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Division 3

Rocket Ordnance

Compiled and Edited by  
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## DIVISION 3

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1200 Rocket and underwater ordnance, edited by Eliot B. Bradford. Washington, D. C., 1946. 381p. Contents.--I. Underwater ordnance, by E. B. Bradford.--II. Rocket propellants and interior ballistics, by B. H. Sage.--III. Rocket ordnance: Thermodynamics and related problems, by R. E. Gibson.--IV. Rocket weapons as developed and used in World War II, by C. W. Snyder.--V. Rocket ordnance: Theory, principles, and design, by E. B. Bradford. C

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1202 Hardening of inside diameters by inductive heat treatments, by H. E. Somes. July 1941. Reprinted from the Iron and Steel Engineer. R

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| 1375 | Computation of drag and deceleration coefficients of 5'0/10 GPSR, by T. H. Pi. Mar. 12, 1945. IPC-71. C   | 1385a | Corrosion tests on various metals in solutions of smokeless powder, by Bruce H. Sage. Feb. 20, 1943. IIC-27. C  |
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- 1470 [Drawings of Mark 5 aircraft float lights] April 17, 1943. C

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| 1492 | Effect of fins on yaw and deflection, by Leon Blitzer and Leverett Davis, jr. Aug. 10 and Oct. 31, 1942. MTC-7, ITC-5. Title varies. C                     | 1500a | The effect of roughness of sea on the entry angle of a projectile, by R. I. Piper. Aug. 19, 1944. IOC-31. R  |
| 1493 | Effect of launcher length on the downward deflection of the trajectory of the 4"5 BR (4H-01 Ma, Lot 4) at end of burning, by J. G. Waugh. [194-] OPC-13. C | 1501  | The effect of roughness of the sea on the entry and ricochet angles of a projectile, by Max Mason and L. B. Slichter. Feb. 1, 1945. IOC-31, revised. OSRD 2374. C                                |
| 1494 | Effect of mal-launching on the accuracy of rockets (spinners); local intermediate report by L. Ivan Epstein. Jan. 13, 1944. IPC-53. C                      | 1502  | Effect of small changes in burning time and velocity on trajectory drops of rockets fired forward from aircraft, by L. Blitzer. Nov. 1, 1944. OPC-28. C  |
| 1495 | Effect of nitrocellulose source upon the characteristics of double base powder, by B. H. Sage. Dec. 15, 1942 and Mar. 2, 1943. JDC-28, A-155. OSRD 1266. C | 1503  | Effect of squib boosters on the performance of black powder igniters, by B. H. Sage. Aug. 14, 1943. JCC-9. C   |
| 1496 | Effect of nose shape on underwater trajectory of Mk 13-2 torpedo models, by Max Mason and L. B. Slichter. Dec. 22, 1944. IOC-39. OSRD-2326. C              | 1504  | Effect of storage and weathering on ASPC rocket motors, by B. H. Sage. Sept. 23, 1943. JDC-50. C   |
| 1497 | Effect of opacity on the burning characteristics of extruded Ballistite grains, by B. H. Sage. Apr. 21, 1944. JDC-61. OSRD 2134. C                         | 1504a | Effect of tail spin on underwater projectiles. by B. H. Sage. Jan. 10, 1942. IPC-2. C  |

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| 1546  | Experimental values for rocket sight calibration for several aircraft; local intermediate report by O. D. Frampton. June 20, 1944. IPC-61. C                | 1555 | Extrusion and burning characteristics of three types of modified Ballistite, by B. H. Sage. Mar. 11, Apr. 7 and May 18, 1943. JDC-40, 42, A-183. OSRD 1461. Title varies. C |
| 1546a | Explosives safety, by J. H. Maxson. Nov. 1, 1945. IZC-3. R  | 1556 | Extrusion and burning characteristics of two types of colloidal propellant, by B. H. Sage. Jan. 12, 1943. JDC-35. C   |
| 1547  | Explosives safety regulations. Feb. 15, 1945. CZC-1. OSRD 2395. C   | 1557 | The extrusion of Ballistite dyed with nigrosine, by B. H. Sage. Jan. 21, 1943. JDC-34. C  |
| 1548  | The exterior ballistics of fin-stabilized aircraft rockets, by L. Blitzler and L. Davis, jr. Aug. 20, 1945. JPC-24. OSRD 2528. R                            | 1558 | Extrusion of Ballistite tube from solventless sheet stock; second interim report by B. H. Sage and W. N. Lacey. Feb. 23, 1942. JDC-3.2. C                                   |
| 1549  | External ballistics of 5" HVSR fired rearward from aircraft; field report by George Safonov. Jan. 10, 1945. OPC-15.1. C                                     | 1561 | Extrusion of large tubular grains of Ballistite, by B. H. Sage. Dec. 1, 1942 and Jan. 4, 1943. JDC-24, A-135. OSRD 1183. C  |
| 1550  | External ballistics of the 2"5 rocket grenade (300-ft/sec) based upon data for the 2"5 RG (350-ft/sec); local intermediate report. July 29, 1943. IBC-42. C | 1562 | Extrusion of multi-web grains of Ballistite, by B. H. Sage. Feb. 18, 1943. JDC-38. C  |
| 1551  | Extrusion and burning characteristics of a double-base propellant employing ethyl centralite as stabilizer, by B. H. Sage. Nov. 23, 1942. JDC-26. C         | 1564 | Extrusion of solventless Ballistite; intermediate report by T. Lauritsen. Dec. 3, 1941. IDC-1. C  |
| 1552  | Extrusion and burning characteristics of a nitrotoluene propellant. Nov. 1942. ODC-10. C  | 1565 | Extrusion of UP propellant; local intermediate report by T. Lauritsen. Dec. 11, 1941. IDC-1. Revision, Dec. 15, 1941. JDC-1. C  |
| 1553  | Extrusion and burning characteristics of a special propellant, by B. H. Sage. Sept. 15, 1942. JDC-29. C   | 1566 | Exudation of nitroglycerin from Ballistite propellant grains, by B. H. Sage. Sept. 8, 1945. JDC-78. OSRD 2532. C  |

