GUIDE TO SELECTED VIET CONG EQUIPMENT AND EXPLOSIVE DEVICES

May 1966
Headquarters, Department of the Army
Washington, D.C.

DEPARTMENT OF THE ARMY PAMPHLET

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FOREWORD

The purpose of this handbook is to provide United States military personnel with a compact source of orientation and recognition data on improvised equipment and explosive devices in use by the Viet Cong in the Republic of Vietnam.

The Viet Cong forces have acquired wide experience in constructing grenades, mines, fuzes, explosive charges, and other deadly weapons and devices by using commonly available materials. These devices, cunningly placed and camouflaged, have caused many casualties.

The authority for retention of war trophies by any individual is governed by directives of the senior U.S. Headquarters in the area concerned, as well as by pertinent regulations. Items of war material coming into the possession of U.S. forces will be reported through intelligence channels.

Evidence of errors or omissions in this handbook should be forwarded to the U.S. Army Foreign Science and Technology Center, Munitions Building, Washington, D.C., 20315.

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TABLE OF CONTENTS

	Page
EMERGENCY HANDLING GUIDANCE FOR EXPLOSIVE DEVICES	1
GRENADES:	1
Stick Hand Grenade	9
Defensive Hand Grenade	11
Offensive Hand Grenade	13
Milk Can Hand Grenade	15
Shaped Charge Hand Grenade	17
purpos and 60 mans of condensation and an analysis and an anal	1.
MINES:	
Shell Case Mine	19
Tin Can Antipersonnel Mine	21
Concrete Fragmentation Mine	23
Concrete Mound Mine	25
Betel Box Mine	27
Turtle Mine	29
Pineapple Fragmentation Mine	31
Dud Shell Mine	33
Min Antipersonnel Mine	35
Bounding Fragmentation Mine	37
DH-10 Directional Mine	39
Bevelled Top Water Mine	41
Truncated Cone Water Mine	43
DEMOLITIONS:	
Small Truncated Cone-Shaped Charge	45
Large Truncated Cone-Shaped Charge	47
Turtle Charge	49
Cylindrical Charge	51
Pole Charge	53
Oil Drum Charge	55
Bangalore Torpedo	57
FUZES AND FIRING DEVICES:	
Chemical Fuze	59
Pressure-Electric Firing Device	61
Wristwatch Firing Device	63
Mousetrap Firing Device	65
MISCELLANEOUS ITEMS:	
Angled Arrow Trap	67
U	٠.

Whip	69
Bicycle Mine.	71
Cartridge Trap (Foot Breaker)	73
Spike Board Pit	75
Tilting Lid Spike Pit	77
Pivoted Spike Board	79
Venus Flytrap (Pit)	
Venus Flytrap (Can)	81
Sideways Closing Trap	83
Trap Bridge	85
Suspended Spikes	87
	8 9
Spike Log (Mace)	91
Cal22 Fountain Pen	93
Explosive Fountain Pen	95
Sodium Incendiary Device	97

EMERGENCY HANDLING GUIDANCE FOR EXPLOSIVE DEVICES

(Extracted from FM 5-31, September 1965)

I. GENERAL

Through knowledge of the mechanical details and techniques in the use of standard U.S. mines, grenades, and boobytrapping equipment, a soldier is ordinarily prepared to some extent for dealing with similar equipment of the enemy. However, familiarity with conventional warfare explosive devices is of little or no use in guerrilla warfare. Most enemy boobytraps found recently in guerrilla-infested areas were cunningly and ingeniously improvised and laid. Such boobytraps can rarely be neutralized, even by the most experienced specialists.

2. TECHNICIANS

- a. Although engineer and infantry specialists are responsible for boobytrap detection and removal, men in all military organizations assigned to combat zone missions must be trained to assist them.
- b. If possible, trained engineer, infantry, or explosive ordnance disposal (EOD) units will search out and neutralize all boobytraps in front of friendly troops—or prepare safe passage lanes. Simple boobytraps will be disarmed during attack; those more complicated will be marked by warning signs and reported for removal:
- c. Tactical units should bypass boobytrapped areas, especially villages and other inhabited places, to be cleared by specialists later. They will neutralize boobytraps only when necessary for continued movement or operation.

3. DETECTION

Detection of boobytraps requires the most careful observation. Soldiers must discipline themselves to be constantly on guard against the possibility of accidentally exploding a boobytrap, especially when moving over an area previously held by the enemy. All soldiers, even those not assigned primary responsibility for locating boobytraps, must be alert for any sign of them. They must always look carefully for concealed boobytraps even when performing normal activities.

4. OUTDOOR SEARCH TECHNIQUES

As boobytraps are so deadly and so cunningly conceived and hidden, searchers should be suspicious of-

- a. All movable and apparently valuable and useful property.
- b. All disturbed ground and litter from explosive containers.

- c. Marks intentionally left behind to attract or divert attention.
- Evidence of former camouflage.
- e. Abrupt changes or breaks in the continuity of any object, such as unnatural appearance of fences, paint, vegetation, and dust.
 - f. Unnecessary things like nails, wire, or cord that may be part of a boobytrap.
 - g. Unusual marks that may be an enemy warning of danger.
- h. All obstructions, for they are ideal spots for boobytraps. Search carefully before lifting a stone, moving a low-hanging limb, or pushing aside a broken-down wheelbarrow.
 - i. Queer imprints or marks on a road, which may lead a curious person to danger.
- j. Abandoned vehicles, dugouts, weeds, machinery, bridges, guilles, defiles or abandoned, stores. Walk carefully in or around these as pressure-release devices are easily concealed under relatively small objects.
- k. Areas in which boobytraps are not found immediately. Never assume without further investigation that entire areas are clear.
- Obvious tripwires. Even though one tripwire is found attached to an object, others may
 be also attached. Searching must be complete.

5. DISARMING METHODS

- a. Neutralization. Neutralization, the making of a dangerous boobytrap safe to handle, involves two steps: (1) disarming or replacing safeties in the firing assembly, and (2) defuzing or separating the firing assembly from the main charge and the detonator from the firing assembly. If neutralization is not possible, the boobytrap must be destroyed.
- b. Destruction in Place. A boobytrap may be destroyed in place if some damage is acceptable, as is generally the case out of doors. An operator may initiate a boobytrap by its own mechanism and riggings or by a rope from a safe distance (at least 50 meters away).
- c. Removal of the Main Charge. Before attempting removal, careful probing around the main charge is necessary to locate and neutralize all antilift devices. To avoid casualty, the type of firing mechanism must be recognized and all safety devices must be replaced. If complete neutralization seems doubtful, the charge should be pulled from place by a grapnel or rope from a safe location (at least 50 meters away). After pulling the charge, the operator should wait at least 30 seconds as a safeguard against a concealed delay action fuze.
- d. Hand Disarming. None but trained specialists should attempt hand disarming—unless the boobytrap's characteristics and disarming techniques are well known. Trained specialists only should inspect and destroy all unusual or complicated mechanisms. The following procedures for hand neutralization should be used for guidance only, as the exact sequence depends on the type of device and manner of placement.
 - Do not touch any part of a boobytrap without first examining it thoroughly. Locate all firing devices and their triggering mechanisms.
 - (2) When tracing wires, look for concealed intermediate devices laid to impede searching. Do not disturb any wires while examining the boobytrap.
 - (3) Cut loose tripwires only after careful examination of all connecting objects and after replacing all safeties.
 - (4) Trace taut wires and disarm all connected firing devices by replacing safeties. Taut wires should be cut only after eliminating the danger at both ends.
 - (5) Replace safeties in all mechanisms, using nails, lengths of wire, cotter pins, and other similar objects.
 - (6) Never use force in disarming firing devices.
 - (7) Without disturbing the main charge, cut the detonating cord or other leads between the disarmed firing device and the main charge.
 - (8) Cut wires leading to an electrical detonator—one at a time.

