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Elton, New York
 September 27, 1974

C. M. ARVIN

WEEKLY PROGRESS REPORT - PROGRESS RESEARCH SECTION
Week Ending September 23, 1974

Research & Development**Research & Development**

The tools for the Model 772 front sight have been received and installed in the Stokes C&O press. A small number of pieces have been run off to test the tools and to determine the differences in density in the various sections.

The hundred pounds of 2B-30 powder with 15 Zinc Selenate has been pressed into 12 gauge barrel guide rings using a slight taper on the core. Subsequent pressing of 20,000 front-end rings resulted in excessive wear on the core rod. A sample of parts were pressed from Reichle as a possible substitute.

Development tooling for pressing the Center Fire Rifle front sight has been received and installed in the C&O press. Initial concepts are very encouraging.

A visit to tooling vendors plants is scheduled for next week to discuss tooling for the M772 rifle components. It is planned to start tool design immediately following this visit.

Finishing

Tests are continuing to eliminate salt bleeding on Powder Metal parts. This work has been expanded to make a stop to stop check of components thru various operations to determine the effect of the different solutions involved on the Powder Metal parts.

More Experimental

Approximately one hundred (100) aluminum receivers were processed in production equipment following procedure established in the laboratory. The test was successful and the process will be re-established as soon as sufficient die is received.

S. H. ALVIN

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September 25, 1953

ENCLOSURES

The number of pieces per grind on milling Powder Metal triggers has dropped from 1,300 - 1,400 to 250 - 300. This condition appeared immediately when the triggers of the second pressing lot were machined. Steps are being taken to correct the condition.

MACHINABILITY

A visit was made to Union Twist Drill Company to review H-rake milling. From six submitted, three applications are available for first test purposes. The necessary information is being forwarded to Union Twist Drill Company for fabrication.

INFORMATION FOLDERS - MODEL 721-722

A revision of this folder has been submitted to the printer, proofs reviewed and delivery of the new issue is expected in the immediate future. This revision explains more fully the proper method of adjusting the "Pull" and "Travel" of the trigger mechanism.

ANNUAL DISPLAY - F. B. WHITE

A series of tentative displays have been prepared to emphasize the project developments for this section of R&D. A review of the material will be scheduled with responsible project personnel before the finished display is completed.

E. K. Wheat, Supervisor
Process Research Section

EHW:cmh