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(10) LESTER L. MILLER, JR.

(11) 13 OCTOBER 1976

(12) 9p.

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This inclusion in the special bibliography series is intended to introduce material holdings of the Morris Swett Library which cover the development and use of proximity fuzes. Holdings are considered under the categories of books, periodical articles, and vertical file materials. The latter class of materials range from the most transient to the archival in nature.

The proximity fuze was secretly developed through the joint efforts of the U.S. Army, Navy, and the National Defense Research Committee early in the world war period. The fuze was designed to operate when it came under the influence of a target by detonating a charge. Control could be effected by radar, photoelectric cells, or other devices. One variety of the proximity fuze is the variable-time (VT) fuze. This fuze was first used in combat on 5 January 1943 when the U.S. Navy's cruiser Helena shot down a Japanese airplane. The fuze proved very useful in the defense of England from V-1 attack, and in the Ardennes Forest offensive of Von Rundstedt. The development of the proximity fuze enabled artillery, ships, and aircraft to fire with a greatly improved hit probability as the problem of target proximation was thereby resolved.

This bibliography is not intended to cover the subject in an exhaustive sense. Inclusion of an item, or accidental ommision, does not imply USAFAS indorsement or sanction of the compiler's view, nor does it guarantee accuracy of content. Comment and criticism concerning this list is solicited. Too, the listing can serve as a checklist for materials held by library collections. Arrangement of the bibliography is by the format of material.

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BOOKS

UF23
B2
Ref

Barnes, G.M. Weapons of World War II. New York, NY: Van Nostrand, c1947.

UH360
B6

Boyce, Joseph Canon. New Weapons for Air Warfare: Fire-Control Equipment, Proximity Fuzes, and Guided Missiles. Boston, Ma: Little, Brown, c1947.

UF520
C7

Comparato, Frank E. Age of Great Guns, Cannon Kings and Cannoneers Who Forged the Firepower of Artillery. Harrisburg, Pa: Stackpole Co., c1965.

UL400.71
P7G71

Great Britain. War Office. Working Instructions for Variable Time Fuzes. London, Eng., c1946.

UL408.41
G3H7
Ref

Hogg, Ian V. German Secret Weapons of World War II. New York, NY: Arco Pub Co., c1970.

UL400.71
P7B2

Johns Hopkins University. Applied Physics Laboratory. The Use of VT Fuzes in Howitzers and Guns against Personnel, by Ralph B. Baldwin, and Ione D. V. Berkley. Silver Springs, Md: the Univ., c1946 (?).

U15
J7

Johns Hopkins University. Operations Research Office. Effectiveness of the 127/60mm (MAA) Weapon, by John E. Koczera, et al, Tech Memo ORO T-213, December 4, 1952, c1952.

UA25.5
A52 Fo

U.S. Army. Forces in the European Theater. General Board. Report on Study of Field Artillery Gunnery, study #64, c1945 (?).

UL501.31
U5

U.S. Army. Ground Forces Board. Metro Troubles, by COL W. F. Millice, AGFB, Rpt #537, July 3, 1945, c1945.

D769.27
(10th)
A5
1945
O/S

U.S. Army. X Corps. Historical Account of the Mindanao Operation, X Corps Artillery, 17 April 1945 - 30 June 1945, by Brig. Gen. Harry McK. Roper, c1945.

U419
P2A5

U.S. Army. Ordnance School. VT Fuzes, Pam 15, Aberdeen Proving Ground, Md, July, 1949, c1949.

PERIODICALS, MILITARY

UF1 W8	"Artillery Fuzes," by MAJ R. J. Lewendon, Journal of the Royal Artillery, 81:30-42, Jan, 1954.
UF157.2544 U53	"Casualty Rates from VT Fuzed 105mm Shell," Artillery Information Service Memorandum, 8:22-25, May, 1945.
UF157.2544 U53	"Combat Report on the Pozit (VT) Fuze," U.S. Army, 1st Army, Artillery Information Service Memorandum, 8:13-20, May, 1945.
UF1 A8	"Electronic Fuze Research: Role of the Ordnance Division," by R.L. Eichberg, Ordnance, 36:839-842, Mar, 1952.
UC463 D3	"Fuze, VT, M92; Fuze, VT, M93; Fuze, VT, M94; and Fuze, VT, M95," Development, 3:18-23, Jan, 1946.
UD7 I 5	"Infantry and VT Fires," by LTC Bruce Palmer, Jr., Infantry School Quarterly, 37:7-15, Oct, 1950.
UF1 C7	"New Weapons - New Tactics, the VT Fuze Has Created Vast Problems of Protection," by LTC F. P. Henderson, Coast Artillery Journal, 90:37-38, Nov-Dec, 1947.
D769.255 E916	"Plan for the Use of Pozit Fuze," U.S. Army, E.T.O., Immediate Report, 48:1, Feb 7, 1945.
UF157.2544 U53	"Pozit Fires - Safety to Aircraft," U.S. Army, 1st Army, Artillery Information Service Memorandum, 8:21-22, May, 1945.
D769.255 E916	"Pozit Warning Systems," U.S. Army, E.T.O., Immediate Report, 45:1, Feb 4, 1945.
VE1 M3	"The Proximity Fuze," by COL C.H.M. Roberts, Marine Corps Gazette, 30:55-57, Jul, 1946.
*UL400.71 P7P5 Vert File	"The Radio Electric Proximity Fuze," Przeglad Artyleryjski, Jul-Aug, 1948.
UA600 A7	"The Radio Proximity Fuze," by H.M. Bonner, Canadian Army Journal, 1:19-24, Mar, 1948.
UF1 A8	"The 'Seeing Eye' Fuze," by Frank A. Zupa, Field Artillery Journal, 37:291-293, Sep, 1947.