- (9) When using a probe, push it gently into the ground. Stop pushing when you touch any object (it may be a pressure cap or plate).
- (10) Once separated, boobytrap components should be removed to a safe storage or disposal area.

e. Special Precautions.

- (1) Be very cautious in handling delay mechanisms. Danger may exist before the appointed time because of auxiliary firing devices. All complicated and confusing devices should be destroyed in place or marked for treatment by specialists.
- (2) Wood or cardboard explosive containers, buried for long periods of time, are dangerous to disturb. They are also extremely dangerous to probe if in an advanced state of decomposition. Deteriorated high explosives are especially susceptible to detonation. Thus, a boobytrap destroyed in place and in a concentrated area long exposed to moisture may detonate many others simultaneously.
- (3) Metallic explosive containers are often dangerous to move after prolonged burial. They may also be resistant to detection because of oxidation. The explosive may become contaminated after a time, further increasing the danger of handling. Explosives containing pieric acid are particularly dangerous; deterioration from contact with metal forms extremely sensitive salts which are readily detonated by handling.
- (4) Certain types of fuzes become extremely sensitive to disturbance after exposure to wet soil. Detonation in place is the only safe method of neutralizing or removing such deteriorated boobytraps.

SELECTED VIET CONG

EQUIPMENT AND EXPLOSIVE DEVICES

Stick Hand Grenade

11 Defensive Hand Grenade

GENERAL DESCRIPTION AND COMMENT

The stick hand grenade, used extensively by the Viet Cong. comes in several The defensive hand grenade, of serrated cast iron, functions in the same a copper wire coated with a match compound. Normally the match compound firing device which ignites the primer and delay element of the fuze. ignites a 4-second delay element, but a number of these grenades have been found with no delay element,

Type ______ Color

Maximum diameter _____

Total weight

CHARACTERISTICS

Defensive

6 to 8 in

Approx 4 sec

Black

2 in

3 lb

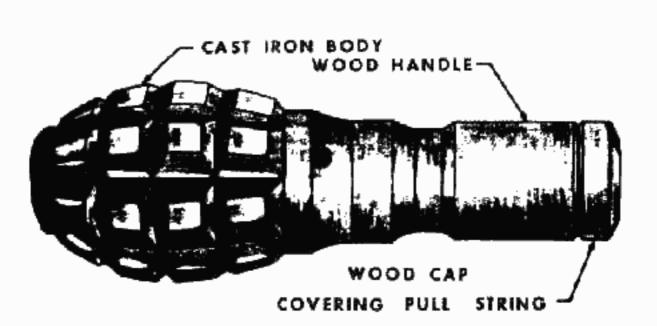
TNT

GENERAL DESCRIPTION AND COMMENT

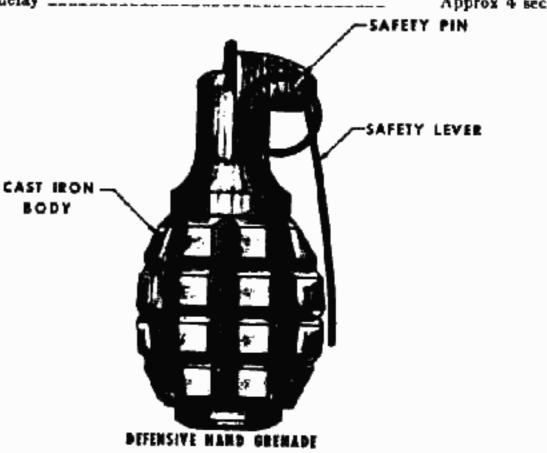
sizes—differentiated by lengths of handle and sizes of fragmentation heads, manner as similar U. S. hand grenades. When the safety pin is removed and This grenade functions by a pull string enclosed in the handle and attached to the grenade thrown, the safety lever releases the spring of the mechanical

CHARACTERISTICS

Type	Defensive
Color	Black
Diameter	2.5 in
Length	
Total weight	1.5 lb
Filler	TNT
Fuze delay	Approx 4 and



STICK HAND GREWADE



13

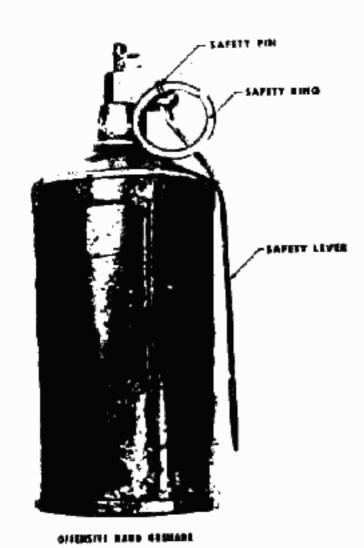
Offensive Hand Grenade

GENERAL DESCRIPTION AND COMMENT

The offensive hand grenade is made of explosive and sheet metal with crimped and soldered seams. It is normally equipped with a time delay fure. These grenades must never be disassembled as a number of them have been found boobytrapped; for example, they have been found with an instantaneous (no delay) fuze, and an attempt to throw such a grenade, after pulling the pin, would prove fatal to the thrower.

CHARACTERISTICS

Offensive Generally black or olive-drab 2.6 in	
5.4 in	
1.6 1b	
TNT or potassium chlorate	
Approx 4 sec	



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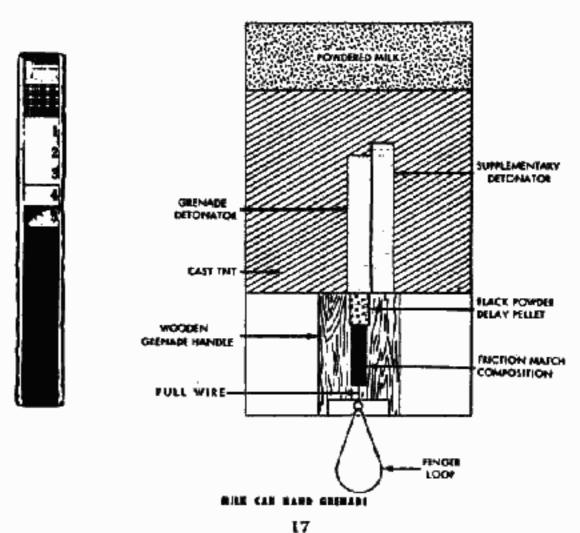
Milk Can Hand Grenade

CENERAL DESCRIPTION AND COMMENT

by cutting a hole in one end and removing most of its contents, refilling the this mine; the mine illustrated is detonated by the potato masher grenade incan with cast TNT, and installing a pull-friction fuze from a stick hand serted into the explosive charge. Inserted into the side of the easing are two grenade. Because the device has no booster charge, it uses two detonators fuzz wells through which electrically or mechanically initiated fuzzes may be for more powerful concussion.