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| 1568 | F6F-3, F6F-5. Sight settings for 2"25, 3"5 and 5"0 aircraft rockets. Nov. 18, 1944. UNC-5. OSRD 2272. R  | 1578  | Field tests of the 3.25-in. rocket projectile (3A9); local intermediate report by C. W. Snyder. June 28, 1943. IBC-43. C                            |
| 1569 | Feasibility of visual coincidence scoring by two observers of tracer bullets shot at rocket targets, by J. W. M. DuMond. May 1, 1942. JNC-3. C             | 1579  | Figures selected from PBV officers' manual. Jan. 18, 1943. JNC-4. R   |
| 1570 | Field standardization of the 2"5 subcaliber rocket (170-ft/sec ASPC); local intermediate reports. June 24 and Oct. 18, 1943. IBC-33, 34.2. Title varies. C | 1580  | Filing and indexing system for CIT files. Jan. 10, 1945. OZC-1.3. C   |
| 1571 | Field standardization of the 7"2 ASR; local intermediate report. July 11, 1943. IBC-37. C  | 1581  | Filing and indexing system for Kellogg files. Mar. 5, 1943. OZC-1.2. C  |
| 1572 | Field standardization of the 7V11; local intermediate report. May 24, 1943. IBC-22.2. C  | 1582  | Final report of the activities of Production Control Department [of Section 5] Vols. 1-7. Jan. 5, 1942-Oct. 15, 1945. R                             |
| 1573 | Field standardization of the 7V12; local intermediate report. May 24, 1943. IBC-29. C  | 1583  | Firing circuit for the rocket booster stations (schematic diagram TL 3025), by R. N. Skeeters. July 26, 1945. NOC-32.2. C                           |
| 1574 | Field standardization of the 7V13; local intermediate report. May 12, 1943. IBC-26. C  | 1583a | Firing depth tests of modified Mark 6 Mod. 1 depth charge pistols in Mark 9 depth charges, by B. H. Rule and W. P. Huntley. May 18, 1943. IOC-2. C  |
| 1575 | Field standardization of the 300-ft/sec subcaliber VAR; local intermediate reports. June 1943. IBC-34, 35. Title varies. C                                 | 1584  | Firing of 3½" UP's at Eaton Canyon Site; report of field tests by W. A. Fowler. Oct. 28, 1941. IHC-1.1. C   |
| 1576 | Field standardization of the VFR-CIT 200-ft/sec; local intermediate report. Aug. 1, 1943. IBC-41. C  | 1585  | Firing of 6" anti-submarine UP's at Eaton Canyon Site, by W. A. Fowler. Oct. 26, 1941. IHC-1.2. C   |

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| 1586  | Firing tables for the 5"0/5 HCSR Model 134 from the Precise Mk 50 and Mk 51 Launchers, by P. W. Stoner and J. W. Follin, jr. Aug. 9, 1945. OPC-41.1. C | 1594 | Forward firing of 3"5 and 5"0 aircraft rockets from TBF-1, PV-1, SBD-5, and F6F-3 aircraft. Dec. 31, 1943. JNC-9.3. OSRD 3458. Supplement, Feb. 26, 1944. C    |
| 1586a | Firing tests of ABN-7A magnetic fuze, by B. H. Rule and W. P. Huntley. [Dec. 31, 1942] IIC-5. C  | 1595 | Forward firing of 5"0, 3"5, and 2"25 aircraft rockets from A-26B aircraft. June 15 and July 15, 1945. JNC-27, 28. OSRD 2449, 2476. Title varies. R             |
| 1587  | Firing tests of GMC sample of DUKW projector, by A. S. Gould. Mar. 28, 1943. NMC-1.74. C   | 1596 | Forward firing of 11.75-inch aircraft rockets from A-26B aircraft. July 1, 1945. JNC-32. OSRD 2433. C  |
| 1587a | Firing tests of HHR fuse, by B. H. Rule and W. P. Huntley. [Nov. 25, 1942] IPC-15. C   | 1597 | Forward firing of 11"75 aircraft rockets from F4U-1D and F6F-5 aircraft. Jan. 27, 1945. JNC-29. OSRD 2357. Revisions 1-3. Apr. 28, July 2 and Aug. 15, 1945. C |
| 1588  | Firing tests on 15/16" extruded Ballistite; local intermediate report by W. H. Arnquist. Dec. 29, 1941. IGC-1.2. C                                     | 1598 | Forward firing of 11.75-inch aircraft rockets from P-38L aircraft. July 20, 1945. JNC-34. OSRD 2499. C   |
| 1589  | Flare specifications, by A. K. Billmeyer. Sept. 30, 1945. NOC-17.1. C  | 1599 | Forward firing of rocket projectiles from British aircraft (abstracted from British reports). June 16, 1943. MBE-18x. C  |
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| 1591  | Formulas for the spin produced by inclined jets; local intermediate report by Leverett Davis, jr. March 25, 1944. IPC-55. C                            | 1601 | Forward firing of rockets from P-47D aircraft. Jan. 2, Feb. 10 and 17, 1945. JNC-24-26. OSRD nos. 2333, 2347, 2382. Title varies. R                            |
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| 1593  | Forward firing of 3"5 aircraft rockets from TBF-1 and PV-1 aircraft. Nov. 6, 1943. JNC-9.2. C  |      |  |

