

IMPROVED SHOE-SCOLLOPING MACHINE.

In the manufacture of ladies' and childrens' fine shoes, it is now customary to scollop the edges of the vamps, quarters, and button laps. This work, as ordinarily produced by hand, by dies, is irregular in appearance, and not uniform through any number of pieces; while, as each part has to be scolloped in turn, the labor involves considerable expenditure of time. By means of the improved process, performed by the aid of the new machine herewith illustrated, the work can be done with ease and rapidity by a boy or girl; and the single tool used answers equally well for all sizes, from the smallest infant's shoe upward. The invention also admits of the use of cheap paper or cardboard patterns, instead of those of galvanized iron or zinc commonly employed.

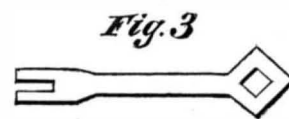
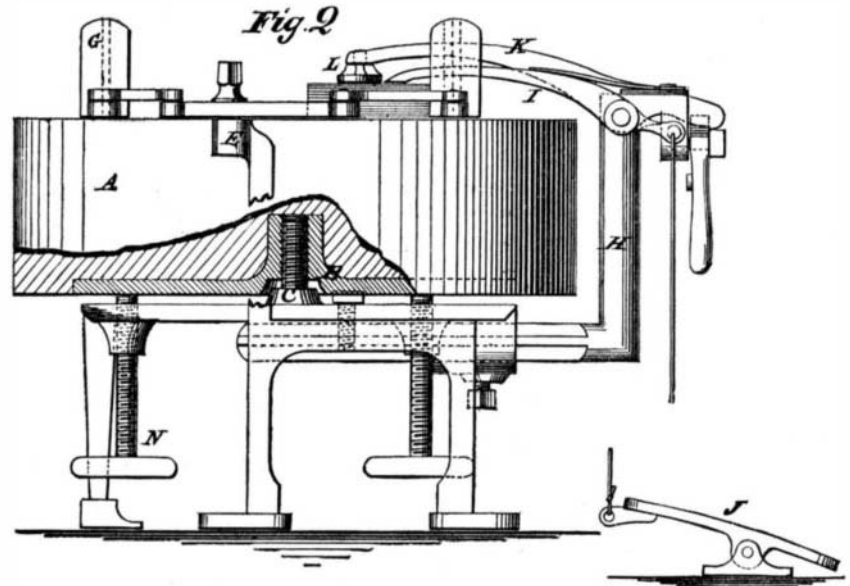
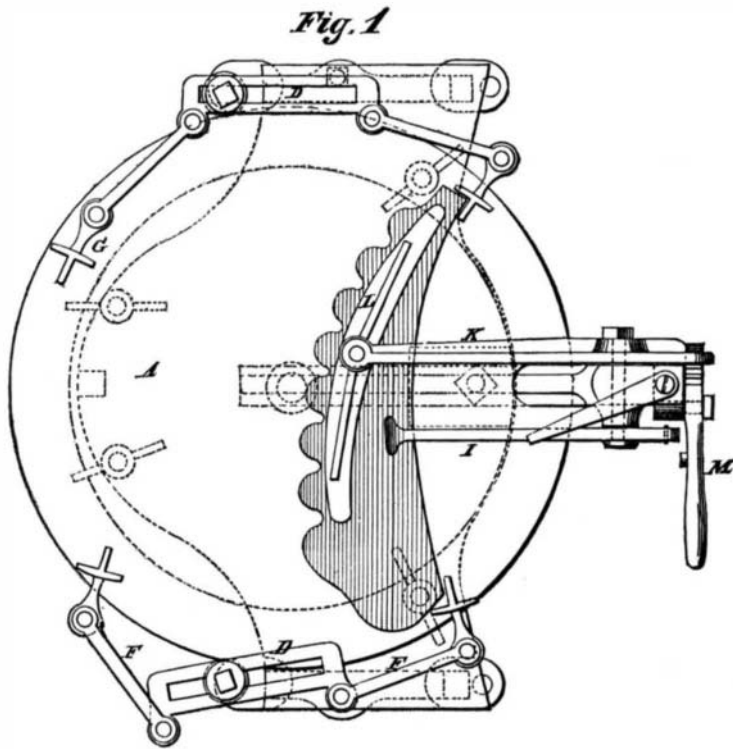
Fig. 1 is a plain view of the machine, and Fig. 2 an elevation. A is a massive circular cutting block, in the lower

which hold the pieces, to be cut as already described. When, however, the surface becomes too badly scarred, a thin slice is sawn off, and the block turned upward on its screw pivot, until its high is such that it fits against guides, etc., as before. In order to steady it, the four set screws are provided. These pass up through the metal base plate and are readily adjusted from beneath.

