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1944 saw the completion of the Navy requirements on Mk. 6 Parachute Flares. After cut backs had been given affect this resulted in our being primarily a Firing Device manufacturer with a production of under 1,000,000 monthly. The first of the year we passed 4,000,000 monthly, the last month of our fiscal year.

PRODUCTION ACHIEVEMENT ON FIRING DEVICES

February, 1944	923,576
March, 1944	1,316,770
April, 1944	1,151,390
May, 1944	1,418,060
June, 1944	1,972,931
July, 1944	2,027,972
August, 1944	2,694,776
September, 1944	2,124,102
October, 1944	2,397,350
November 1944	2,934,955
December, 1944	3,355,269
January, 1945	<u>4,194,950</u>
Grand Total	26,512,101

Terminations started the latter part of the year and run-outs and non-reoccurrence of orders were predicted. It became evident that we would have to pass thru a 3rd reconversion or go out of business.

TERMINATIONS - 1944

		<u>ITEM</u>	<u>PIECES</u>	<u>DOLLARS</u>
5/27/44	CHEMICAL WARFARE SERVICE W19-025-CWS-68	Firing Pin	1,081,230	23,127.
10/11/44	FISHER BODY, Detroit P.O. NOLD 11302	B-7000 Motors	565	3,356.
10/14/44	SPRINGFIELD ORD. DIST. W19-059-Ord-1482	M7 Mine Comb.	549,900	432,771.
9/28/44	M. BACKES & SONS, Wallingford P.O. 2753	Base	167,656	19,112.
	P.O. 2752	Collar	185,899	9,294.
		Pull Wire	185,417	4,450.
10/31/44	OFFICE OF STRATEGIC SER. OSS-431	SRA-3 Signal Relay	593,620	199,456.
11/3/44	U.S. ENGINEERS, BOSTON W37-018-eng(MSP)569	Delay type M1	1,100,000	470,800.
11/7/44	UNION PARTS, Brooklyn P.O. A06464	Bolt	100,412	14,057.
11/22/44	REPUBLIC AVIATION CORP. P.O. 03696	Trim Tab Box	102	19,993.
12/15/44	U.S. ENGINEERS, BOSTON P.O. 50-1587	M3 Pull Release	1,000,000	827,000.

In August 1944 contracts were let for the erection of a Wing to be added to our Plant under the sponsorship of the Springfield Ordnance District and thru Plancor, to increase production on M6 Firing Devices.

Subsequently it was learned that the M6 Firing Device program would be curtailed.

It was ascertained that Sliders and Slider Plates and Gears were on the urgent and critical list for Fuze, Bomb, Nose, AN M103A1.

Springfield Ordnance District gave us contracts and new machinery and equipment was ordered and tooling up was started for our 3rd reconversion.

The building was finished in time to meet contract requirements.

The 2nd Army-Navy Production Award was won on January 8, 1944.

The 3rd Army-Navy Production Award was won on September 9, 1944.

NAVY DEPARTMENT
BUREAU OF SUPPLIES & ACCT.
WASHINGTON, D. C.

T2 PULL TYPE FIRING DEVICE

The T2 Pull type firing device was the original model for the M2 Pull. This device is a friction ignited device non-metallic to be used with anti-personnel mines and booby traps. The Navy used this device in connection with an under water mine.

PRODUCTION

1944 9,512 pcs.

CONTRACT

1/14/44 Ord. 5210 9512 pcs.

Naval Aviation

Supply Office

Philadelphia

Pa

NAVY DEPARTMENT
BUREAU OF SUPPLIES & ACCTS.
WASHINGTON, D. C.

B7000 G-2 MOTORS

This motor was for the purpose of a quick replacement. When the motors on an airplane needed adjusting, rather than hold up an airplane while the mechanic made adjustments, it was much simpler to slip in a new complete motor

PRODUCTION

CONTRACT

1944

2039 pcs.

1/26/44 N 288S 19789 2039 pcs.

WAR DEPARTMENT
SPRINGFIELD ORDNANCE DISTRICT
95 STATE STREET
SPRINGFIELD, MASS.