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| 1605 | Free and restricted column behavior of some double-base propellants, by B. H. Sage. Dec. 30, 1945. JDC-92. C  | 1614 | Gravity drop tables. British 3"25 rocket motor no. 1 Mk 2 (11-lb cruciform) with American 3"5 and 5"0 bodies. May 25, 1944. UPC-4. OSRD 2112. R |
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| 1607 | Further investigation of partially colloided double-base powder in solventless extrusion, by B. H. Sage. Aug. 16, 1944. JDC-65. OSRD-2205. C                                | 1616 | Gunnery and tactical training with rocket targets, by J. Edson. Dec. 14, 1943. JNC-10. OSRD 3167. R   |
| 1608 | Further investigations conducted with the yaw machine; local intermediate report. Jan. 4, 1943. ILC-2. C  | 1617 | Gyroscopic orientation recorder, by S. Baker. Sept. 28, 1945. NOC-6.1. C  |
| 1609 | Further investigations of the underwater behavior of aircraft rockets, by I. S. Bowen, R. V. Adams and S. Rubin. June 26, 1944. JBC-27. OSRD 2152. C                        | 1618 | Handling of forward firing rocket equipment aboard carriers. Jan. 8, Feb. 26 and Mar. 28, 1944. JNC-13, 13.2. OSRD 3504. Title varies. C        |
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| 1611 | Gas malalignment and deflection-malalignment ratio for all types of BR fired from September 20, 1942 to April 1, 1943; local intermediate report by C. W. Snyder. IBC-23. C | 1620 | Heat transfer to nozzles used in jet propulsion equipment, by B. H. Sage. Sept. 30 and Oct. 20, 1942. JDC-20, A-56M. OSRD 951. C                |
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| 1623 [High velocity rockets] Weekly progress report. Feb. 8, 1942. PMC-1.15. C   | 1633 Impact and deceleration of the ASPC Mark 1 projectile and modified A.S. bomb, by B. H. Rule and W. P. Huntley. Feb. 10, 1943. JBC-15. C  |
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| 1625 Horn fuze tests, by W. P. Huntley, R. L. Noland, B. H. Rule and G. A. Spassky. July 8, 1943-June 17, 1944. IIC-16, 16.2-16.4. C                 | 1635 Impact decelerometers, by R. L. Noland, T. H. Wiancko, W. P. Huntley and B. H. Rule. Nov. 13, 1943 and Jan. 24, 1944. IHC-2, JHC-3. OSRD-3430. C   |
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| 1630 Ignition of the powder charge in an extrusion press, by B. H. Sage. May 5, 1943. IDC-33. C  | 1640 The influence of extrusion and subsequent storage upon the burning characteristics of Ballistite, by B. H. Sage. June 1 and Sept. 21, 1942. JDC-15, A-96. OSRD 895. C  |
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| 1632 Impact and deceleration of the ASB (mousetrap), by Bruce H. Rule and W. P. Huntley. [194-] IPC-12. C  |   |