U1
A9 "The Tactical Employment of the Variable Time Fuze," Australian Army Journal, 4:34-36, Dec, 1948.

UF1
C7 "A Trial Shot for the VT Fuzes," by COL Arthur H. Bender, Anti-Aircraft Journal, 95:27-28, Jan-Feb, 1952.

U1
A9 "The Variable Time Fuze for Use with Antiaircraft Equipment," by CPT R.C. Baker, Australian Army Journal, 3:15-18, Oct-Nov, 1948.

UF1
A8 "The VT Fuze; an Outstanding American Secret Weapon," by COL Harold S. Morton, Army Ordnance, 30:43-46, Jan, 1946.

VE1
M3 "The VT Fuze Versus Amphibious Operations," by LTC Frederick P. Henderson, Marine Corps Gazette, 31:50-56, May, 1947.

VERTICAL FILES

*QC1
U52 Hinman, Wilber Stanley, et al. Radio Proximity Fuze Design. National Bureau of Standards, Washington, DC: US GPO, c1946.

*UL400.7
C5 U.S. Army. European Theater of Operations. Pozit Fuzes, by James W. Clyburn, et al, Hq ETO, Rpt #457, December 15, 1944, c1944.

*UL400.7
U5 ----------. Pozit Warning Systems for Air Op's. Hq ETO, Rpt #695, March 2, 1945, c1945.

*UL400.71
P7U5 ----------. Premature Bursts with Pozit Fuze, by COL Milo G. Cary, Hq ETO, Rpt #1095, July 14, 1945, c1945.

*UL400.71
P7U5 ----------. Report of First Reported Premature of a Pozit Fuze, by T/4 Clyde C. Franklin, Hq ETO, USA, c1945.

*UL400.71
P7U51 ----------. VT Fuze, by COL Milo G. Cary, Hq ETO, Rpt #975, May 18, 1945, c1945.

*UL400.71
P7U5 ----------. VT Fuzes, by COL James D. O'Brien, Hq ETO, USA, c1945.

*UL502.9
A3W69 U.S. Army Field Artillery School. Report of Special Observer - European and Mediterranean Theaters of Operations, 15 March - 30 April, 1945, by COL Gordon J. Wolf, Dept. of Air Tng, Ft Sill, Ok: the Schl, c1945.

*UC470.3
A6G3 U.S. Army Field Forces. Board No. 1. Fuze, CVT, T227E2, Proj. # FA 1154, Ft Sill, Ok, c1954.

*UC470.3 A6G3 U.S. Army Field Forces. Board No. 1. Report of Study of 1946-47 Winter Test of Variable, Mechanical, and Powder Train Time Fuzes, by Task Forces Frigid, Frost, and Williwaw, Proj. # FAWT 4647-21, Ft Bragg, NC, October 15, 1947, c1947.

*UC470.3 A6G3 ----------. Test of Fuze, CVT, T226, Proj. # FA4952, Ft Bragg, NC, June 23, 1953, c1953.

*UC470.3 A62G3 U.S. Army Field Forces. Board No. 3. Fuze, VT, T226, Proj. #2256, Ft Benning, Ga, June 26, 1953, c1953.

*UC470.3 A62G3 ----------. Test of T178E1, VT Fuze on 81mm Mortar Shell, T28E6, Proj. #2515, Ft Benning, Ga, September 17, 1954, c1954.

*UC470.3 A63G3 U.S. Army Field Forces. Board No. 4. Report of Test of Fuze VT T73E9, Proj. # AA553, Ft Bliss, Tx, February 4, 1954, c1954.