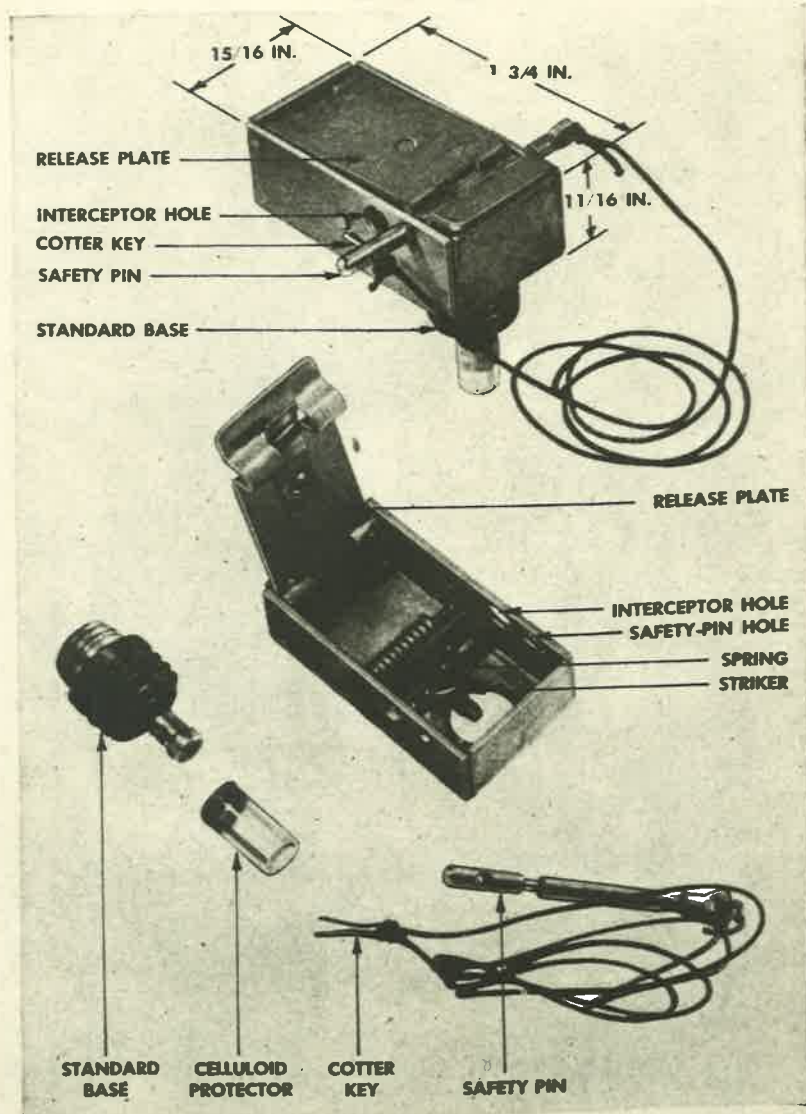
T14 FUZE LESS BASE

The T14 fuze was similar to the M6 and M7 and was used in training the soldiers in the handling of M6 and M7 Fuze.

Order rec'd 2/3/44

<u>PRODUCTION</u>		<u>CONTRACTS</u>	
1944	352,700 pcs.	2/3/44 W19-059-Ord 467 RAD 1724	300,000
		4/15/44 W19-059-Ord 1133	<u>52,700</u>
			352,700

U. S. PRESSURE RELEASE FUZE M5



TYPE. Release fuze.

COLOR. Light khaki-green.

CASE. Steel.