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| 1644 | Influence of tricresylphosphate upon the burning characteristics of extruded grains of Ballistite, by B. H. Sage. July 10, 1942. JDC-16. C   | 1653 | Installation and use of barrage rocket projectors for tank lighters. May 28, 1943. JBC-16. C   |
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- 1689 Manufacture and performance of grains for use in a 2.5-inch reaction chamber; local intermediate report by B. H. Sage. Apr. 10, 1943. IDC-29. C
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- 2268 Detection of extrusion holes in OSPFT grains by means of x-rays, by R. E. Hunt. Nov. 30, 1945. W-162.10. C
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| 2271 | Determination of powder gas emissivities, by R. S. Craig and S. Solomon Penner. Oct. 4, 1944. C  | 2282 | Driver rocket improvements, by C. N. Hickman. Dec. 2, 1944. C  |
| 2272 | Determination of useful temperature range for Russian lot 1 in the 4½ in. Budd motor, by C. F. Bjork. June 10, 1943. C   | 2283 | Drop tests of radio fuzes for the 12 inch jet accelerated A.P. bombs; preliminary report by A. Kossiakoff. Dec. 29, 1942. C  |
| 2273 | Development of portable cordite operated gas generator for pressurizing M2-A2 flame throwers, by A. S. Collins and A. A. Nellis. July 12, 1945. C  | 2284 | Dry extrusion of double-base powder at Indian Head, I, by Howard E. Higbie. Dec. 7, 1942. A-123. OSRD 1100. II, Extrusion of solventless sheet powder of the Russian formulation. Jan. 26, 1943. A-133. OSRD 1226. C |
| 2274 | [Development of portable smokeless powder-operated gas generator for pressurizing M2-A2 flame throwers] Progress with project W-163 since Mar. 12, 1945, by A. S. Collins. Apr. 9, 1945. C | 2285 | [Dry extrusion of powders] Weekly progress reports by G. F. Padgett. Feb. 5-Mar. 11, 1944. R   |
| 2275 | Diffusion coefficient of acetone in double base powder, by S. S. Penner and S. Sherman. [194-] C   | 2286 | Dry extrusion of Western Cartridge ball powder, by Joseph J. Donovan. June 2, 1943. C  |
| 2276 | Diffusion of nitroglycerine in wrapped powder grains, by S. S. Penner and S. Sherman. Jan. 15, 1945. C   | 2287 | The effect of burning area of powder on the chamber pressure in rockets, by C. N. Hickman. Nov. 28, 1941. C  |
| 2278 | Discussion of work on jet propulsion projects, by C. N. Hickman. Nov. 3, 1941. C   | 2288 | The effect of burning time on the dispersion of rockets, by C. N. Hickman. Jan. 29, 1943. C  |
| 2279 | Dispersion flight tests of Budd 4.5 inch rockets, by Charles A. Boyd, D. W. Osborne and M. J. Walker. Oct. 14-Dec. 30, 1942. C   | 2289 | Effect of different igniter on maximum pressure in Revere 4.5" motors with 4.65 pounds of no. 14400 powder at 70°F, by Raymond L. Arnett. Jan. 10, 1944. C   |
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| 2291 | Effect of nitroglycerin and total volatile content on the burning characteristics of JPT powders; preliminary draft by Alfred Africano and M. J. Walker. Aug. 25, 1942. C   | 2298 | Effect of temperature gradient on the performance of ABL, J.A.T.O. Model II, by L. G. Bonner. Aug. 21, 1945. W-191. C   |
| 2292 | The effect of non-linear acceleration on the dispersion of rockets; preliminary draft by C. N. Hickman. Jan. 7, 1943. C   | 2299 | The effect of the initial velocity of a rocket on the kinetic energy given to it by the jet, by C. N. Hickman. [194-] C   |
| 2293 | Effect of nozzle contour on the performance of ABL JATO Model II and a new nozzle design for this model, by L. G. Bonner. Aug. 22, 1945. W-191. C   | 2300 | The effect of treatment with p-phenylenediamine on the ignition of powder grains, by M. N. Donin. July 11, 1945. P-53.1. C  |
| 2294 | Effect of 1½ percent KNO <sub>3</sub> in 7/8 in. x 1¼ in. Russian powder 4107.1, by Alfred Africano. Nov. 27, 1942. C   | 2301 | Effect of ultrasonic irradiation on powder strength, by Dorothy Reinhard, Barbara Smith and Howard Higbie. July 13, 1945. P-80. C   |
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| 2296 | The effect of pressure and temperature on the rate of burning of double-base powders of different compositions, by William H. Avery and Roy E. Hunt. Sept. 3, 1943. C   | 2303 | Efficiency of rockets compared to guns, by C. N. Hickman. Sept. 5, 1942. Supplement to OSRD Catalog no. 2506. C   |
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| 2308 | Establishment of temperature limits for 12 inch AP jet propelled bomb, by Leo Maas, jr. June 2, 1943. C   | 2318 | Extrusion of new formulations, by G. F. Padgett. Aug. 21, 1945. P-71. C  |
| 2310 | Expanded program for conventional 4.2 chemical mortar, by C. N. Hickman. Apr. 30, 1945. C   | 2319 | [Extrusion of powders] Progress reports of Group 2A7, by Howard Higbie and G. F. Padgett. May 15, 1944-Jan. 24, 1945. C  |
| 2311 | Experimental arrangement for obtaining pressure, travel and time relations for the 4.2 in. chemical mortar, by Arthur Russell Taylor Denues. Mar. 16, 1943. C | 2320 | The extrusion of solventless sheet powder at Indian Head, by Joseph J. Donovan. June 15, 1943. C   |
| 2312 | Experimental powders from Kenvil, by W. H. Avery. Aug. 4, 1945. P-100. C  | 2321 | The extrusion of solventless sheet powder of the Hercules trench mortar sheet formula, by G. F. Padgett. Nov. 9, 1942. C   |
| 2313 | Experiments with a thinner web propellant for use in the 4½ inch rocket projectile; interim report by R. E. Gibson. Apr. 27, 1943. C                          | 2322 | Extrusions of double-base powder at Indian Head, by G. F. Padgett. July 20, 1943. A-203. OSRD 1658. R  |
| 2314 | Extrusion and impact testing of DINA powders, by G. F. Padgett. Dec. 27, 1943. C  | 2323 | Factors to be considered in design of rocket having annular jet, by C. N. Hickman. Dec. 14, 1942. C  |
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- 2328 Fireproofing of fabric for assisted take off, by Leo Maas, jr. July 16, 1942. C
- 2329 Firing mechanisms for 3¼ inch rockets. [194-] C
- 2330 Firing of G-47 powder in the Kleinschmidt chamber, by A. J. Madden and J. A. Fineman. Dec. 30, 1944. C
- 2331 Firing tests of the jet propelled parachute flares, by W. E. Jeremiah. July 18, 1942. C
- 2332 Firing tests on long "A" charges, by C. N. Hickman and Alfred Africano. Jan. 3, Feb. 7 and Mar. 3, 1942. Title varies. C
- 2333 Fissure tests of (a) Sunflower Plant powder, lot 1 (b) 0.02 percent Prussian blue powder, HES 4238.1C (c) 0.05 percent Prussian blue powder, HES 4239.1C, by A. Bernstein. May 18, 1943. C
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- 2340 Flow of propellant gases in rockets, by J. O. Hirschfelder. Aug. 25, 1942. C
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- 2342 4.2" match-type rocket driver, by C. N. Hickman. May 18, 1945. C
- 2343 4.2 inch mortar recoilless attachment, designs no. 2 and no. 3, by C. N. Hickman. Nov. 7, 1943. C
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| 2351 | The functioning of copper ball gages with and without grease, by C. F. Bjork. May 18, 1943. C   | 2361 | Heats of explosion, by Joseph J. Donovan. Nov. 1, 1944. C  |
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| 2690 | Rocket developments; summary report [of 16 final OSRD reports] by S. R. Avella. Feb. 15, 1946. OSRD 6170. C                        |      | UNIVERSITY OF WISCONSIN, Madison, Wis. OEMsr-762<br>Projects OD-14, OD-26   |
| 2691 | Rocket launchers for use on aircraft; final report by J. M. Dietz, C. A. Hasslacher and J. H. Mogler. Jan. 3, 1946. OSRD 6162. C   | 2705 | Studies of the mechanism of burning of double-base rocket propellants; final report by Farrington Daniels, R. E. Gluyas, N. F. Hall, S. S. Penner and R. E. Wilfong [Jan. 1945] A-485. OSRD-6559. R |
| 2694 | Basic flow properties of powders of various compositions, by Robert Burns. Jan. 22, 1943. A-134. OSRD 1212. C                      | 2706 | Absorption coefficients of A-77 powders, by S. S. Penner. Nov. 14, 1944. C  |
| 2695 | Development of O.F.H.C. copper pressure balls for use in small arms, rocket launchers, and mortars. Aug. 28, 1944. C               | 2707 | Absorption coefficients 77 e and f, by Farrington Daniels. June 24, 1944. C   |
| 2697 | Instructions for use of the ribbon-frame camera, by M. J. Walker. Feb. 16, 1944. A-251. OSRD 3280. R                               | 2708 | The absorption of radiation between $0.5\mu$ and $5.5\mu$ by double base powder with special reference to the A-77 series, by S. S. Penner and Farrington Daniels. July 5, 1944. C                  |
| 2698 | Jungle launchers, by R. F. Mallina. Jan. 1, 1944. A-81M. OSRD 3083. C  | 2709 | Absorption spectra of the A-77 powders; preliminary report by Farrington Daniels. June 3, 1944. C   |
| 2701 | The ribbon-frame camera, by Frank Reck. July 9, 1943. A-196. OSRD 1605. R  | 2710 | Additional work on the prevention of fissuring by sweeping out air with carbon dioxide, by Farrington Daniels and Robert E. Wilfong. July 15, 1943. C   |
| 2702 | Rocket firing mechanism for 56 rocket launcher, by D. D. Miller. Feb. 5, 1945. C   | 2711 | Calculation of mass emissivities from restricted burning data, by S. S. Penner. Nov. 30, 1944. C  |
| 2703 | "Study of firing control circuit for mine clearing device proposed by the Engineer Board of the Corps of Engineers." [July 1945] C |      |   |