CHARACTERISTICS

Type	Offensive
Color	Commercial label
Maximum diameter	
Length	6.0 in
Total weight	2 1Ь
Filler	
Fuze delay	



Shaped Charge Hand Crenade

GENERAL DESCRIPTION AND COMMENT

The shaped charge hand gronade consists of a shaped charge, a cylindrical sheet metal charge container, a conical sheet metal drag, an impact fuze mechanism, and a wood handle with a sheet metal drag lock and pin. When the lock pin is removed and the grenade is thrown, a spring forces the conical drag back over the handle to stabilize the grenade's flight (drag is attached to charge container by strips of material inside the cone). When the granade strikes, the impact fuze ignites the shaped charge,

CHARACTERISTICS

Туре	Shaned shares (IIII A.M.
Color	Shaped charge (HEAT Black or olive-green
Maximum diameter	3 in
Total weight	8.75 in
Filler	Approx 1.5 lb Cast TNT
Fuze delay	Time of Sight
HANDLE 7 DRAG	

18 Shell Case Mine

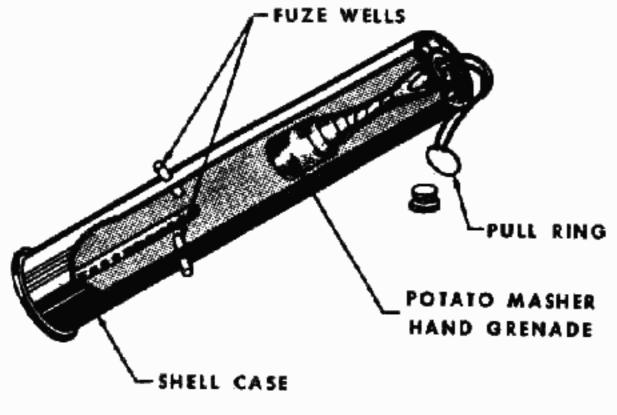
SHAPED CHARGE HAND GRENADE

DRAG LOCK AND PIN

GENERAL DESCRIPTION AND COMMENT

The shell case mine has a standard artillery shell easing, mostly 75-, 105-, The milk can hand grenade is made from a commercial powdered milk can and 155-mm calibers. A variety of fuzing mechanisms can be improvised for placed. The mine, generally used in an antipersonnel role, is initiated by a tug on a tripwire strung across a path.

Type	Antipersonnel
Caker	Brass
Maximum diameter	6 in
Length	
Total weight	10 to 15 lb
Filler	
Fuze delay	
	(with grenade)



SHELL CASE MINE

Tin Can Antipersonnel Mine

GENERAL DESCRIPTION AND COMMENT

The tin can mine is constructed from a sheet metal container similar in appearance to a beer can. The firing device for the explosive is an improvised fuze with zero delay action. A hand grenade fuze may be used with this munition by removal of the delay element. The mine functions by a tripwire attached to the pull ring device, which when removed allows the apring-driven striker to move downward, hitting the primer and detonating the mine.

CHARACTERISTICS

Type		Antipersonnel
Color		Gray or green
Maximum diameter		3 in
Height		6 in
Total weight		Approx 2 lb
Filler		TNT
Fuze delay		None
	ROVISED FUZE	
Sec. 149, 500		

Type

GENERAL DESCRIPTION AND COMMENT

Concrete Fragmentation Mine

TIM CAN ANTIPERSONNEL MINE

The concrete fragmentation mine is constructed of explosive encased in cylindrically shaped concrete with a flat side for stable emplacement. A 2inch-diameter pipe on one end of the mine head serves as a carrying handle and detonator housing. The two swivels on top of the mine are used to tie it to an object. The mine's electrical detonator usually is activated remotely by means of a battery pack or hand-held generator.

CHARACTERISTICS

Type Color Length of mine body Width of base Height Total weight Filler Fuse delay	Gray 10 in 7 in 6 in 13 lb TNT
ELECTRIC DETONATOR L	ADS CONTRACTOR OF THE PARTY OF
CARRYING HANDLE AND DETONATOR HOUSING	END VIEW

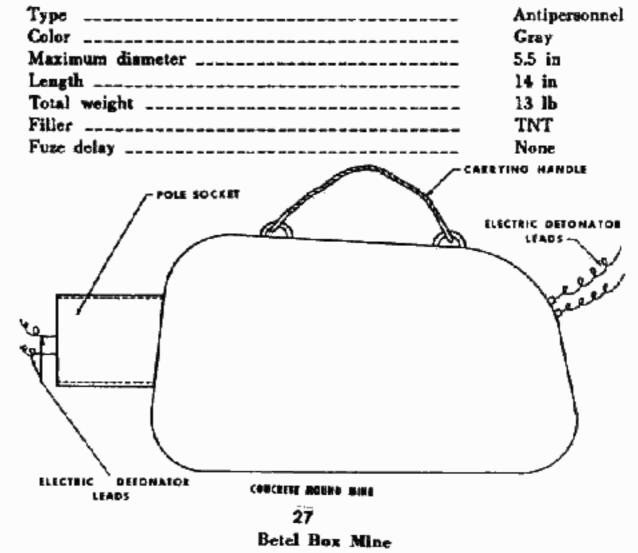
CONCRETE FRAGMENTATION MINE

25 Concrete Mound Mine

GENERAL DESCRIPTION AND COMMENT

The concrete mound mine is constructed of explosive encased in concrete, but possibly a similar mine of cast iron may be encountered. The moundshaped mine is electrically fuzed and has two fuze wells, one at each end. The iron pipe at one end of the mine serves as a pole socket, as well as being a housing for one of the fuze wells. Electric current to activate the detonator is provided by a battery pack or hand-held generator.

CHARACTERISTICS

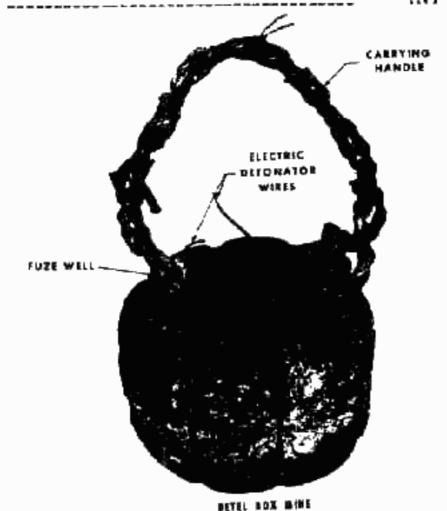


GENERAL DESCRIPTION AND COMMENT

The betel box mine is constructed of concrete and explosive. Its one fure well is located on the top at the center of the mine. Used in either an antipersonnel or an antivehicular role, the mine is exploded by an electrical detonator.

CHARACTERISTICS

Туре	Antipersonnel/
Color	Gray antivehicular
Maximum diameter	8 in
Height	7 in
Total weight	13 IL
Fig	TNT



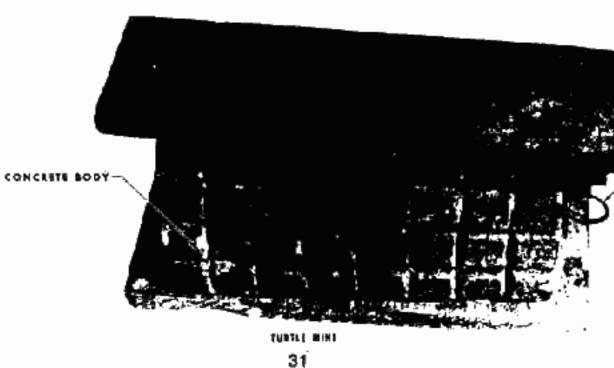
29 Turtle Mine

GENERAL DESCRIPTION AND COMMENT

The turtle mine, constructed of concrete with explosive inside, is used primarily as a demolition charge. It can be desonated by either an electrical or mechanical fuze (with or without delay). The mine illustrated utilizes a mechanical fuze.

CHARACTERISTICS

Type	Dual perpose
Color	Gray
Maximum diameter	5 in tend view is semicircular
Length	9 LB
Overall weight	13 ib
Filler	TNT



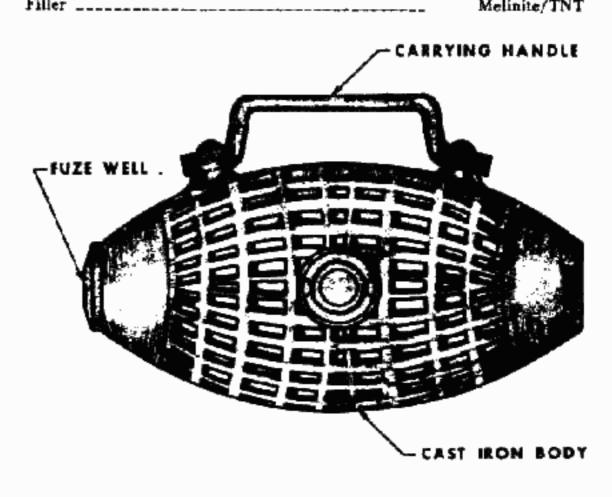
Pincapple Fragmentation Mine

GENERAL DESCRIPTION AND COMMENT

The pineapple fragmentation mine is a unique egg-shaped mine constructed of cast iron and is further identified by surface serrations and a carrying handle. The mine has a single fuze well located in one end of the body. It is fuzed with an electrical detonator which is activated by current from batteries or a hand-held generator.