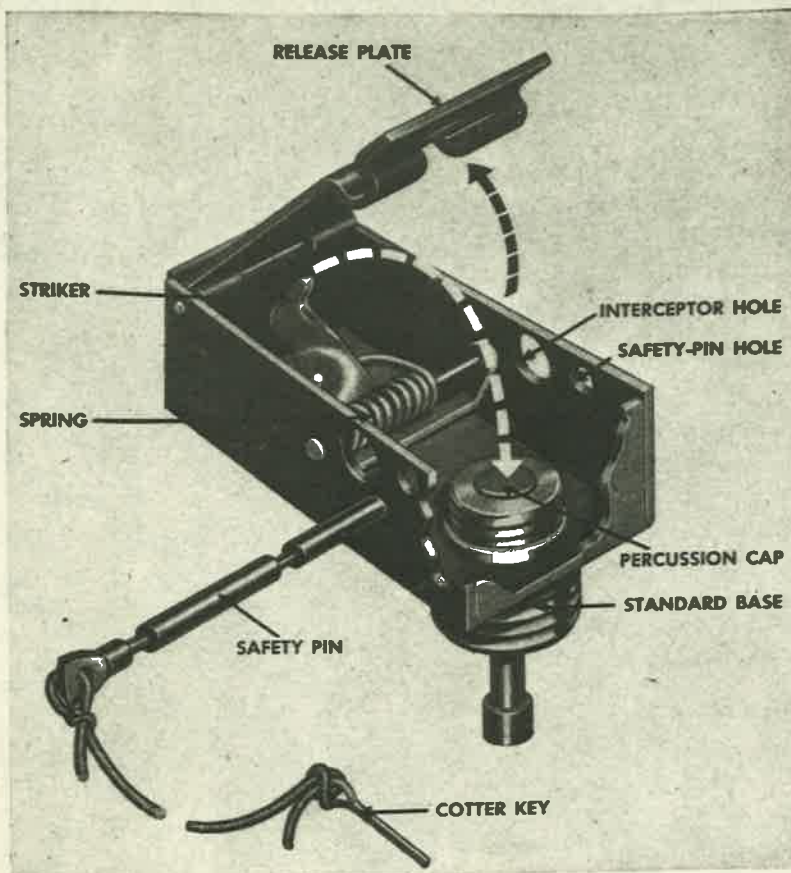
EMPLOYMENT. For booby-trapping U. S. antitank mines equipped with supplementary fuze wells and for general booby-trap installations with charges having a threaded well.

FM 5-31

8 JUN 1944

53.02-a
RESTRICTED

U. S. PRESSURE RELEASE FUZE M5



FUNCTIONING

1. When restraining load of at least 5 pounds is displaced more than $\frac{5}{8}$ inch, release plate releases striker.
2. Striker, impelled by spring, fires percussion cap.

TESTING. Testing before use is unnecessary. Inspect fuze to make sure that there are no obvious defects, that striker is cocked, and that safety pin is in proper position.

INSTALLING AND ARMING

1. Make sure safety pin is in proper position and remove small cotter key.
2. Slip nail or length of stout wire through interceptor holes.
3. Remove base.

53.08-b
RESTRICTED

8 JUN 1944

FM 5-31

THE ENGINEER BOARD
FORT BELVOIR, VIRGINIA

T5 FIRING DEVICE

This was later known as the M5 Pressure Release. This is a firing device used for booby trapping anti-tank mines or for general booby trap installations. This device is generally installed under an anti-tank mine, the object being to explode the mine when it is being removed by the enemy. It can also be used under any object with sufficient weight to hold it shut and will detonate on removal of that object.

Order received 2/15/44

1944 506 pcs. Cont. - 2/15/44 31306 - 506 pcs.

11/2/44 M5 Pressure

1000

36022

1000

U. S. ENGINEERS
75 FEDERAL STREET
BOSTON, MASS.

M2 FUSE LIGHTER

This is a firing mechanism for lighting a Bickford Fuse. Being waterproof it will ignite the fuse under water and it will also light fuses at night without showing any flash or light. It is generally used by demolition squads. The T2 Fuse Lighter was the original model of above.

First order 2/18/44

PRODUCTION

1944	5,866,600	pcs.	6 250 000
1945	7,750,450	pcs.	
1945	<u>3,441,250</u>	(Open order as of 6/26)	
	17,058,300		

CONTRACTS

2/18/44	W-37-018-Eng(MSP)-183	4,000,000	Completed in 1944	. 277
3/27/44	" " " " " 192	2,250,000	" " " " "	. 288
9/6/44	" " " " " 602	4,800,000	Shutted in 1945	
1/3/45	W-19-016-Eng(MSP)-1487	1,867,000	Shutted in 1945	
2/13/45	" " " " " 1709	3,000,000	Open	2,299,950
5/15/45	W-19-016- 1709	<u>1,141,300</u>	"	1,141,300
		17,058,300		

WAR DEPARTMENT
OFFICE OF DIV. ENGINEERS
75 FEDERAL STREET
BOSTON, MASS.