- 2712 The elimination of fissures in powder by displacing the air in the presses with carbon dioxide, by Farrington Daniels and Robert E. Wilfong. [June 21, 1943] and July 5, 1943. Title varies. C
- 2713 Emission spectrum of salted powder and influence of radiation on burning rates, by Farrington Daniels. Jan. 29, 1944. C
- 2714 Hypothesis for burning mechanism with special reference to double base powders in jet propulsion motors, by Farrington Daniels. July 24, 1943. C
- 2715 Hypothesis for the mechanism of burning powder, by Farrington Daniels. Sept. 25, 1943. C
- 2716 Infra-red emission and absorption spectra of double base powder, by Forrest S. Mortimer, Farrington Daniels and C. Keith McLane. June 24 and Sept. 18, 1943. C
- 2717 [Letters from Forrest S. Mortimer to Prof. Brice L. Crawford] Feb. 4, 1943. R
- 2718 The mechanism of powder burning; summary by Farrington Daniels, Robert E. Wilfong, Forrest S. Mortimer, C. Keith McLane, Norman L. Rosenberg, Carl W. Schuler and Jacob Sedlet. Dec. 18, 1943. C
- 2720 Recommendation of manganese dioxide as an ingredient in propellants, and summary report, by Farrington Daniels. July 22, 1944. C
- 2721 A small aneroid calorimeter for determining heats of explosion; preliminary report by Norris F. Hall and Farrington Daniels. Aug. 25, 1944. C
- 2722 [Studies of the mechanism of burning of double-base rocket propellants] Progress reports by Farrington Daniels. Jan. 1-Oct. 1, 1944. C
- 2724 Theories of burning of double base powder, by Farrington Daniels. Feb. 28, 1944. C
- 2725 The x-ray detection of imperfections in double base powder; preliminary report by Farrington Daniels. Oct. 24, 1942. C
- DIVISION AND MISCELLANEOUS
- 2727 Annotated bibliography of NDRC technical reports and memorandums of Division 3. Sept. 20, 1944 and May 1, 1945. A-101M, 107M. OSRD-4152C, 4830C. C
- 2735 A brief historical account of the development of the fins for the 4½" army rocket, by C. N. Hickman. May 30, 1944. With this is bound: Design of the tail end of the 4½" rocket, by C. F. Spahn. May 8, 1944. C
- 2736 Catalog of 16 mm films; film library of Division 3 NDRC, edited by F. W. Cummings and E. B. Bradford. [Apr. 23, 1945] C
- 2737 Derivations of formulas used in computing effective gas velocity and rocket velocity from measured impulse, by Jesse W. M. DuMond. [1944] Letter no. A-1L. C
- 2738 11"75 rocket ammunition; description and instructions for use (Preliminary). July 13, 1944. Ordnance pamphlet no. 1227. C
- 2739 4.2-inch recoilless chemical mortar E34R1. Dec. 21, 1944. TB CW 24. C