CHARACTERISTICS

Гуре	Antipersonnel
Color	Gray
Maximum diameter	5 in
Length	9 in
Total weight	12 lb
Filler	Mallates/TNT



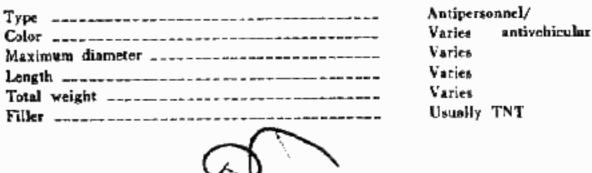
PINEAPPLE FRAGMENTATION MINE

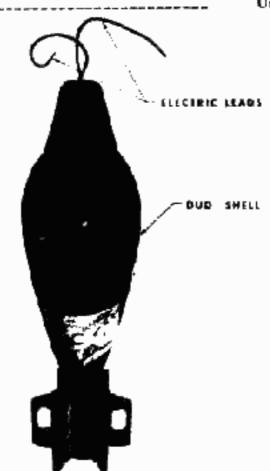
33 Dud Shell Mine

GENERAL DESCRIPTION AND COMMENT

The dud shell mine is improvised from a dud artillery or mortar projectile. The mine is made by removing the fuze from a projectile and drilling a hole into the explosive for an electrical detonator. Hatteries or a hand-held generator supply the current to activate the detonator remotely. The mine is usually found along roads or trails. Its effectiveness against armored vehicles and personnel varies with the type and size of projectile used.

CHARACTERISTICS





BUS SHELL MENE

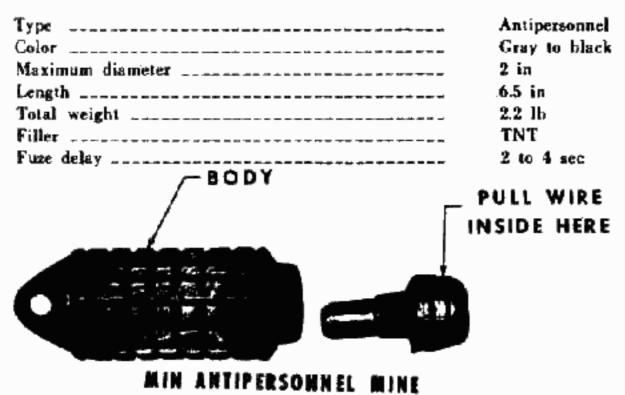
PULL RING FOR MECHANICAL FUZE

35 Min Antipersonnel Mine

GENERAL DESCRIPTION AND COMMENT

The min antipersonnel mine, made of cast iron, resembles a stick hand grenade with a very short handle. The word, "Min," is often found cast into the body. The handle houses a pull-friction, delay-type fuze. A tag on a tripwire attached to the pull wire of the friction fuze will, by extracting the pull wire, ignite the delay element.

CHARACTERISTICS



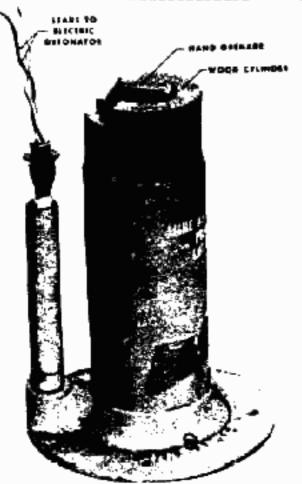
'37
Bounding Fragmentation Mine

GENERAL DESCRIPTION AND COMMENT

The bounding fragmentation mine is improvised from U.S. M2 bounding-mine or M48 trip-flare mine cases. A wooden cylinder slightly smaller in diameter than the mine case is hollowed out so that a standard grenade (frequently the U.S. M26) can fit inside. The wooden cylinder with inclosed grenade is then fitted into the mine case and the grenade's safety pin is extracted. When the mine is initiated electrically, either by a battery pack or a hand generator, the cylinder and grenade are propelled upward. As the wooden cylinder with grenade leaves the case, the handle flies off and initiates the fuze train of the grenade.

CHARACTERISTICS

Turn	h -4 i
Туре	Antipersonnel
Color	Olive-drah or gray
Maximum diameter	2.5 ia
Height	8 n
Total weight	S 1b
Filler	Grenade (TNT)
Fuze delay	3 to 4 sec (grenade)



10th host things of Landsquare

DH-10 Directional Mine

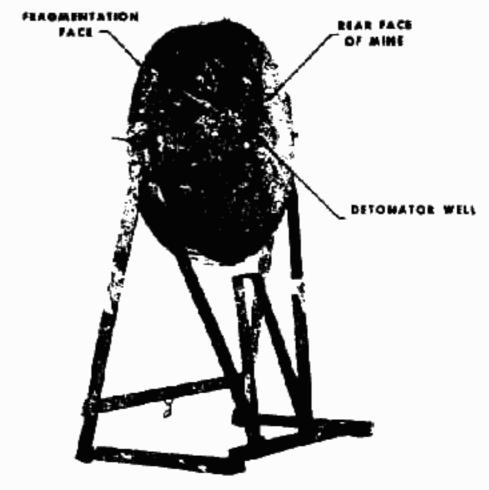
39

GENERAL DESCRIPTION AND COMMENT

The DH-10 directional fragmentation mine is primarily an antipersonnel mine which also can be used against thin-skinned vehicles or similar items. The concave front or fragmentation face of the mine contains approximately 450 half-inch steel fragments embedded in a matrix, and is backed up by cast TNT. Designed for electrical detonation, the mine is provided with an adjustable frame so that it can be placed on various types of surfaces and simed in any direction. The single faze well is centered on the convex (back) side of the mine,

CHARACTERISTICS

Type	Dual purpose
Color	Gray to black
Maximum diameter	12 în
Width	4 in
Total weight	20 lb
Filler	Cast TNT



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41

Bevelled Top Water Mine

GENERAL DESCRIPTION AND COMMENT

Bevelled top water mines are found in large quantities in the Mekong River and its tributaries. They are placed at depths compatible with the draft of the hoats plying the particular waterway. The mine is constructed of sheet metal rolled into a conical shape; the seams are soldered or riveted. The electrical fuze is located in a fuze well in the bottom of the mine. A flotation chamber is in the end opposite the fuze well. Batteries or a hand-held generator provides the current.

