

MODELS 742X AND 1100X - contd.

system of the gun. This action assures uniform Bolt velocity at a reduced rate and slows down unlocking until obturation of the ammunition case is completed. Load on the Extractor should be a minimum and ejection controlled, with increased life to all parts regardless of the ammunition load.

- . The Frame or Receiver should be almost identical between the models and would be formed from heavy gauge steel, greatly reducing the machining requirements. Two sizes would be used to cover the largest magnums and the smallest calibers.
- . Something of the old sophisticated designs and appearance has been added - - using a top lever, so often found in break-action guns and side panels that are varied in thickness. Actually the new designs are break-action automatics.
- . An Action Spring Tube provides a load and energy absorbing medium and is retained in the Stock of both the rifles and shotguns. This is a convenient place for this mechanism and doubles for a means of attaching the Stock.
- . The Fire Control is detachable but does not involve the Trigger Guard. The mechanism would be encased in a molded nylon package reinforced with steel plates and is removed from the top of the frame instead of out of the bottom. This keeps the lines cleaner at the bottom and allows for a more rugged design.

The remaining characteristics would be distinctly different between the shotguns and rifles. The locking mechanisms are very important in any design and should be thoroughly understood. The new rifle is to be designed with a rotary locking mechanism of six (6) lugs. A strength test has been conducted and Exhibit 4 shows the comparison in strength with favorable results for the Model 742X. The proposed design will provide