M1A1 PRESSURE FIRING DEVICE

This device is used in connection with the Anti-Personnel Mine Booby Traps. It is the same as the M1 Pressure Firing Device but it has an extension attachment composed of three prongs in an adapter which permits better camouflage. This device is screwed into an explosive charge and concealed so that anybody stepping on it will detonate the charge.

1st order rec'd March 8, 1944

	<u>PRODUCTION</u>		<u>CONTRACT</u>	<u>PCS.</u>
1944	3,128,100 pcs.	3/8/44 W37-018 Eng.(MSP)192	1,500,000	
		4/27/44 " " " " 280	998,100	
1945	<u>951,150</u> pcs.	7/5/44 " " " " 413	630,000	
		9/6/44 " " " " 603	<u>951,150</u>	
	4,079,250		4,079,250	

FISHER BODY DIVISION
GENERAL MOTORS CORPORATION
LANSING, MICH.

B-7000 MOTORS

Order dated 3/16/44 - LD 11302 - 1000 pieces

PRODUCTION

435 pieces

Balance of order was cancelled

WAR DEPARTMENT
OFFICE OF THE ENGINEERS
75 FEDERAL STREET
BOSTON, MASS.

M3 PULL-RELEASE FIRING DEVICE

The M3 Pull Release firing device is used with anti-personnel mines and booby traps. It has a taut trip wire attached which works the same as the M1 Pull type but if disarming is attempted by cutting the wire as is customary with the M1 Pull, the device will also fire. In other words, pulling or cutting the wire will detonate the charge.

Order received 3/27/44

<u>PRODUCTION</u>		<u>CONTRACT</u>	
1944	96,500 pcs.	3/27/44 W37-018-Eng (MSP)196	54,000
		5/21/44 " " " " 345	37,500
		6/9/44 PO-31-3011	<u>5,000</u>
			96,500

also Engineers 7 + Belvoir
500

WAR DEPARTMENT
OFFICE OF DIV. ENGINEERS
75 FEDERAL STREET
BOSTON, MASS.

M1 DELAY FIRING DEVICE

The chemical delay firing device was the same as the Signal Relay except that it used the Corps of Engineer's base instead of the spring snout. The signal relay is a time delay firing device which incorporates an ampule of chemical in the device. When the device is used, the ampule is broken causing the chemical to corrode through the retaining wire, and detonating the explosive. The concentration of the chemical governed the time delay which varied from ten minutes to twenty hours.

First order received 4/10/44

<u>PRODUCTION</u>			<u>CONTRACT</u>				
1944	2,188,000	pcs.	4/10/44	W37-018	Eng(MSP)	278	150,000
1945	<u>1,762,000</u>	pcs.	4/28/44	"	"	"	393 2,050,000
Total	3,950,000		5/22/44	"	"	"	326 620,000
			9/6/44	"	"	"	604 <u>1,130,000</u>
						Total	3,950,000

WAR DEPARTMENT
OFFICE OF DIV. ENGINEERS
BOSTON, MASS.

CONCUSSION DETONATING DEVICE T1

The function of this device is to detonate an explosive charge under water when activated by a pressure wave transmitted by the water from another explosion. An example of its use would be for the clearing of obstructions in the water just prior to establishing a beach-head.

A number of charges with these detonating devices attached would be placed at intervals along the obstruction. At the proper moment an explosion would be set off, which would discharge the series of explosive charges.

1st order 4/18/44

<u>PRODUCTION</u>			<u>CONTRACT</u>	
1944	5,250 pcs.	20450	4/18/44	W37-018 Eng. 275 25,000 pcs.
1945	78,750 "		7/12/44	" " " 412 50,000
1945	<u>141,000</u> " open orders		2/20/45	W19-016 Eng. 1702 <u>150,000</u>
Total	225,000 pcs.		Total	225,000 pcs.