Туре	Antibeat
Color	Black
Maximum diameter	11 in
Height	12 in
Total weight	27 lb
Filler	TNT

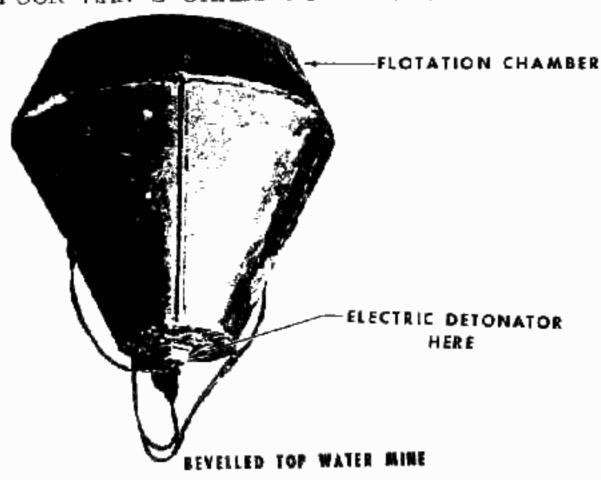
Black

17 in

25 in

83 lb

TNT



43 Truncated Cone Water Mine GENERAL DESCRIPTION AND COMMENT

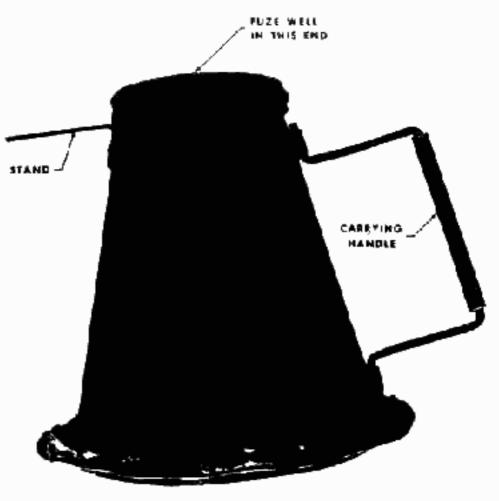
The truncated cone water mine is manufactured from medium-gage sheet metal in two sections riveted together: the explosive section with electrical fuze (small end) and the flotation chamber. When a vessel approaches, the mine is positioned by the Viet Cong on the shore by means of ropes. Once positioned, the mine is detonated by using a battery pack or a hand generator.

CHARACTERISTICS Antiboat Type _____ Color Maximum diameter _____ Height -----Total weight _____ Filler -----IMPRIES PRIORATOR QUELOSIVE S. MOINTION.

Small Truncated Cone-Shaped Charge CENERAL DESCRIPTION AND COMMENT

The small truncated cone-shaped charge is encased in sheet metal plates riveted together. A pull-friction fuze in the small and usually initiates the explosive charge; it contains a delay element which allows the Viet Cong saboteur to leave the vicinity before the explosion. Some charges have also been found with electrical detonators and some with boobytraps in the fuze mechanism. CHARACTERISTICS

Color	Lisually black
Maximum diameter	8 to 10 to
Height	8 to 10 in
Total weight	15 to 18 lb
Filler	TNT or homemade explosiv
Fuse delay	Approx 9 sec (pull-friction)



SHAIR TRUBCATED CORE INAPIS CHARGE

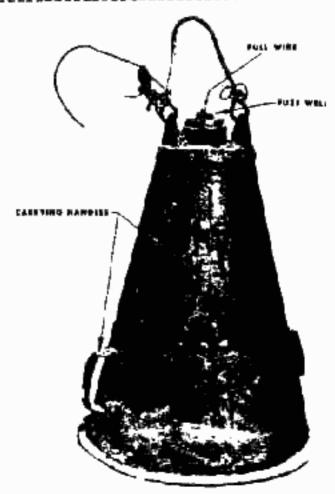
47

Large Truncated Cone-Shaped Charge

GENERAL DESCRIPTION AND COMMENT

The large truncated cone-shaped charge is encased in heavy-gage sheet metal with welded scama. Its fuze is a pull-release or pull-friction device of unknown construction, which is initiated when a nearby Viet Cong tugs on the pull wire. This charge is also found to be occasionally fuzed for electrical initiation. CHARACTERISTICS

Unpainted or black Color _____ Maximum diameter 9 in Height _____ 11 ln Total weight _____ 22 lb TNT Filler



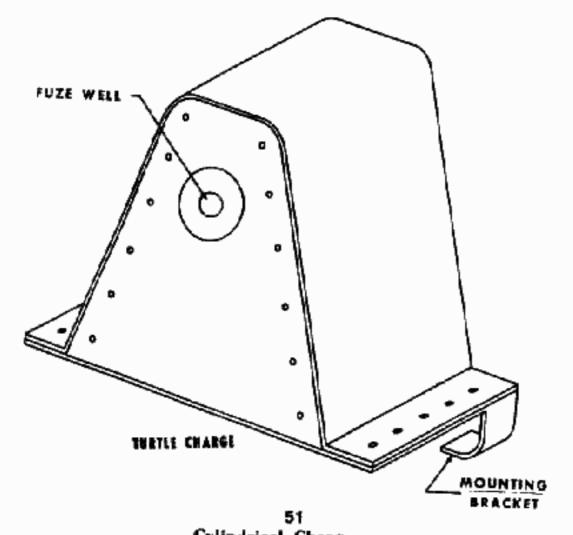
LATER THRUCATES CONS-SHAPED IMADES 49

Turtle Charge GENERAL DESCRIPTION AND COMMENT

The turtle charge is encased in four pieces of sheet metal riveted together and coated with a black waterproofing compound. This charge can be initiated either electrically or mechanically (with or without a delay element). Either type of fuze would be located in the fuze well on the side of the charge and would be initiated by a nearby Viet Cong.

CHARACTERISTICS

Color	Elack
Length	Approx 4 in
Width	9 in
Height	S to ft in
Total weight	20 lb
Filter	Pierio acid (melinite) or TNT



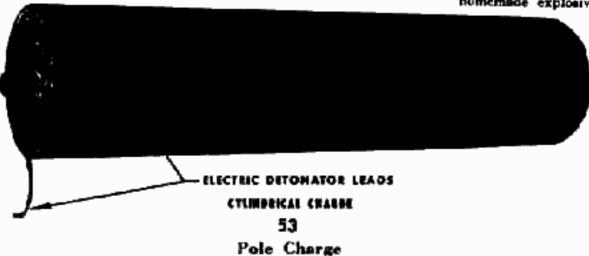
Cylindrical Charge

The cylindrical charge, although normally encased in sheet metal as illustrated, can also be made from artillery and mortar projectile shipping containers. The dimensions and weight vary considerably. The charge is normally fired electrically by a nearby Viet Cong using batteries or a hand-held generator. The weapon could also be fired by pull-friction, mechanical, or delay-type firing devices.

GENERAL DESCRIPTION AND COMMENT

CHARACTERISTICS

Color	Varies
Maximum diameter	Varies
Longth	Varies
Total weight	5 to 25 ib
Filler	TNT, potassium chlorate, or
	homemade explosive



GENERAL DESCRIPTION AND COMMENT

The pole charge consists of a quantity of explosive wrapped in waterproof material tsuch as a piece of tarpaulin or canvas) and lashed to a 3- or 4-foot-long pole. The explosive is initiated by a piece of time fuze crimped to a nonelectric detonator. Pole charges are generally used during assaults for destroying barbed wire entanglements and bunkers.

CHARACTERISTICS

Color Maximum diameter Length (pole) Total weight	
Fuse delay	Normally potassium chlorate Varies



WRAPPED EXPLOSIVE CHARGE

55

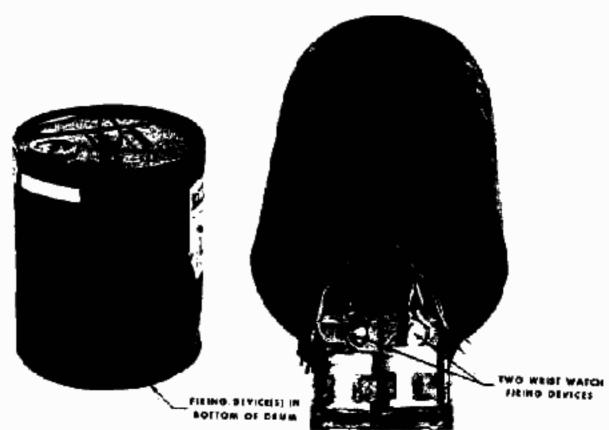
Oil Drum Charge

GENERAL DESCRIPTION AND COMMENT

The oil drum charge is made by partially filling a standard U.S. 5-gallon oil or lubricant drum with explosive and installing a wristwatch firing device (see page 63) in the bottom end. The specimen shown on the opposite page actually has two firing devices to insure that the charge will explode even if one fuze malfunctions.