*UC470.3 A63G3 ----------. Service Test of Fuze VT M504AZ, Proj. # AA453, Ft Bliss, Tx, February 8, 1954.

*UC470.3 A63G3 ----------. Service Test of Fuze VT T225, Proj. # AA753, Ft Bliss, TX, October 12, 1954, c1954.

*UC470.3 A63G3 ----------. Service Test of Fuze VT T226E2,Proj. # AA653, Ft Bliss, TX, January 14, 1954, c1954.

*UC470.3 A63G31 ----------. Service Test of Proximity Fuzes. Ft Bliss, Tx, September 14, 1948, c1953.

*UC470.3 A63G3 ----------. Test of Fuze VT T75E6, and VTM504A1, Proj. # AA1148, Ft Bliss, Tx, January 14, 1954, c1954.

*UC470.3 A3G3 U.S. Army Field Forces. Liaison Office. Test of Booster T35E7, Assembled to Fuze, PD, T177E2, Proj. # TA 1-2706, DA 505-02-023, Aberdeen, Md, October 17, 1952, c1952.

*UL400.71 P7U52 U.S. Army. First Army. Report of Pozit Fuze Team on TD with 1st U.S. Army, c1945.

*UL400.71 P7U5 U.S. Army Ground Forces Board. Effectiveness of VT Fuze, by COL F. H. Boucher, Rpt. # 719, ETO, April 18, 1945, c1945.

*UL400.71 P7U5 ----------. Effectivenss of VT Fuzes Used in 90mm Antiaircraft Artillery Ammunition, by COL Milo G. Cary, Rpt. # 1022, ETO, June 18, 1945, c1945.

*D769.3 (10th) M6 1945 — U.S. Army Ground Forces Board. Field Artillery; Operations of the 10th Mountain Division, by COL W. F. Millice, et al, Mediterranean Theater of Operations, Rpt. # 354, March 24, 1945, c1945.

*UL400.7 C5 — ----------. Pozit Fuze, by COL James W. Clyburn, Hq ETO, Rpt. # 597, January 31, 1945, c1945.

*UL400.71 P7U5 — ----------. Pozit Fuzes, by COL F. H. Boucher, Hq ETO, Rpt, # 971, May 19, 1945, c1945.

*UC470.3 A6G3 — U.S. Army Ground Forces Board No. 1. Desert Tests, 1947 - Fuzes, VT M97 (T 80E9), Proj. # FAST 47-1, Ft Bragg, NC, August 28, 1947, c1947.

*UL400.71 P7U5 — U.S. Army. Mediterranean Theater of Operations. Variable Time Fuzes, by Walter G. Finch, et al, c1945.

*UL400.7 U5 — U.S. Army. II Corps Artillery. AOP's and the Variable Time (VT) Fuze, Op Memo # 17, January 13, 1945.

*UL400.71 P7U5 — U.S. Army. XX Corps. Artillery Firing with VT (Pozit) Fuzes, c1945.

*UL400.7 U5 — U.S. Army. Twelfth Army Group. Operational Experience with Pozit Fuze, U.S.A.G.F.Bd., Rpt # 702, March 6, 1945.

*UL400.7 U5 — ----------. Pozit Fuzes, c1944.

*UC470.3 A63G3 — U.S. Continental Army Command. Board No. 4. CONARC - U.S.A.F. Test of the AN/ALT-7 Employed Against Proximity Fuzes, Proj. # AA-1153, Ft Bliss, Tx, c1956.

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER SB38	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) THE DEVELOPMENT AND USE OF PROXIMITY FUZES; A BIBLIOGRAPHY		5. TYPE OF REPORT & PERIOD COVERED final report
		6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(s) Mr. Lester L. Miller, Jr.		8. CONTRACT OR GRANT NUMBER(s)
9. PERFORMING ORGANIZATION NAME AND ADDRESS		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
11. CONTROLLING OFFICE NAME AND ADDRESS		12. REPORT DATE 13 Oct 1976
		13. NUMBER OF PAGES 8
14. MONITORING AGENCY NAME & ADDRESS(if different from Controlling Office)		15. SECURITY CLASS. (of this report) unclassified
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE

16. DISTRIBUTION STATEMENT (of this Report)

This report is approved for public release; distribution unlimited

17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)

18. SUPPLEMENTARY NOTES

None

19. KEY WORDS (Continue on reverse side if necessary and identify by block number)

BIBLIOGRAPHIES; PROXIMITY FUZE

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With emphasis on the developmental phases, this bibliography cites books, military periodicals, and vertical file materials which cover the WWII evolving of this important tool of war: Proximity Fuzes.

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