Open 141,000 in Contract 1202

WAR DEPARTMENT
OFFICE OF DIV. ENGINEERS
75 FEDERAL STREET
BOSTON, MASS.

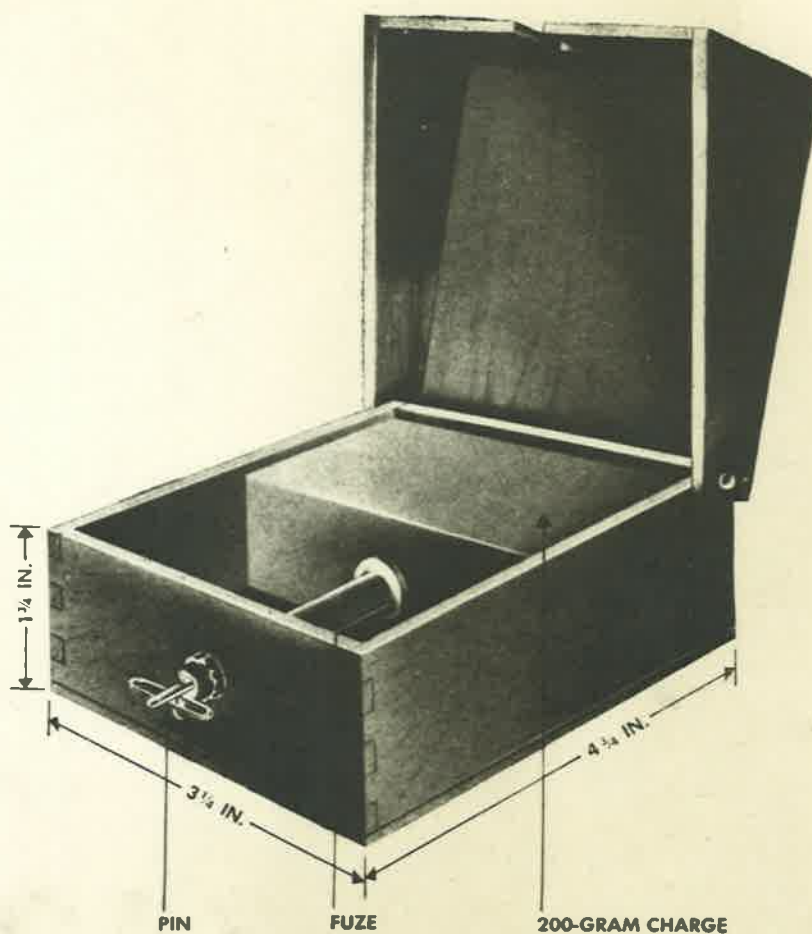
M1 PULL FIRING DEVICE

This device is used with anti-personnel mines and booby traps.
It is screwed into an explosive charge and a trip wire is attached.
Tripping over this wire or moving the object to which the wire is
attached will detonate the charge.

1st order rec'd 5/24/44

<u>PRODUCTION</u>		<u>CONTRACT</u>			
1944	1,190,400	5/24/44	W37-018	Eng(MSP) 323	700,050
		7/5/44	" "	" "	413 490,350
					<u>1,190,400</u>

drawn by
783
Contract
917.420
per



TYPE. Antipersonnel.

COLOR. Unpainted, or in colors to blend with surroundings.

CASE. Impregnated plywood or "pressed board."

WEIGHT. 1.1 pounds.

EXPLOSIVE. 200-gram ($\frac{1}{2}$ -pound) block of Sprengkorper 28.

EFFECT. Causes casualties up to 2 or 3 yards.

PACKING AND TRANSPORTING. Empty mines are supplied in light crates containing 20 mines. Detonators and charges are provided separately.

FM 5-31

8 JUL 1944

82.04-a
RESTRICTED

SIMULATED DEMOLITION CONTAINER

THE ENGINEER BOARD
FORT BELVOIR, VIRGINIA

SIMULATED DEMOLITION CONTAINER WITH MODIFIED M2

This is a copy of the German Schu-Mine 42. This is an indicator type device used by the Corps of Engineers, in determining means of clearing mine fields of this type of German Mine.