The object of the set screws which confine the slotted bars, D, is to allow of the adjustment of the guides to suit the different pieces to be scolloped. Thus, in Fig. 2 a button lap is being operated upon, and but two guides are used to hold the corners. In Fig. 4 a vamp is in place; and here all four guides are employed, while the quarter in Fig. 5 requires but three guides. Of course when the guides are once adjusted, they enable a series of objects of like size to be laid on the block, always exactly in the same place. Another point to be noted is that the set screws of the bars,

your posing chairs are shaky, discolored, and sadly in need of renovation for decency's sake; and numerous other little matters, apparently of trifling consequence, would be all the better for a little, or, if you please, a good deal of, timely attention.

And then the printer's quarters: Is everything in place and there a place for everything—we mean, of course, everything needful? Are the printing frames in working order, the negatives carefully classified—accepted, doubtful, and rejected—and conveniently placed for the duty that awaits them? Are the silver clippings and solutions prudently bagged and bottled, and have you done all that an ingenious and enquiring turn of mind would suggest to make this branch of the photographer's savings' bank a paying success? Finally, have you straightened up things about the rooms with a view to safety as well as neatness, so that the insurance examiner, calling unannounced, would not write you



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part of which a hub, B, is let in, and tapped to receive the vertical screw pivot, C, which rests on the circular bed plate. Said plate is supported on legs, as shown. On each side of the block are slotted bars, D, which, by set screws passing through the slots, are movably secured to the standards, E, Fig. 2. Projecting from each end of these bars are pivoted arms, F, which at their extremities carry the vertical three-armed guide pieces, G. H is a bar, bent, as shown, at right angles, its horizontal part having longitudinal projections, which enter a guide socket beneath the bed plate; so that by drawing said horizontal part out or pushing it inward, securing it in either case by the set screw, the vertical arm may be adjusted farther from or nearer to the cutting block, A. On the vertical arm, H, is pivoted a presser, I, which is held downward by the leaf spring shown. To an eye in the outer end of said presser is attached a cord connecting with a foot treadle, J, so that when the latter is forced downward the presser is lifted against the action of the spring. Also pivoted on arm H, is a bar, K, at the extremity of which and over the cutting bar is pivoted a curved adjustable slotted bar, L. To the rear of bar, H, is pivoted a cam lever, M, on the cam of which are shallow notches, which engage against the end of bar, K, and thus hold the same when its opposite extremity is pressed by the action of the cam against the cutting block.

Sufficient of the mechanism has now been described to enable its working to be understood. In Fig. 2 a button lap is represented resting on the block; several of such portions are intended to be adjusted and cut at once. To this end the bar, M, is turned back out of the way, and the foot, pressing on the treadle

raises the presser, I, as each lap is in turn adjusted in place upon the one beneath it. The presser, it will be observed, in so acting, leaves the hands free to place the pieces as desired. When a sufficient number are adjusted, the pattern is laid on top, and the bar, K, is carried down, jammed, and locked by the lever, O, as described. Then the scollops are cut by a proper tool placed so as to follow the scollops of the pattern.

In course of time the surface of the cutting block becomes injured; but its durability is greatly increased by the fact that it can be turned on its pivot so as constantly to expose fresh surface, and through the adjustability of the parts

D, may be removed by the wrench, Fig. 3, and the bars reversed (as will be seen by comparing the different positions of said bars in the various figures). This admits of accurate and easy adjustments which would be impossible were the bars immovable.

Patent pending through the Scientific American Patent Agency. For further particulars address the inventor, Mr. William Manley, 111½ North Water street, Rochester, N. Y.

Nothing to Do.

Under the above heading, Anthony's *Photographic Bulletin* counsels studio operators to put their places in order during slack times. The editor's hints are equally appropriate to other professions.

Necessarily there are no idle moments in the photographic studio—no need of yawning and lounging about for want of useful occupation. In every department there is work enough for willing hands to do, rain or shine; and if the

specially hazardous, and charge your employer accordingly?