CHARACTERISTICS

Color	Olive-drab
Maximum diameter	11 in
Height	13 in
Total weight	Approx 25 lb
Filler	Varies



DIE DERN CUTSTE

57

Bangalore Torpedo

GENERAL DESCRIPTION AND COMMENT

The Bangalore torpedo is generally made from a length of 2-inch-diameter pipe filled with explosive and initiated by a fuze. The specimen illustrated is one of the better made items and has a fuze well in one end. The most commonly encountered Bangalore torpedoes are much cruder in appearance. They may be found with any type of fuze.

Color	Black or olive-drab
Maximum diameter	2 in
Length	Approx 42 in
Total weight	Varies
Filler	TNT or pierie acid



BANGALORI TORPIDO

100

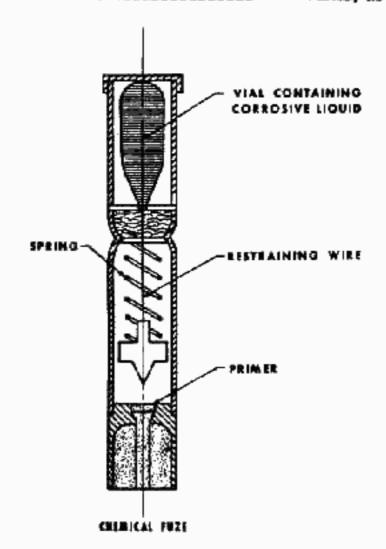
Chemical Fuze

GENERAL DESCRIPTION AND COMMENT

The chemical fuze is used for subotage. It can be attached to any mine or demolition charge. The fuze is initiated by breaking the corresive liquid vial; the corrosive solution then gradually corrodes the wire which restrains the firing pin. When the wire has weakened sufficiently, the firing pin is released and strikes the primer, detonating the charge. The delay time pro- hours) or the hour hand (if the desired delay is in minutes) is broken off. vided by this fuze varies with temperature and wire diameter.

CHARACTERISTICS

Type	Delay
Diameter	0.5 in
Length	S in
Fuze delay	Varies: 20 to 38 min

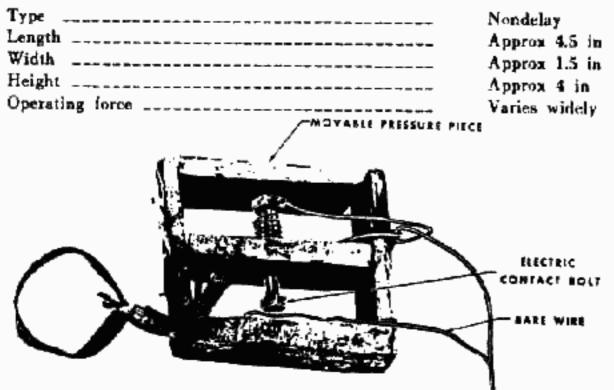


61 Pressure-Electric Firing Device

GENERAL DESCRIPTION AND COMMENT

The pressure-electric firing device consists of a wood frame; a movable, spring-loaded wooden pressure piece attached to a bolt; and a length of double-strand electric wire. One strand of electric wire is attached to the boit; the second strand (bare) is fastened to the frame. When some outside force (i.e. a person stepping on the device) pushes the pressure piece down so that the head of the bolt contacts the bare strand of wire, the circuit is completed through the electrical detonator which then fires the device.

CHARACTERISTICS

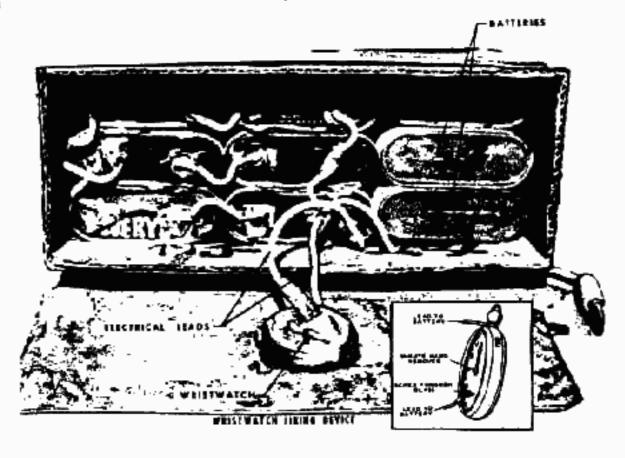


PRISSURI-ILECTRIC FIRING DEVICE

63 Wristwatch Firing Device

GENERAL DESCRIPTION AND COMMENT

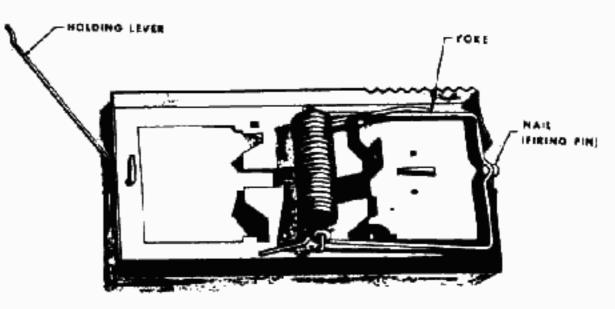
The wristwatch firing device is used to provide a delay between the time an explosive charge (bomb or mine) is placed and the time it explodes. The delay period can range from a few minutes to 12 hours according to how the watch is altered and set. Either the minute hand (if the desired delay is in One electric lead is connected to the stem or case of the watch and the second lead is connected to a screw passing through a hole in the watch crystal. The watch runs for a preset interval until its remaining hand touches the screw; at that time the circuit is completed and an electrical detonator explodes. The illustration shows an actual installation including the power supply; the inset shows a watch only, in schematic form,



65 Mousetrap Firing Device

GENERAL DESCRIPTION AND COMMENT

The mousetrap firing device, as its name indicates, consists of an ordinary mousetrap, arranged so that the yoke, when tripped, will drive a firing pin (nail) into a percussion primer. This fixing device has been frequently used on Viet Cong improvised guns. Its future use will probably be confined to boobstrap or antipersonnel mine installations,

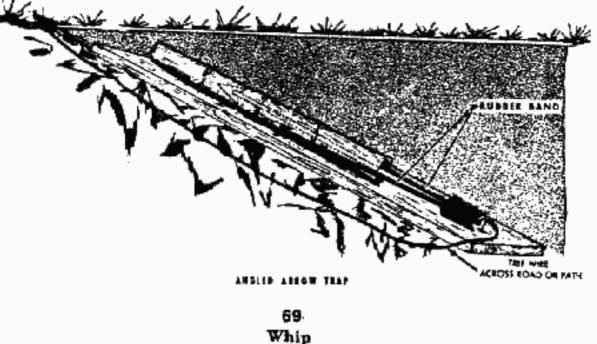


MOUSTINAP (MING DERSCE

67 Angled Arrow Trap

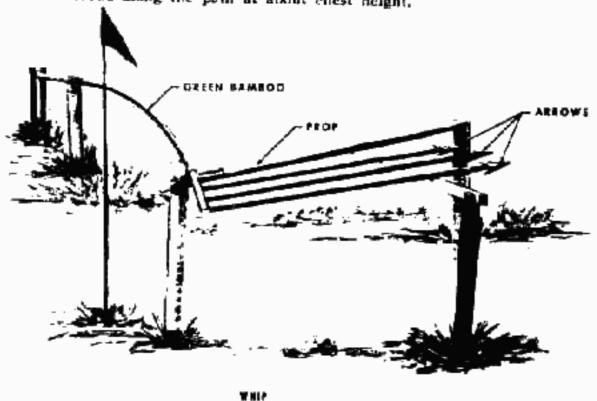
GENERAL DESCRIPTION AND COMMENT

The angled arrow trap is made of a piece of bamboo (about 1-meter long) fastened to a board, a steel arrow, a strong rubber hand, a tripwire, and a catch mechanism. The device is placed in a camouflaged pit, the bottom of which is sloped in such a way that a person tripping the wire will be struck in the thorax by the arrow.



