## SIGNAL ROCKET-MARK I.

## DESCRIPTION OF THE ROCKET.

The signal rocket is used at night for signaling purposes. It rises to a height of approximately 800 feet and bursts at the top of its trajectory, throwing out a star and parachute. The star gives off a red, green, or old rain.

The rocket consists of:

(a) The rocket body (H), which contains the rocket fuse (P), the rocket charge (X), the rocket body top (M), the rocket body bottom (L), and the color fuse (A).

(b) The head (B) which contains the priming powder (G), the star (U, the parachute (F), and the packing (D).

(c) The rock et stick (R).

## (a) THE ROCKET BODY (H).

cket body is a paper case 115 in hes long, with an outside diameter of 115 inches and an indice diameter of 11 inches. Th chy rocket body top (M), with the color fuse (A), is inserted in the top of the body (H), to a distance of § of an inch. The rocket charge (I) is inserted into the lower and of the body with the hollow part wn so that the upper end of the charge rests against the to (M). The rocket body bottom (L) is placed over the lower end of the charge, The rocket fuse (P) is tacked to the side of the body (H). end of the fuse is inserted into the hollow in the charge (N an the other end left loose so that it will project from the body when the cap (K) is broken. The ends of the body are sealed by two linen rocket body caps (K)

🐚 THE HEAD.

The head (B) is attached to the body (H) by a paper strip (W). The priming powder (G) is placed on top of the tap (h): the star (U) and parachute (F) are then inserted and ratiably packed in sawdust. The rocket top (S) is inserted into the head and fastened to it by the paper strip (E).

As is shown in the plate the shape of the rocket top is distinctive for each rocket according as it gives off a red, green, or gold rain. The head of the rocket is painted the color given off by the star.



## SIGNAL ROCKETS.

Nomenclature.

	Quan- tity.	Name.	Material.	Location and purpose.
A	1	Color Also	Powder	Contained in top (M). Lights priming powder (G).
B	1	Head	Paper	Attached to body (H). Contains star (U) and parachute (F).
C	6	Matches.		Carried, in wrapper. Used for lighting fuse (P).
D	••••••	Packing,	Sawdust	Pack d loosely around star (U) and prochute (F).
E F		Paper strip	Paper	Fastens op (S) to head (B).
$\mathbf{F}$		Paraclute	Japanese pa-	Contained in head (B). Holds star
G	1	Prining powder.	Powder	Between top (M) and star (U).
·				Expension tar (U) and parachute
H	7 7	Rocket body	Paper	(F) from the head (B). Contain fuse (P), top (M) and bot-
_ <del></del>				ton (L).
K	2	Rocket body caps.		Fastened over ends of body (H). Hold rocket charge (N) in place.
$\mathbf{L}$	1	Rocket body bot- tom.	Clay	Hold Tocket charge (N) In place.
M	L i	Rocket body top.		Do.
N		Rocket charge	Powder	Contained in body (H). Propels
P	1	Rocket fuse		Attached to body (H). Lights charge (N).
X	1	Rocket stick	. Wood	Attached to socket (V). St adies
S T	1	Rocket top	do	Plugs and of head (B).
Т	1	Spring	Steel .	Between body (H) and socket (V). Holds stick (R) in place
U	1	Star	Chamicals	In head (B). Gives off ed, g een,
V	1	Stick socket	. Par ar	Attached to body (H). Jolds stick (R).
w	$ \cdot  \cdot 1$	Strip		Fastens head (B) to body (H).

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