And now, Miss Blank, of the reception room: are you waiting for a customer, and while waiting have you taken up your embroidery or the last novel, or, what is more likely, a position of rest on your elbows with hands supporting a head not able to comprehend the fitness of things in the duties assigned you? If unable to wield the broom and dust brush, you have, of course, had the service performed, and in the meantime you have brightened up the showcase, arranged in tasty order the specimens therein and thereabouts, and you have not forgotten the disorder in which you or some one else left the cabinet of drawers the other day in looking for a needed mat, passepartout, or frame; and you have looked into the toilet or dressing room, and seen that the mirror reflected the image of a neat and tidy attendant; and then you have carefully looked over the promised work and appointments to know of yourself that they are not to result in disappointment when the specified time arrives; and finally you have carefully surveyed the field over which you hold dominion, and find it not deficient in any of those little attractions and matters of taste which your thoughtful brain and industrious hands could supply. Then you, and the operator, the closet hand, and the printer, are always busy and usefully occupied, and the proprietor, if he is observant and appreciative, as he should be, is happy in the possession of such help.

Swimmer's Cramp.

The loss of body heat in water is now held to be intimately associated with the cramp which so often seizes even able swimmers. Here there is not only a general powerlessness induced, but the spasm of the muscles connected with respiration diminishes the capacity of the

Fig. 4

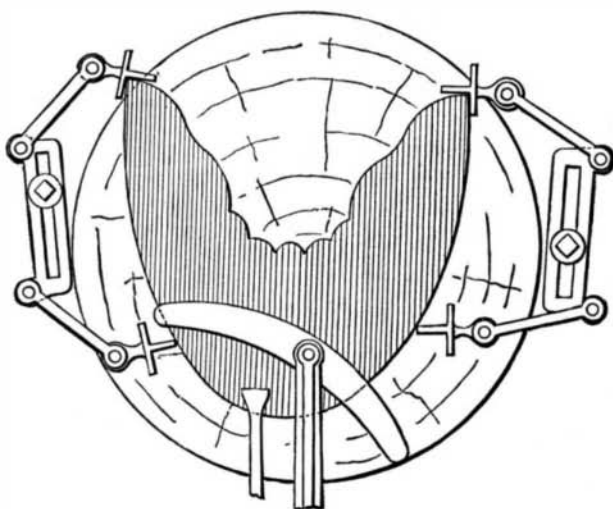
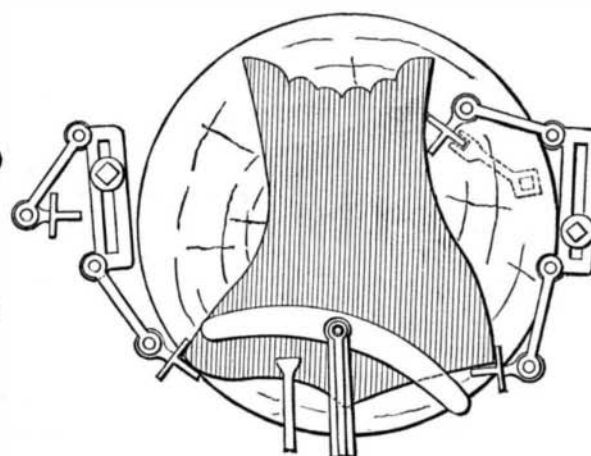


Fig. 5



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“head of the house” is level, he will see to it that his subordinates are provided with useful if not at all times particularly agreeable occupation. To say nothing of the requirements of order and neatness in the several work rooms, as well as the reception and sales rooms, there are always little matters of repairing and adjusting, which the operator, closet hand, and printer in hurried moments deferred till “a more convenient season,” which season is now, when no orders are pressing, and no sitters in waiting.

Your bath needs cleansing and renewing; your shields are loose-jointed and leaking light; your chemicals need filtration; your camera and lenses require readjustment;

thorax, and the cramp-stricken swimmer often disappears immediately without warning, never to appear alive. The buoyancy conferred by the chest being full of air is largely reduced by this diminished thoracic space, and the body at once goes under water. No skill in the art of swimming will secure any one from this risk; and when the water is cool it is well that the swimmers keep near the shore, or at least near each other, so that aid can be readily rendered if required.—*Sanitary Record.*

If, during a frost, the moles throw up fresh earth, within 48 hours the frost will be gone.