

cc: G.M. Calhoun  
H.M. Pierce - J. Hodgson  
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Ilion, New York  
January 11, 1962

H. M. MALCOM  
BRIDGEPORT

MODEL 12-709 CENTER FIRE PISTOL

I am enclosing herewith a copy of the proposed project for two new Remington firearms, and which is self-explanatory. You will note that the designers would like to see a short cased version of the Caliber 222 in the pistol. This is in order to gain desired ballistics advantages so that we would have something to offer that is not now available.

In order to take advantage of present indicated popularity you will note that the project anticipates including the "Jet" cartridge. However, this will require development of a different extractor and changes to the bolt head, so would follow and probably be justified on basis of additional volume.

While working on development of this pistol our people have been assisted by S.C. Toulson in connection with the ammunition proposals, and through his arrangements were made to obtain components for several thousand rounds. The cartridge is about .250" shorter than the regular 222. For the short pistol barrel we have been using a 50 grain soft point bullet with 165 grains of #427 powder. I have asked Wayne Look to arrange for the Measurements Laboratory to provide some formal data which would be useful for you folks to consider as regards to manufacture. In the meantime believe that you will be interested in the following preliminary data.

Velocity with the above loads in a 24" barrel gave 3025 fps, and with a 10" barrel it runs to 2500-2650 fps. These were taken with screens and about 6 ft. from the muzzle, hence have not been corrected. Pressures are from 48,000 to 49,000.

Incidentally, another reason which is important to the designer in proposing the rimless case is in order that it be made more adaptable for an outstanding weapon on which we have been working as a military application.

R. M. Malcom

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The Sales Department is presently considering prices and volumes and of course will likely want to do the same thing for the cartridge. We have hoped, since the case is identical to the 222 except for the body length, that it will involve a minimum of additional expenditures for tooling. At the same time there may be a little saving in metal, but very likely the cartridge cost will be pretty near to that of the regular. On the other hand our people here feel that because of the national reputation for accuracy in the 222, together with the added velocity and energy it offers, that this will be justified.

Messrs. Leek, Walker and Morse are presently checking out the chamber and cartridge drawings we have been using, and this should be in your hands in the next day or two. In the meantime thought you would be interested in the above information.

We will be glad to arrange for any of our people to work with you in connection with any processing or engineering involved. However, I believe this will be more or less straightforward, being simply an adaptation of something you already have, and that J.C. Toulson will be able to supply any of the data we may be missing.

SWA:T

J. W. Alvis, Manager  
Elion Research Division