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|--|---|
| 2740 Functions and facilities of contractors; report by Section H. July 15, 1944. C  | 2745 Photographing rockets at right angles to their line of flight, by C. N. Hickman. [1942] and May 23, 1942. Letter no. A-2L. C                       |
| 2742 Memorandum summarizing tests on electric condenser type fuse; intermediate report. Apr. 2, 1943. NY-1. C  | 2748 Rocket launchers, Mark 17 and Mark 17, Model 1. Description and instructions for use. Aug. 30, 1944. Ordnance pamphlet no. 1133. R                 |
| 2743 News letter; items of interest on current rocket developments, edited by P. T. Kirwan. Vol. 3, no. 12. June 25, 1945. OSRD 5272. R  | 2749 7.2" rocket launchers Mark 20, Mark 22, and ammunition. Nov. 30, 1943. Ordnance pamphlet no. 1002. First revision. C                               |
| 2744 News letters; items of interest on current rocket developments, edited by P. T. Kirwan. Vol. 1. Weekly news letters, nos. 8-42. Vol. 2. Weekly news letters, nos. 1-30; semi-monthly news letters, nos. 31-40. Vol. 3. Semi-monthly news letters, nos. 1-11, 13-14. May 3, 1943-July 25, 1945. OSRD-nos. 4120, 4163, 4242a, 4271, 4322, 4370, 4437, 4491, 4582, 4641, 4686, 4749, 4802, 4858, 4912, 4958, 5035, 5112, 5182, 5327, 5442. Title varies. C | 2750 Special fuzes for rockets, projector charges and miscellaneous munitions. June 13, 1944. Ordnance pamphlet no. 1017. First revision. R             |
|  | 2753 Summary of rocket applications being developed by Division A of the National Defense Research Committee, by Alexander Kossiakoff. July 20, 1942. C |

Item numbers which include a letter, i.e. 1740a, indicate reports which were received too late to be included in the original numbering.

