

Mr. H. J. Robinson
 Mr. Hays
 Dr. F. Foote) In
 M. H. Walker) turn
 R. A. Williamson
 L. R. H. Grace

Date: 12-8-47
Product: M/721
Component: 1 Tailor
Exp. No.:
File No.:

Conclusion (continued):

Summary: 42-1074-1000 - 47721 Magazine Followers were gaged on Gage #2-50973 before hardening in the water bath. When hardened, they were gaged on 10002 after adjustment of temperature. All parts were then re-gaged in the above gage and all were satisfied the gage 100 percent.

Three Followers thus hardened were assembled into guns. Parts operated satisfactorily except that feeding was difficult in the last shell in the Magazine. However, feeding was no more difficult, or perhaps slightly less, than experienced on soft followers from one Follower to the other. The Followers did not wear on actioning but some wear on the Bolt Head was evident where the Bolt Head and Follower

Three more hardened followers were nitro-blacked after the cyanide treatment and two of these assembled into guns. These latter on motioning gave no wear on the belt and no moving of the follower. One of these fed the last shell very smoothly, while the other was difficult to feed on the last shell. This again is no different than is ordinarily experienced from follower to follower.

Tests with a Bolt ground sharp on the riding edge of the Bolt Head would not pass Followers with either of the above treatments.

Conclusion

The above results indicate that there is no harmful distortion to be expected with hardening of Follower.

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