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Elion, New York  
April 23, 1957

V. H. FOSTER, JR.  
BRIDGEPORT

DETACHABLE MAGAZINE FOR THE M/721-722

Without benefit of any design investigation, the following is my opinion of what might be involved with the above.

Since production quantities would still be comparatively small it would be essential to limit the additional capital expense involved. This would point towards use of present M/760 magazine. It is probable that the amount of projection below the trigger plate would be about the same as on the present M/760-760's and that this would not be objectionable. It would require milling out the present guide rails in the receiver and instead to provide a stop for proper positioning of the magazine as well as a retaining latch. The present trigger plate would have to be altered by blanking or machining an opening to accommodate the insertion of the box.

Development cost would probably range from \$5,000 to \$10,000, and cost of tools would probably range from \$10,000 to \$20,000 assuming that the M/760 magazine box assembly would not have to be altered. Increased factory cost for the additional parts and operations plus amortization would probably range from \$2.50 to \$5.00 each.

Although offering some added convenience this arrangement would unfortunately have the disadvantage of adversely affecting the ruggedness of the rifle, especially from standpoint of feeding. At present the cartridge guide rails are an integral part of the receiver and thus not subject to change. This would not be true in the case of the more fragile clip magazine. A better approach would of course be to retain the present guide rails in the receiver and alter the M/760 style of magazine in such a way as to eliminate the lips on the magazine. It would also be necessary to provide a means of retaining the cartridges in the magazine until it was inserted securely into the M/721 receiver. This has been given some thought from time to time but as yet I have not seen any very practical means for accomplishing same.

Obviously it would require additional research work to develop such a means, probably in the range of some \$25,000. It would also involve the providing of additional tools for changing the M/760 magazine, the extent of which would be rather difficult to estimate.

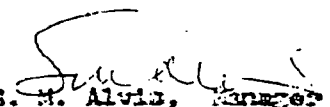
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Without further development, but my guess is from \$25,000 to \$50,000 additional.

Should further work in this direction be justified, it is assumed that you will advise, and suggest be accomplished through the Operations Committee.

  
J. M. Alvis, Manager  
Elion Research Division

SMA:T