GENERAL DESCRIPTION AND COMMENT

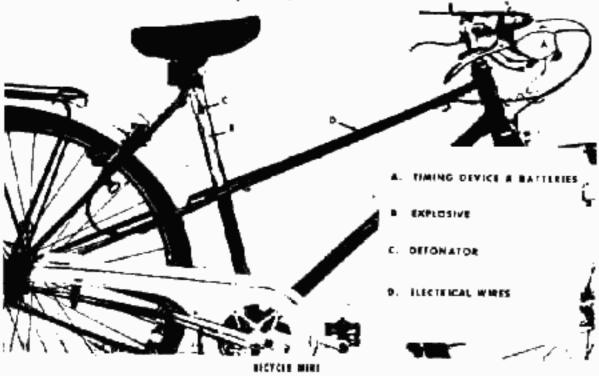
The whip consists of a length of green bamboo, supported by a series of posts, and three or four barbed-point arrows. The bamboo pole is bent and held in an arc position by a catch device. When a tripwire placed across a trail or path is pulled, it releases the catch device, and the hamboo pole hurls the arrows along the path at about chest height.



71 Bicycle Mine

GENERAL DESCRIPTION AND COMMENT

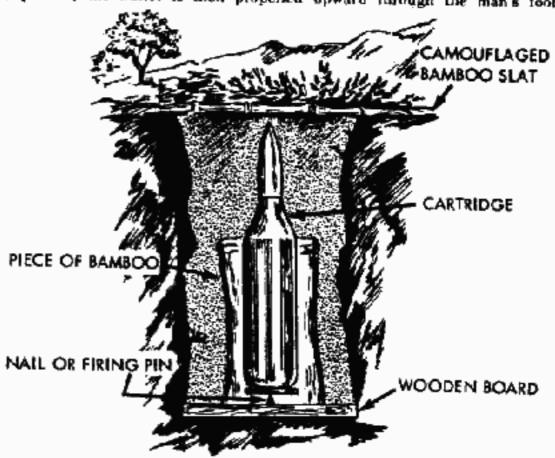
The bicycle mine is made from an ordinary bicycle by filling part of the tubular frame with explosive, installing an electrical detonator in this explosive, and connecting the detonator to batteries and a wristwatch firing device (see page 63) in the headlight housing. The bicycle explodes when, after a preset time interval, the wristwatch hand touches an electric contact and the circuit through the detonator is completed. This mine can be varied by connecting the detonator directly to the headlamp power generator; when the bicycle is moved, the generator sends an electric current through the detonator to cause the explosion.



73 Cartridge Trap (Foot Breaker)

GENERAL DESCRIPTION AND COMMENT

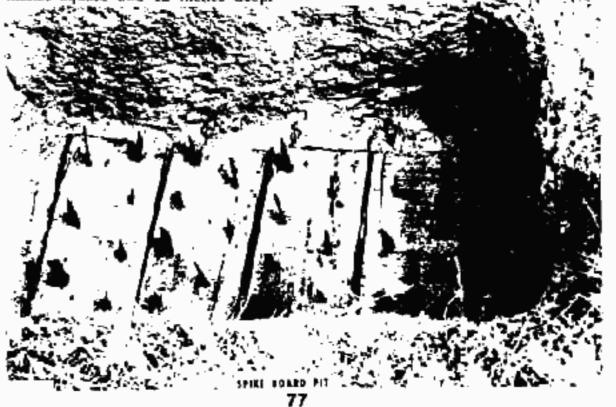
The cartridge trup consists of a cartridge set into a piece of bamboo fastened to a board and installed in a camouflaged pit. A nail driven through the bottom of the bamboo serves as a firing pin. The weight of a man stepping on the upper end of the cartridge forces the nail into the cartridge to initiate the primer; the bullet is then propelled upward through the man's foot.



CARTRIDGE TRAP (FOOT BRIAKER)
75
Spike Board Pit

GENERAL DESCRIPTION AND COMMENT

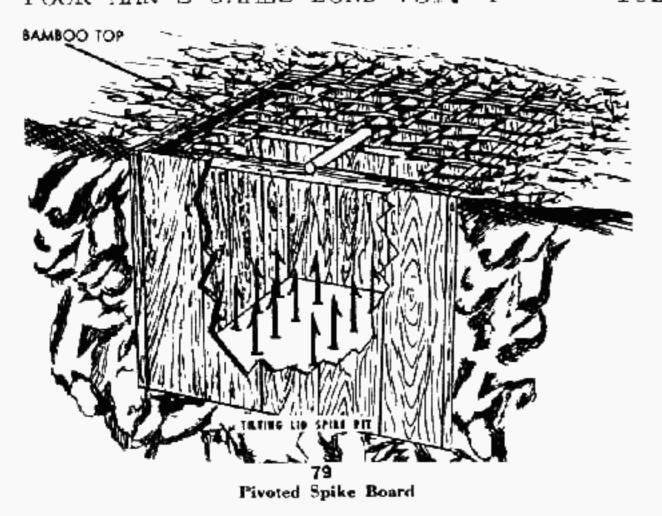
The spike board pit is simply a small pit the bottom of which is lined with boards through which spikes have been driven. The top of the pit is camouflaged. A person stepping on the camouflage material falls into the pit and impales his foot or feet on the spikes. These pits are generally about 18 inches square and 12 inches deep.



Tilting Lid Spike Pit

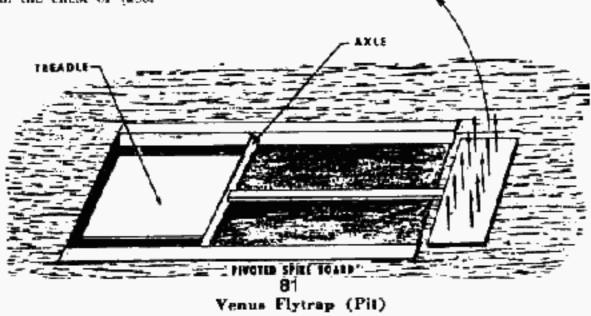
GENERAL DESCRIPTION AND COMMENT

The tilting lid pit is substantially the same type of trap as the spike board pit described on page 75. The major differences are that it is much larger (about 13 feet square by 8 feet deep) and has a pivoting lid. The lid is supported in the middle by an axle; when locked in position it is strong enough to support a man's weight. When the lid is not locked, it pivots when a man steps on it and the man drops into the pit onto the boards with spikes that cover the bottom. The lid, which is counterbalanced, then swings back to its original position. Because of the pit's depth, the walls are shored up with boards or logs to prevent cave-ins.



GENERAL DESCRIPTION AND COMMENT

The pivoted spike board is used with a foot pit. When a person steps on the treadle (shown in the illustration), the board with driven spikes pivots about an axle. As the victim drops into the pit, the spike board strikes him in the chest or face.



GENERAL DESCRIPTION AND COMMENT

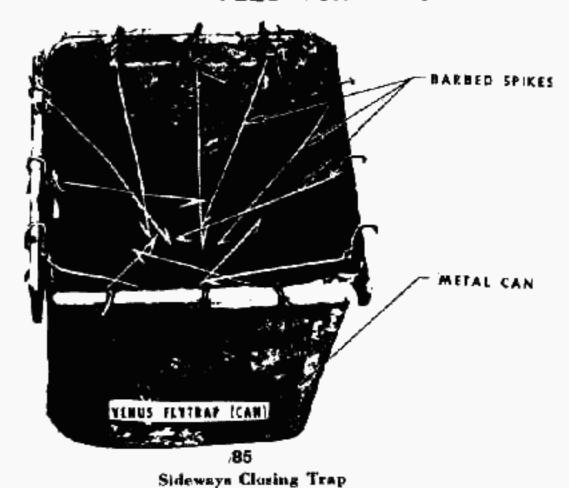
The Venus flytrap (pit) consists of a rectangular framework with overlapping barbs emplaced over a pit on trails or in rice paddies. The dimensions of such devices vary; the one illustrated is approximately 8 by 22 inches. The barbs are angled downward toward the pit, thus making any attempt to extract a leg exceedingly difficult. If a person steps into one of these flytraps, he should cautiously hend the barbs down or cut them before attempting to pull his leg out.



