket to form a pivot for the handles, and a headed screw adapted to be passed through the boss and threaded into the socket with its head contacting with the outer end of the boss to retain said handle members in their proper relative positions.

In testimony whereof I affix my signature.

ARTHUR GARDINER.