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OEMsr-337	Hercules Powder Company	2638-2642
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OEMsr-716	University of Minnesota	2644-2669
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404	1823	2117	2006	2185	1837
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563	1279		1687	2187	1894
665	2446	2119	1647	2188	1396
673	2346	2120	1855	2189	1529
691	2389	2121	1262	2190	1462
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798	1882	2124	2006	2193	1262
803	1277	2125	1894	2194	1798
805	1788	2126	1482	2195	1837
815	1320	2127	1855	2196	2006
842	1603	2128	1262	2197	1380
866	1338	2129	1798	2198	1498
872	1987	2130	1837	2199	1855
888	2334	2131	2006	2200	1262
895	1640	2132	1894	2201	1798
896	1979	2133	1289	2202	1837
911	1987	2134	1497	2203	2006
920	2597	2135	1348	2204	1649
924	2552	2136	1855	2205	1607
951	1620	2137	1262	2206	1838
965	2498	2138	1798	2207	1955
966	1641	2139	1837	2208	1262
992	2390	2140	2006	2209	1798
1022	2621	2141	1855	2210	1837
107	2674	2142	1262	2211	2006
1082	1972	2143	1798	2212	1894
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1136	2673	2146	1348	2215	1798
1142	2231	2147	1855	2216	1837
1151	2107	2148	1262	2217	2006
1152	2100	2149	1798	2218	1855
1156	2535	2150	1837	2219	1262
1171	1521	2151	2006	2220	1798
1183	1561	2152	1609	2221	1837
1188	2665	2153	1380	2222	2006
1191	1765	2154	1855	2223	2036
1212	2	2155	1262	2224	1251
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1242	2000	2157	1837	2226	1380
1265	2105	2158	2006	2227	1260
1266	1495	2159	1894	2228	1855
1305	1554	2160	2005	2229	1262
1370	2657	2161	2054	2230	1798
1461	1555	2162	1855	2231	1837
1605	2701	2163	1262	2232	2006
1623	2246	2164	1798	2233	1894
1632	1464	2165	1837	2234	1649
1658	2322	2166	2006	2235	1324
1846	2643	2167	1408	2236	1656
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1993	2297	2169	1262	2238	1262
2069	2400	2170	1798	2239	1798
2101	1856	2171	1837	2240	1837
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2104	2006	2174	1870	2243	1380
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2252	1837	2321	1855	2390	1855
2253	2006	2322	1262	2391	1262
2254	1308	2323	1798	2392	1798
2255	2088	2324	1837	2393	1837
2256	1380	2325	2006	2394	2006
2257	1855	2326	1496	2395	1547
2258	1262	2327	1380	2396	1855
2259	1798	2328	1855	2397	1262
2260	1837	2329	1262	2398	1798
2261	2006	2330	1798	2399	1837
2262	1894	2331	1837	2400	2006
2263	1343	2332	2006	2401	1855
2264	1590	2333	1601	2402	1262
2265	1855	2334	1855	2403	1798
2266	1262	2335	1262	2404	1837
2267	1798	2336	1798	2405	2006
2268	1837	2337	1837	2406	1380
2269	2006	2338	2006	2407	1410
2270	1316	2339	2056	2408	1763
2271	1567	2340	1855	2409	1661
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2274	1963	2343	1837	2412	1798
2275	1859	2344	2006	2413	1837
2276	1855	2345	1838	2414	2006
2277	1262	2346	2007	2415	1248
2278	1798	2347	1601	2416	1855
2279	1837	2348	1631	2417	1262
2280	2006	2349	1686	2418	1798
2281	2063	2350	1387	2419	1837
2282	2087	2351	1855	2420	2006
2283	1380	2352	1262	2421	1650
2284	1523	2353	1798	2422	1840
2285	1855	2354	1837	2423	1855
2286	1262	2355	2006	2424	1262
2287	1798	2356	1894	2425	1798
2288	1837	2357	1597	2426	1837
2289	2006	2358	1380	2427	2006
2290	2015	2359	1855	2428	1784
2291	1415	2360	1262	2429	1380
2292	1855	2361	1798	2431	1659
2293	1262	2362	1837	2432	1380
2294	1798	2363	2006	2433	1596
2295	1837	2364	1668	2434	1855
2296	2006	2365	1814	2435	1262
2297	1894	2366	1884	2436	1798
2298	1459	2367	1855	2437	1837
2299	1855	2368	1262	2438	2009
2300	1262	2369	1798	2439	2031
2301	1798	2370	1837	2440	1250
2302	1837	2371	2006	2441	1855
2303	2006	2372	1759	2442	1262
2304	1380	2373	1380	2443	1798
2305	2024	2374	1501	2444	1837
2306	1855	2375	1855	2445	2009
2307	1262	2376	1262	2446	2031
2308	1798	2377	1798	2447	1380
2309	1837	2378	1837	2448	1841
2310	2006	2379	2006	2449	1595
2311	1652	2380	1496	2450	1380
2312	2012	2381	1938	2451	1855
2313	1416	2382	1601	2452	1262
2314	2014	2383	1651	2453	1798
2315	1855	2384	1855	2454	1837
2316	1262	2385	1262	2455	2009
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2458	1698	2532	1566	3327	1837
2459	1380	2533	1850	3328	2006
2460	1855	2534	1373	3341	1856
2461	1262	2535	1448	3361	1708
2462	1798	2536	1811	3380	1856
2463	1837	2537	1418	3381	1798
2464	2009	2538	1839	3382	1837
2465	2031	2539	1444	3383	2006
2466	1380	2540	2011	3391	1856
2467	1432	2541	1901	3392	1798
2468	1973	2542	1399	3393	2006
2469	1855	2543	1637	3394	1837
2470	1262	2544	1240	3429	2218
2471	1798	2545	1245	3430	1635
2472	1837	2546	1244	3431	1286
2473	2009	2547	1241	3432	1823
2474	2031	2548	1246	3438	1856
2475	2037	2549	1242	3439	1944
2476	1595	2550	1239	3440	2027
2477	1855	2551	1247	3457	1262
2478	1262	2552	1243	3458	1594
2479	1798	2553	1419	3468	1798
2480	1837	3050	1751	3469	1837
2481	2009	3073	1877	3470	2006
2482	2031	3082	2704	3471	1894
2483	1863	3083	2698	3472	1798
2484	1537	3091	1856	3473	1837
2485	1380	3092	1798	3474	2006
2486	1855	3093	1837	3492	1455
2487	1262	3094	2006	3493	1798
2488	1798	3095	1894	3494	1837
2489	1837	3096	1289	3495	2006
2490	2009	3145	1856	3496	1894
2491	2031	3146	1798	3497	1289
2492	1836	3147	1837	3500	1856
2493	1855	3167	1616	3502	1435
2494	1262	3188	1856	3503	1667
2495	1798	3189	1798	3504	1618
2496	1837	3190	1837	3517	1856
2497	2009	3191	2006	3518	1798
2498	2031	3192	1289	3519	1837
2499	1598	3203	1887	3520	2006
2501	1423	3221	1856	3527	1856
2502	1380	3222	1856	3528	1798
2503	1380	3223	1798	3529	1837
2505	1855	3224	1837	3530	2006
2506	1262	3225	2006	3531	1894
2507	1798	3226	1289	3544	2660
2508	2009	3234	1898	3563	1251
2509	2031	3250	1798	3570	1856
2510	1855	3251	1837	3571	1798
2511	1262	3252	2006	3572	1837
2512	1798	3253	1894	3573	2006
2513	2009	3270	1463	3592	1404
2514	2031	3271	1370	3609	1856
2515	1305	3275	1289	3610	1798
2516	1679	3276	1894	3611	1837
2517	1669	3277	2006	3612	2006
2518	1342	3278	1837	3615	1409
2519	1660	3279	1798	3634	1485
2520	1855	3280	2697	3635	1865
2521	1262	3289	1856	3737	1856
2522	1798	3290	1330	3638	1798
2523	2009	3301	1862	3639	1837
2524	2031	3302	1405	3640	2006
2525	1849	3304	1666	3644	1730
2526	1847	3305	1798	3645	2000
2527	1994	3306	1837	3646	1436
2528	1548	3307	2006	3647	1894
2529	1643	3308	1894	3648	2006
2530	1255	3309	1856	3649	1798