GENERAL DESCRIPTION AND COMMENT

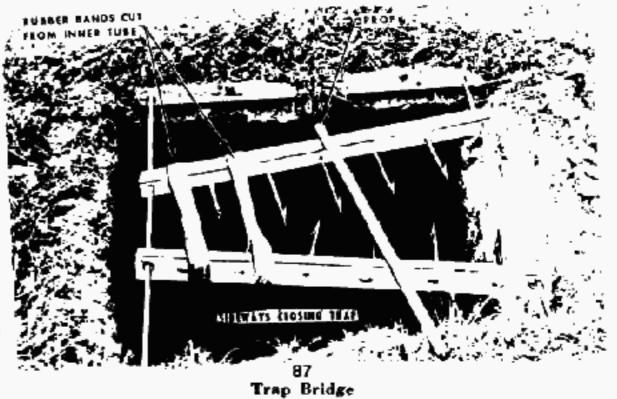
Venus Flytrop (Can)

The Venus flytrap (can) is a variation of the Venus flytrap (pit) described on page 81. The flytrap illustrated is constructed of a metal container. An individual trapped in one of these devices should cut off or bend the barba dewnward before making any attempt to withdraw his leg.



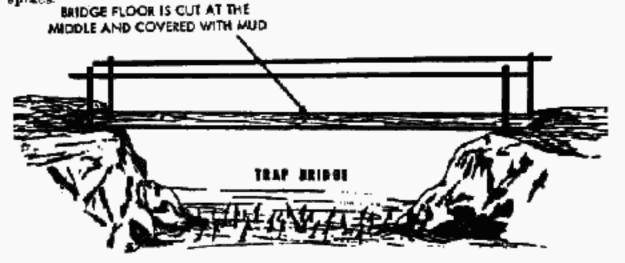
GENERAL DESCRIPTION AND COMMENT

The sideways closing trap, another variety of the spike trap, consists of two wood strips, each studded with barbed spikes, sliding along a pair of guide rods and aprung together by two large rubber bands cut from an automobile inner tube. A wooden prop keeps the spike-studded wood strips apart and stretches the rubber bands. The device is placed in the top of a pit (about 4 feet deep) and camouflaged. As a man steps on this device, he dislodges the prop, whereupon the rubber bands, no longer stretched taut, clamp the spike strips around him. The spikes rake his legs, abdomen, and chest until he stops falling. A variation of this device consists of a length of green bamboo split lengthwise, instead of wood strips, with spikes along each side of the split.



GENERAL DESCRIPTION AND COMMENT

The trap bridge is a wooden bridge boobytrapped by partially sawing through the planks and camouflaging the cut with mud. Barbed stakes are laid underneath the bridge and along the adjacent banks; anyone crossing the bridge causes it to collapse and he or they will be impaled on these spikes.

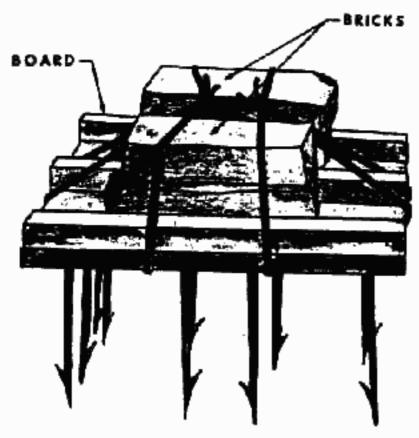


89

Suspended Spikes

GENERAL DESCRIPTION AND COMMENT

The suspended spikes device, also known as the Tiger Trap, consists of an 18-inch-square board with spikes. It is weighted with bricks and suspended from the branch of a tree overhanging a path. A tripwire stretched across the path beneath the spike board, when pulled, frees the device to fall on someone below.



SUSPENDED SPIKES

91 Spike Log (Mace)

GENERAL DESCRIPTION AND COMMENT

The spike log is approximately 8 to 10 feet long and studded with spikes. It is often left in roadside ditches where it is hidden in the grass. In another emplacement, called the Mace, the spike log is suspended from a tree branch in such a way that, when a tripwire is pulled, the log swings down along the path or trail—impaling anyone in its way.

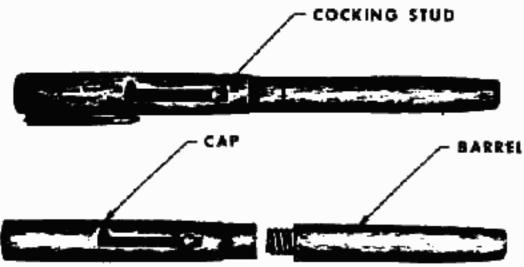


SFIRE LOS (MACE)

93 Cal. .22 Fountain Pen

GENERAL DESCRIPTION AND COMMENT

The caliber .22 fountain pen is actually a weapon which fires a .22-caliber rimfire eartridge. It is used by Viet Cong agents for assassinations. The illustration shows the pen in the uncocked position. When the device is cocked, the round stud (part of the firing pin) will be located in the notch at the left end of the slot in the cap. If the stud is pushed out of the notch, a compressed spring will drive the firing pin into the cartridge, causing it to fire. This device can be varied as a cigarette lighter.







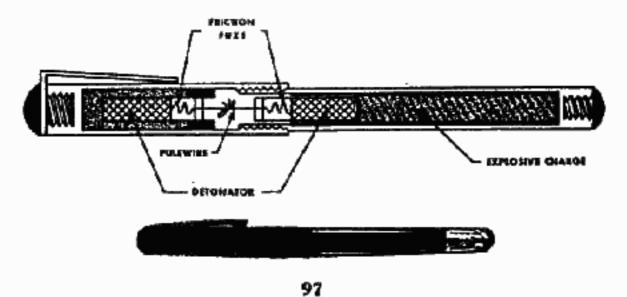
CAL. . 22 FOUNTAIN PER

95

Explosive Fountain Pen

GENERAL DESCRIPTION AND COMMENT

The explosive fountain pen is another type of boobytrap or harassing device. When the cap is unscrewed and removed from the barrel of the pen, two friction fures function and both cap and barrel explode in the hands of the person holding the pen.

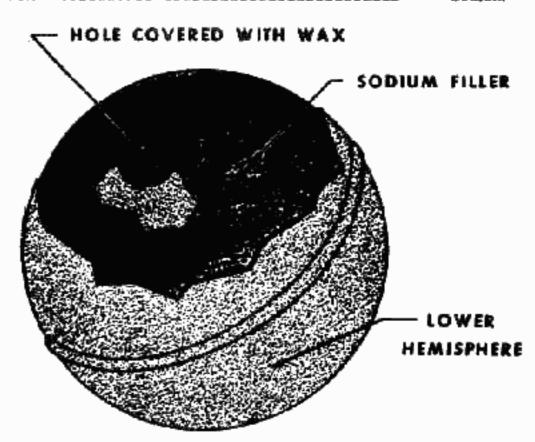


Sodium Incendiary Device

GENERAL DESCRIPTION AND COMMENT

The sodium incendiary device is constructed of two sheet metal hemispheres welded together and containing sodium suspended in a tar-like substance. The body has two holes in its outer surface. A wax and paper covering over the holes waterproofs the item when in storage. When the device is emplaced, the wax cover is removed, allowing water to contact the sodium and thereby creating heat and flame. This device is often emplaced in boat hilges and is particularly effective in any area with oil or gas seepage.

Type	Incendiary
Color	Black
Diameter	1.5 in
Weight	1.5 oz
Filler	Sodium



SODIUM INCENDIARY DEVICE