<u>PRODUCTION</u>			<u>CONTRACT</u>		
5/29/44	1944	17,000 pcs.	5/29/44	32935	2,000 pcs
			5/29/44	32937	3,000
	1945	<u>1,000</u> pcs.	5/19/44	W44-009 Eng 161	5,000
			8/1/44	34305	2,000
		18,000 pcs.	11/1/44	15476	5,000
			4/30/45	PO-38871	<u>1,000</u>
					18,000

NAVY DEPARTMENT
BUREAU OF ORD.
WASHINGTON, D. C.

DEMOLITION FIRING DEVICE MK6

The function of this device is to detonate an explosive charge under water when activated by a pressure wave transmitted by the water from another explosion. An example of its use would be for the clearing of obstructions in the water just prior to establishing a beach-head.

A number of charges with these detonating devices attached would be placed at intervals along the obstruction. At the proper moment an explosion would be set off, which would discharge the series of explosive charges.

Order received 6/3/44

PRODUCTION

1945 20,000 pcs.

CONTRACT

6/3/44 NOrd. 6239 20,000 pcs.

M. BACKES INC.
WALLINGFORD, CONN.

The parts listed below were used in a friction type firing device.

<u>Date Order</u>	<u>Cont.</u>	<u>Pcs.</u>	<u>Name</u>	<u>Shipped 1944</u>	
6/7/44	2751M	165,440	Igniter Cup	"	"
"	2752M	35,000 14,583	Pull Wire	"	"
"	2753M	14,000	Collar	"	"
"	2753M	32,344	Base	"	"
"	2754M	80,463	Spools Wire	"	"

OFFICE OF STRATEGIC SERVICES

630 FIFTH AVENUE

NEW YORK, N. Y.

A3 TYPE 6 PRESSURE FIRING DEVICE

The A3 Type 6 was a variation of A2 Type 6. This is a firing device for use with Booby traps and particularly for use in destroying railway track. A pressure exerted on this firing device would detonate the charge. An adjustable extension rod was used in connection with this firing device when placed under railway track.

Order received 8/24/44

PRODUCTION

1944 30 pcs.

1945 30,000 pcs.

CONTRACT

8/24/44 OSS 369 - 30,030

INTERNATIONAL RESISTANCE COMPANY

PHILADELPHIA, PA.

PARTS FOR AN ELECTRONIC CONTROL

Orders #25016-7-8-9-20 dated 9/5/44

<u>Amount of order</u>	<u>Item</u>	<u>Production-1944</u>
50,505 pcs.	Coil Spring	50,505
108,826	Adjustable band terminal	108,826
31,770	Band Terminal	31,770
135,300	Lead Wire	135,300

EASTMAN MACHINE COMPANY
WASHINGTON & GODELL STREETS
BUFFALO, N. Y.

B7000E MOTOR

The end use of this motor was by The Bell Aircraft Corp. as part
of the trim tab actuator on their P63 ship. *Living COBRA*

ORDERS

9/8/44	10280D	3	B7000E
10/9/44	10699	1030	"
12/5/44	11440	1825	"
12/5/44	11650D	<u>6</u>	"
		2864	

PRODUCTION OF B7000E MOTORS

First sample order 9/8/44 (3 pcs.)

1944	409	pcs.
1945	<u>2455</u>	"
	2864	

WAR DEPARTMENT
OFFICE OF DIV. ENGINEER
BOSTON, MASS.

M5 PRESSURE - RELEASE TYPE FIRING DEVICE (Same as T5 Pressure - Release)
(Eng. Bd. Ft. Belvoir)

This is a firing device used for booby trapping anti-tank mines or for general booby trap installations. This device is generally installed under an anti-tank mine, the object being to explode the mine when it is being removed by the enemy. It can also be used under any object with sufficient weight to hold it shut and will detonate on removal of that object.

