

Ilion, New York
November 12, 1953

TO: E. H. PRATT
FROM: M. H. WALKER
SUBJECT: KNURL OF TRIGGER ADJUSTING SCREW - MODEL 721

Attached you will find a copy of Dwg. B-19921-X with our present idea of the proper knurling shown. These dimensions were taken from the sample knurled screw in attached envelope, and represent a satisfactory knurl. This knurling was done with a straight knurl set 21° from the axis of a $3/8$ " rod, which was turned to size after knurling.

We wish to emphasize that the dimensions of the knurl shown are furnished as a guide only, as we do not wish to specify some detail of the knurl which might prove exceedingly difficult to obtain while not contributing at all to the function of the knurl.

It is believed that the function which we desire of the knurl is readily seen from the attached Dwg. D-22765-X of the fire control for the M/721-722 - 40X Rifles. We wish to get distinct "clicks" and have the screw held rather well against backing out, and also wish to give the greatest possible adjustment to the trigger spring in the limited motion of the screw.

The sample screw is very satisfactory in that the notches are deepest near the point where spring tension is lightest, and also because the deepening of the notches near the point gives effective motion to the ball of very nearly the 30° slope considered optimum.

CC:T
Attach.

M. H. Walker
Arms Research & Development Division