all design, draw Tamer. I've fire testing on one LT-20 and one 28 ga gun is underway. The LT-20 is at 6000 The problems have been experienced yet.

the 12 ga. reight turned ou Six new checkering patterns have been designed and executed and turned over to marketing for a market research study m/ 7400- 7600 see entra sheet

the primer blanking problem tip diameter was reduced to .049 on one design and .055 on the other, the firing pin spring was redesigned to absorb 50% less energy (and thus increase firing pin inertia) and the exit hole on breech bolts was radiused by a metal removal technique instead of a punch. Tip strength was increased by shortening the tip to approximately half of its former length in order to reduce the cantilever effect.

Testing is now under way on these designs. Both have so far sustained 130 proof rounds each with no blanking or breakage. The proof ammunition being used is the highest pressure of all lots available (77 C.U.P.). Standard 742s proofed in the Plant gallery with this ammunition show a 5% blanking rate (5 of 100 guns monitored).

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After conclusion of endurance testing we will reach a decision as to which tip design to use, .049 or .055. The .055 tip has an advantage in that it should be slightly stronger but the .049 tip gives more leeway for out of tolerance parts.

Parts for additional testing including firing pins, springs, and breech bolts are now being fabricated.

A. W. S. A.

A) Endurance testing on two additional guna is also complete. One pin went 4489 rounds and the other 3498 rounds. No tips or bodies were broken. The failure was at the "hat" section at the rear of the pin. This is considered to be an excellent failure mode since it does not present a safety problem upon failure. Indent on closing was checked after failure and was 0.0