Summary of Progress from Inception:
This work was started prior to the decision to combine loading and finishing of caliber .22 cartridges on one machine. Tests were run to apply lubricant only on the grease grooves thereby producing finished cartridges of better appearance. These tests were satisfactory. Information obtained in this experiment will be used in the development of the rim fire loading and finishing machine mentioned above.

This Quarter's Work:
During this Quarter, check tests were run on this method of lubricating and results indicated that satisfactory lubrication and moisture proofness were obtained; but there was a slight difference in accuracy from the control sample which might have been due to the small sample used in the accuracy test.

Proposed Next Quarter's Work:
It is proposed to run additional tests in larger quantities to definitely establish the reason for the accuracy variation.

Project: Caliber .22 Case Wall Variation Gauge - RX-B-3826
Personnel: J. K. Hamil
Authorized Amount: $1,300 Total Expended to Date: None

Nature of Problem:
Work is being started on the design and development of a special gauge for the Research Unit to measure case wall variation in the caliber .22 case development study.

Summary of Progress from Inception:
The project has been approved and design has been started.

This Quarter's Work:
During last part of this Quarter the design was started and partially completed.

Proposed Next Quarter's Work:
It is proposed to complete design and to build the gauge.

Project: Improved Head Turn Machine - RX-B-3802
Personnel: W. S. Reynolds
Authorized Amount: $12,500 Total Expended to Date: $13,773

Nature of Problem:
A new style center fire head turn machine is under development to replace the present head turn units which have been in use in the plant for the past fifty years.

Summary of Progress from Inception:
The unit was designed and built. It was tooled for