

SENDER WILL CHECK CLASSIFICATION ON TOP AND BOTTOM			
<input checked="" type="checkbox"/> UNCLASSIFIED	<input type="checkbox"/> CONFIDENTIAL	<input type="checkbox"/> SECRET	
CENTRAL INTELLIGENCE AGENCY OFFICIAL ROUTING SLIP			
TO	NAME AND ADDRESS	INITIALS	DATE
1		JWP	1/10/61
2	210 West 10th Bldg.		
3			
4			
5			
6			
<input type="checkbox"/>	ACTION	<input type="checkbox"/> DIRECT REPLY	<input type="checkbox"/> PREPARE REPLY
<input type="checkbox"/>	APPROVAL	<input type="checkbox"/> DISPATCH	<input type="checkbox"/> RECOMMENDATION
<input type="checkbox"/>	COMMENT	<input type="checkbox"/> FILE	<input checked="" type="checkbox"/> RETURN
<input type="checkbox"/>	CONCURRENCE	<input checked="" type="checkbox"/> INFORMATION	<input type="checkbox"/> SIGNATURE
Remarks: Per our telecon — or Ralph may have an interest. Any interest: Joe <i>[initials]</i> Ralph <i>[initials]</i> Return to JWP. This is only an idea and an actual record does not exist.			
FOLD HERE TO RETURN TO SENDER			
FROM: NAME, ADDRESS AND PHONE NO.			DATE
OC-E/LIAISON 			26 SEP 1961
<input checked="" type="checkbox"/> UNCLASSIFIED	<input type="checkbox"/> CONFIDENTIAL	<input type="checkbox"/> SECRET	

14 September 1961

File

General

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Attention:

Subject: (Solid Fuel Cutting Torch)

Dear

25X1

In accordance with our conversation yesterday I am enclosing information on the Solid Fuel Cutting Torch. The attached figures depict two torch sizes - one with four minutes burning time, and one with seven minutes burning time. The same design data used in these torch designs may also be applied to any size cutting torch. For example, it would be possible to design a much lighter and smaller cutting torch capable of burning 15 to 30 seconds.

I believe the attached sketches are pretty much self explanatory. The four minute torch shown has been sized to provide sufficient heat to cut through a three inch steel plate at the rate of nine to ten inches per minute. Figure 2 shows design details of the nozzle and blow-out vents. A standard fuse lighter has been provided in the cutting torch design. To ignite the torch the moisture proof seal is removed, the fuse is threaded in the fuse lighter, and the fuse lighter ring pulled. In this particular design a blow-out provision is also made in the event over pressurizing should occur within the nozzle chamber. The design pressure is 100 psi, which permits a convergent nozzle to be used and insures a low diameter jet of intense heat. (Approximately 4500°F) As we discussed yesterday, I would appreciate your bringing the enclosed information to the attention of the proper people. If there are any questions, or if you would like to see a design for a particular requirement, we would be most happy to supply it.

Thanks very much for the time you spent with me yesterday, and I look forward to seeing you again.