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3684	1798	4437	2744	5798	2188
3685	1837	4443	2507	5799	2190
3686	2006	4466	2580	5800	2183
3687	1894	4471	2507	5801	2191
3690	1893	4491	2744	5802	2194
3705	1386	4495	2507	5805	2175
3707	1856	4524	2507	5806	2181
3708	1798	4568	2297	5808	2156
3709	1837	4569	2513	5812	2120
3710	2006	4577	2507	5814	2161
3719	1685	4582	2744	5816	2132
3720	1524	4611	2507	5818	2174
3727	2507	4640	2507	5820	2195
3728	2507	4641	2744	5821	2122
3729	2507	4665	2507	5822	2192
3730	2507	4686	2744	5824	2146
3731	2507	4687	2507	5827	2123
3732	2507	4694	2410	5829	2127
3733	2507	4719	2507	5830	2160
3734	2507	4749	2744	5831	2149
3735	2507	4802	2744	5832	2152
3736	1348	4803	2507	5833	2134
3737	1798	4828	2507	5834	2187
3738	1837	4830c	2727	5837	2204
3739	2006	4858	2744	5841	2133
3740	1856	4892	2507	5844	2145
3764	1262	4908	2507	5845	2177
3765	1798	4912	2744	5851	2155
3766	1837	4939	2507	5852	2173
3767	2006	4942	2297	5855	2200
3788	2507	4958	2744	5879	2170
3790	2085	4972	2507		2261
3826	2507	5009	2507	5880	2138
3831	2507	5035	2744	5881	2179
3849	2507	5037	2507	5882	2129
3860	2507	5061	2507	5883	2186
3878	1992	5100	2507	5887	2206a
3879	2507	5112	2744	5889	2147
3880	2373	5130	2507	5890	2182
3887	1637	5170	2507	5891	2130
3901	2507	5182	2744	5893	2164
3931	2507	5193	2507	5897	2208
3965	2507	5218	2507	5932	2201
3986	2507	5255	2507	6133	1221
3992	2511	5272	2743	6136	1203
4021	2507	5292	2507	6137	1222
4041	2507	5316	2507	6138	1212
4061	2507	5327	2744	6139	1211
4088	2507	5394	2453	6140	1208
4120	2744	5442	2744	6141	1210
4130	2507	5548	2494	6142	1213
4137	2507	5589	2142	6144	1206
4152c	2727	5624	2119	6145	1204
4163	2744	5654	2207	6146	1219
4164	2507	5761	2166	6148	1207
4201	2507	5776	2143	6149	1218
4227	2507	5779	2206	6150	1205
4242a	2744	5780	2154	6151	1223
4248	2507	5781	2176	6153	1220
4271	2744	5784	2139	6155	2687
4274	2507	5785	2141	6158	2689
4275	1516	5786	2137	6162	2691
4295	2507	5788	2135	6164	2679
4312	2507	5789	2150	6166	2685
4322	2744	5790	2136	6170	2690
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