Order received 9/12/44

<u>PRODUCTION</u>		<u>CONTRACT</u>	
1944	359,900 pcs.	9/12/44 M19-016	812,100 pcs.
1945	<u>452,200</u> pcs.	Eng (MSP)1149	
Total	812,100 pcs.		

WAR DEPARTMENT
SPRINGFIELD ORDNANCE DIST.
95 STATE STREET
SPRINGFIELD, MASS.

FUZE MINE COMBINATION M10A1 (METAL PARTS)

The M10A1 was used strictly for troop training purposes to educate them in the use and handling of the M6 and M7 fuses.

Order received 10/2/44

	<u>PRODUCTION</u>	<u>CONTRACT</u>
1944	140,000 pcs.	10/2/44 W19-059 Ord 1952 300,000 pcs.
1945	<u>160,000</u> pcs.	
	300,000	

WAR DEPARTMENT
SPRINGFIELD ORDNANCE DIST.
95 STATE STREET
SPRINGFIELD, MASS.

SLIDER PLATES FOR 103A1 - 920,000 PCS.

We received a prime contract from the above for 920,000 pcs. of slider plates. Contract W19-059 - Order 2070 - 11/22/44. This amount is to be divided among the following companies. Subsequently, we have received additional orders from these companies in excess of the above amount.

	<u>Ordered</u>	<u>Shipped thru 6/28/45</u>
ROYAL TYPEWRITER CO. - Hartford, Conn.	651,160	14,500
HEYWOOD WAKEFIELD CO. - Gardiner, Mass.	236,000	4,640
NORWALK LOCK CO. - Norwalk, Conn.	<u>240,000</u>	<u>10,580</u>
	1,127,160	29,720

WAR DEPARTMENT
SPRINGFIELD ORINANCE DIST.
95 STATE STREET
SPRINGFIELD, MASS.

SLIDERS FOR M103A1

We received prime contract from the above for 920,000 pcs.

Sliders - Cont. W19-059 - Ord. 2072 - dated 11/22/44

These are to be divided among the following companies. Subsequently we received direct from these companies additional orders in excess of that above.

	<u>Ordered</u>	<u>Shipped thru 6/28/45</u>
NORWALK LOCK CO. - Norwalk, Conn.	240,000	
HEYWOOD WAKEFIELD CO. - Gardiner, Mass.	186,000	24,480
ROYAL TYPEWRITER CO. - Hartford, Conn.	<u>651,160</u>	<u>53,808</u>
	1,077,160	78,288

WAR DEPARTMENT
 SPRINGFIELD ORDNANCE DIST.
 95 STATE STREET
 SPRINGFIELD, MASS.

M103A1 FUZE GEAR SETS

We received a prime contract from the above for 5,000,000 gears broken down as follows. Subsequently we received orders in excess of the amount.

Internal Gears	1,000,000 pcs.	
External Gears	1,000,000	Contract No. W19-059-Ord 2071 date 11/22/44
Drive Gears	1,000,000	
Eccentric Gears	2,000,000	

These gears to be supplied to:

<u>Name</u>	<u>Gear Internal</u>	<u>External</u>	<u>Drive</u>	<u>Eccentric</u>
Royal Type	212,160	212,160	212,160	424,320
" "	95,000	55,240	95,100	248,000
" "	279,000	253,000	279,000	556,000
Westinghouse	350,000	350,000	350,000	700,000
"	<u>150,000</u>	<u>150,000</u>	<u>150,000</u>	<u>300,000</u>
	1,086,160	1,020,400	1,086,260	2,228,320

PRODUCTION

Shipped to 6/29/45				
Royal	510	3,000	21,000	510
Westinghouse	-	-	9,000	-

WAR DEPARTMENT
SPRINGFIELD ORDNANCE DIST.
95 STATE STREET
SPRINGFIELD, MASS.

AIR TRAVEL T3

This device was designed to delay the time before a bomb fuze went into action. It would allow bombing from higher altitude.

10/10/44 - W19-059 - Ord. 2005

Original order was for 500 pcs.

Canceled 485 pcs.

Shipped 11/30/44 1

" 1/17/44 14

15