

34

DATE

9 - 11 - 44

SUBJECT OF EXPT.

M-722 bolt head & Safety

After approximately 40 regular 300 S&W loads the M-722 bolt head broke loose a second time. Inspection of the joint showed that the brage was not sufficient. The head was joined a third time using a ring of 100% silver solder in a relief spot on the head. At the same time several test specimens were made up and checked on the tensile machine using different brazing compounds. The minimum joint strength obtained with a poor brazing compound was 7000^{lb} force to separate head and body, the best joint gave 25000^{lb}. It was decided that the ring of brazing compound in a relief spot constituted the best joint.

The M-722 bolt handle bent during the proofing due to head retraction (rough chamber). Opening the bolt by hitting with a stick of wood caused the bending. The handle was replaced and the chamber smoothed.

EXPERIMENTER

WITNESS

DATE

DATE