Tion, New York, April 21, 1953

TOR B. B. SORES

THERE S. M. ALVIE THE MANUAL WARM

APR 2 1 1953
W L CLAY

In regard to Mr. Sharp's question relative to special sales features of the Model 721 Trigger Mechanism, we believe that this has been used as a feature in a number of the advertisements of the Sales Department, in fact, it has been often referred to as the "High Fowered Rifle designed with the Match Trigger". Also quoting from the Shooting Editor, Warren Page, WIELD & STEELEM magazine, April 1948,

"Its practical accuracy, by the way, is greatly enhanced by an adjustable trigger mechanism directly descended from that of the Model 37 Match Bifls - no military take-up, thank Heaven, adjustable with a screw driver for pall weight and minimum backlash to your taste, crisp and without creep in my rifls. It is a fast action - the firing pin moves only 1/16 of an inch on release. The sear is not subjected to bettering by use as a belt stop; instead, Hamington has used a simple, spring-loaded laver rising into the left side of the receiver, actuated by a button release just forward of the trigger."

Astrally, since this rifle was introduced, we have discontinued describing the Model 721 Fire Central as having an "adjustable trigger"; in fact, we have gone so far as to seal the trigger adjusting serves at the factory. This is becomes we found that some of the inexperienced shooters might areats a safety hazard by setting their trigger pull adjustment too light. However, the design does lend itself so that the namefacturer can provide for a rather wide range of trigger pull specifications without requiring any change in components.

Regarding Mr. Sharp's comment "that the rifle had an unusual accuracy due to special boring", he no doubt is referring to our draw rifling process which has been standardized in production since this rifle was first introduced, but has not been the subject of my advertising claims because of our desire to protect our interest in the development know-how which is involved. Actually, I think that we could claim, with respect to this order, that the Remington barral manufacturing process is one which assures a high degree of uniformity for bore and rifling disneters

R. Scott

- 2 -

April 21, 1953

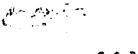
and thus assures a relatively high degree of inherent accuracy. Since there has been a question for some time as to just what we might claim for this process, for reasons described above, we would like to have you clear this statement with G. M. Calhoun before it is released.

We are presently converting over one of the sample rifles for clip loading. In this connection, we find that it will not be possible to accommodate five (5) contridges in the magazine without increasing the magazine depth and with corresponding allowance in the Stock. We therefore propose to defer making this change in the shooting model, however, it can be taken ears of very well in the design for production without any significant change in factory cost.

S. M. Alvia

Arms Research & Davelopment Division

START



MODELS 721-722 IMPROVENENTS

Early in 1950 work was started to develop various improvements to these models. Designs were developed and models built for the following:

1. New wide trigger
2. New style bolt handle

3. New trigger guard

4. New magazine floor plate
5. New safety
6. New barrel specifications
7. New front and rear sights

8. Machine checkered grip and fore-end

9. New "Super Grade"

These items were reviewed in detail at the meeting of November 17, 1953 and were further considered at subsequent meetings. As indicated in Minute #5 of July 1, 1954, it was decided to defer further action on improvements until January 1, 1955. In the meantime, the Arms Research Division was requested to reconsider the problem on basis of what might be done in the way of "minor changes" to reduce cost as well as enhance saleability incidental to consideration of offering these models at lower selling prices. Without undertaking major design, the following recommendations were made, applicable to calibers 30-06 and 270 in the Model 721, and calibers 300 Savage and 257 in the Model 722:

- Barrel Reduce length from 24" to 22" and eliminate the "hub" in which the present dovetail cut is milled for attaching rear sight.
- 2. Provide a new open sight arrangement to permit use of only one style (high comb) of stock with either telescope or open sights. This involves a higher front sight together with a higher front sight ramp used in combination with the new rear sight base for attaching the present rear sights.
- 3. Complete development of lower cost finishing for barrel and receiver; i.e. Supersheen and black oxide.
- 4. Provide new oil finish for stocks in place of present lacquered finish.

The advantages to be gained by the above includes a new "Carbine" appearance, improved handling qualities and especially for use as a "saddle gun". With the new sighting arrangement it is possible to provide a feature of interchangeability to the shooters so that either telescope or iron sights may be used without having to interchange from high comb to low comb stocks. It also will provide a new and tougher finish on the stocks. Appearance of the rear sight is improved through use of a new -] -

MODELS 721-722 IMPROVEMENTS

From the standpoint of manufacture, advantage will be gained through eliminating requirements for providing both high and low comb stocks, tooling for barrel processing is simplified and cost reduced for machining and grinding through elimination of the barrel hub. The proposed stock finish is a "scuff resisting" penetrating oil finish which was developed by duPont for use on floors and other heavy duty requirements. It appears to bring out color of grain in the wood. At the present time we have not had sufficient experience to confirm any reduction in cost using this material; however, it appears to offer such a potential.

Estimated tooling and product cost for proposed changes are as follows:

a. , (, do 1011043 (Unit . Factory Prod.Cost	Annual Factory Cost	Total Expend.
1. 2. 3.	Reduce barrel length to 22" *Eliminate barrel lug Provide new front sight & front sight ramp & new rear sight base	6-3/4¢ Red. 2.2¢ Inc. 17.1¢ Inc.	780 Inc.	\$ 600 8;435 5,200
4.	Reprocess barrel & receiver finish to SuperSheen with black oxide	48.6¢ Red.	17,000 Red.	10,000
	Total	36.0¢ Red.	\$11,820 Red.	\$ 24,235

"The reason for showing an increase in cost for eliminating the barrel lug is to reflect the additional estimated purchase cost required for providing a rear sight base.

It has been estimated that actually there would be an estimated saving of approximately 3.2¢ each or \$\infty\$1,120/yr., for eliminating the lug on the barrel if it were not necessary to provide a new base for mounting the present rear sight.

Firm estimates have not yet been developed as to total time required to provide facilities for incorporating the above changes; however, it is the opinion of Research & Development that this would be within a range of at least 3 to 4 months. If it were decided to adopt the proposed design for the shorter barrels and/or elimination of barrel lugs, etc., it may be well to review the status of warehouse stock and work in process as follows:

	Warehouse Stock	Barrels in Process
30/06 270 300 Mag. 300 Sav. 257 222	2440 1953 758 1256 1941 1787	2859 155 341 12 325 1190
	10135	4882