Very truly yours,

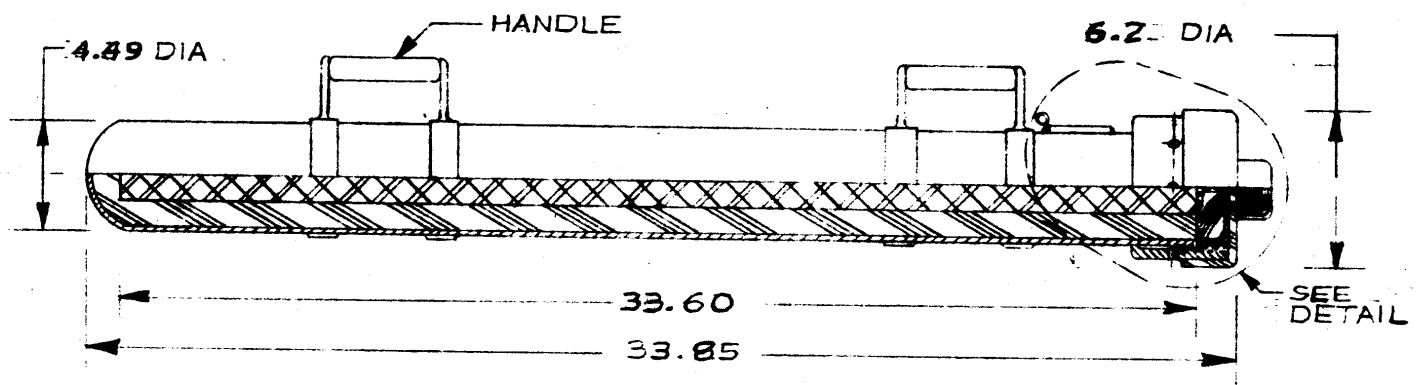
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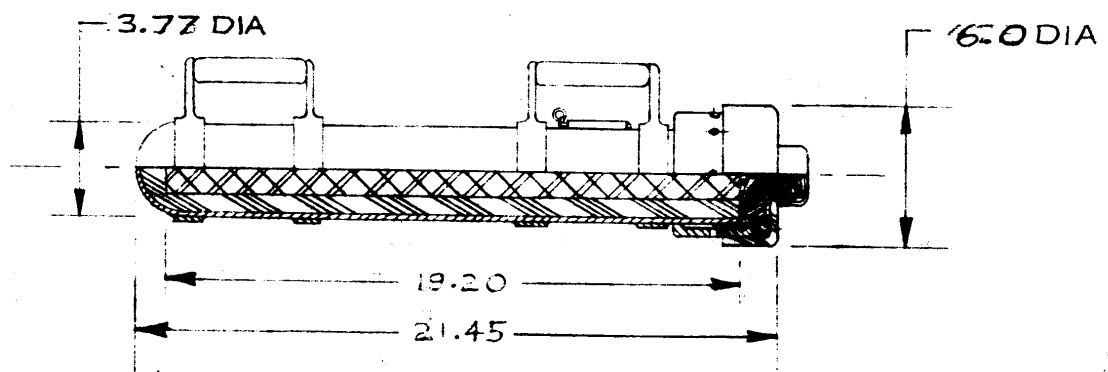
Technical Representative: 235979

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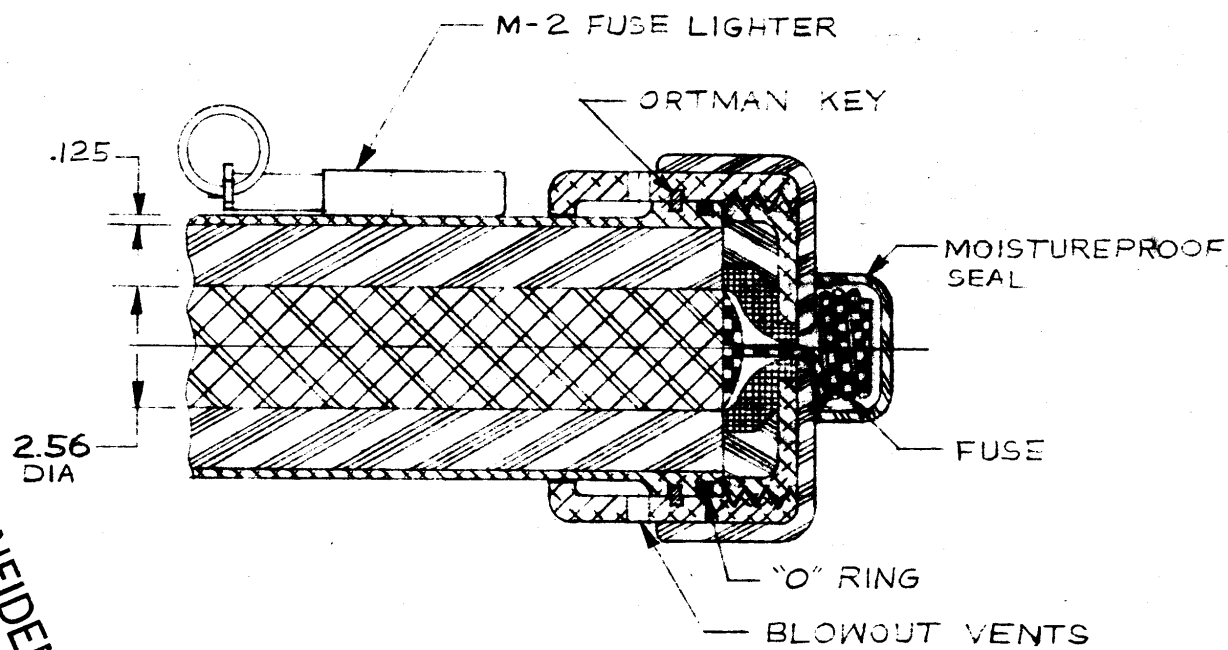
7.0 MINUTE BURNING TIME

WEIGHT **29.9 LB.**
SCALE 5:1



4.0 MINUTE BURNING TIME

WEIGHT **15.2 LB.**
SCALE 5:1



DETAIL OF NOZZLE & BLOWOUT VENTS

Fig 2
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