

$\frac{S'}{S}$ " Irene Maria " $\frac{b}{b}$
Rotterdam Report 26 410 .

"WILTON-FIJENOORD"
SCHIEDAM

RETAIN



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W401-0202 (1111)

ROTTERDAM, 10th January 1938.

CAUSTIC EMBRITTLEMENT.

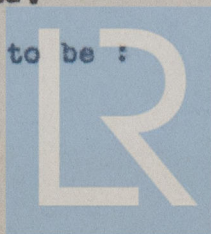
3/5 Irene Maia.
Report N° 26410

- Photo page No. 1 : Wrapper plates and furnace plates.
Numbers on same are corresponding with sketch
on pages 15 & 16.
- Photo page No. 2 : ditto.
- Photo page No. 3 : wrapper plate starboard.
- Photo page No. 4 : plate broken by one stroke of a hammer to
show the amount of sound material. (a & b).
- Photos Nos. 5 & 7 : showing that the cracks commenced in the
rivet holes and finished in the middle of
of the plate.
- Photos Nos. 6 & 8 : showing the directions of cracks.
Micro photo 100 X.
- Photos No. 9 : Showing position of test pieces on
plate No. 2.
- Photos No. 10 : Results of tests on plate No. 2.
- Photo No. 11 : showing cracks in rivets.
- Photo No. 12 : rivets from shell & furnace.
- Photo No. 13 : sulphur print butt strap inside and
outside.
- Photo No. 14 : ditto of rivet hole.
- Photos Nos. 15 & 16: showing repairs and the numbers where the
plates for testing have been taken.

When the wrapper plates were removed a white
substance was found between plates.

Same analysed and found to be :

51.5 % Ca Co₃
19 % Fe₂ O₃.

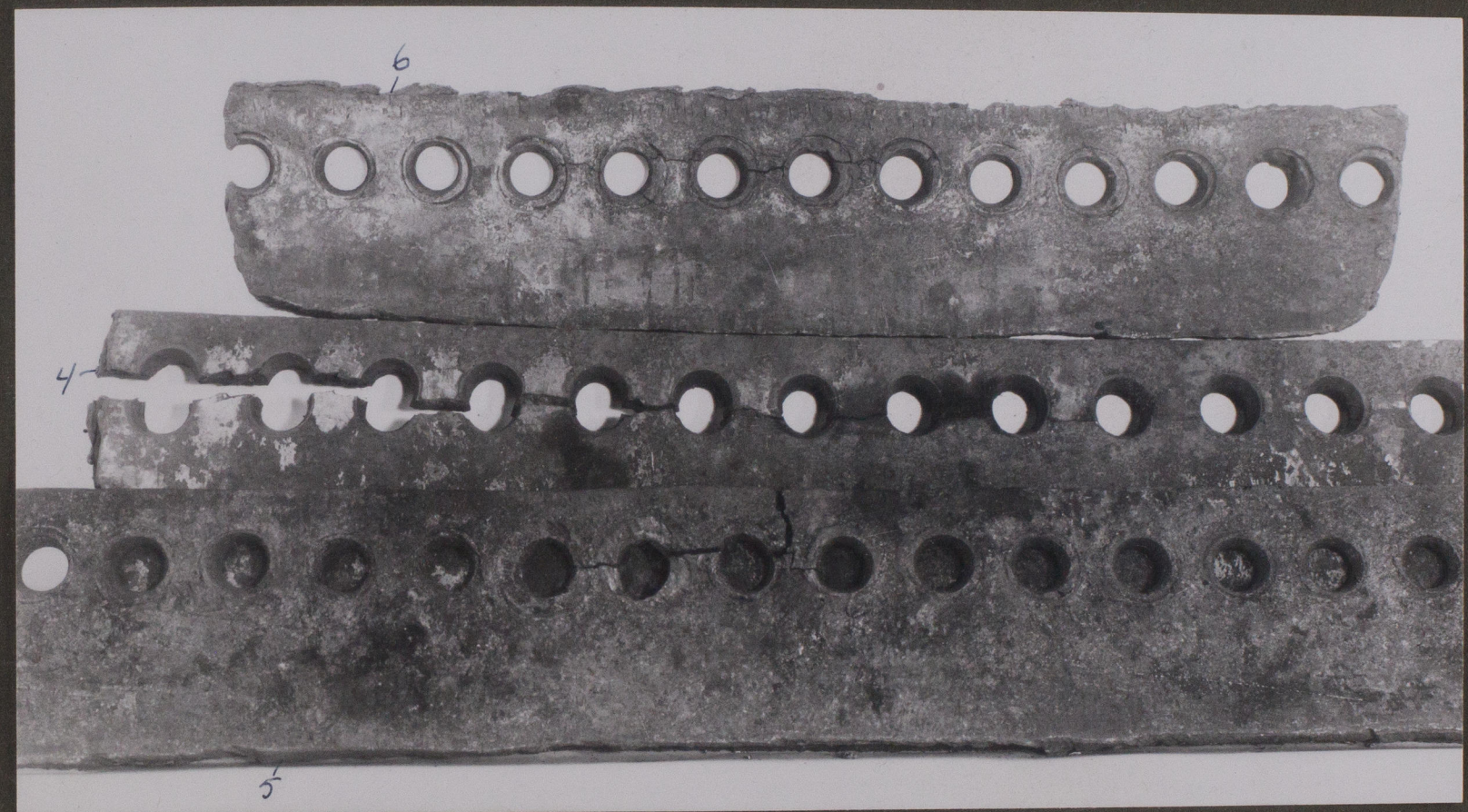


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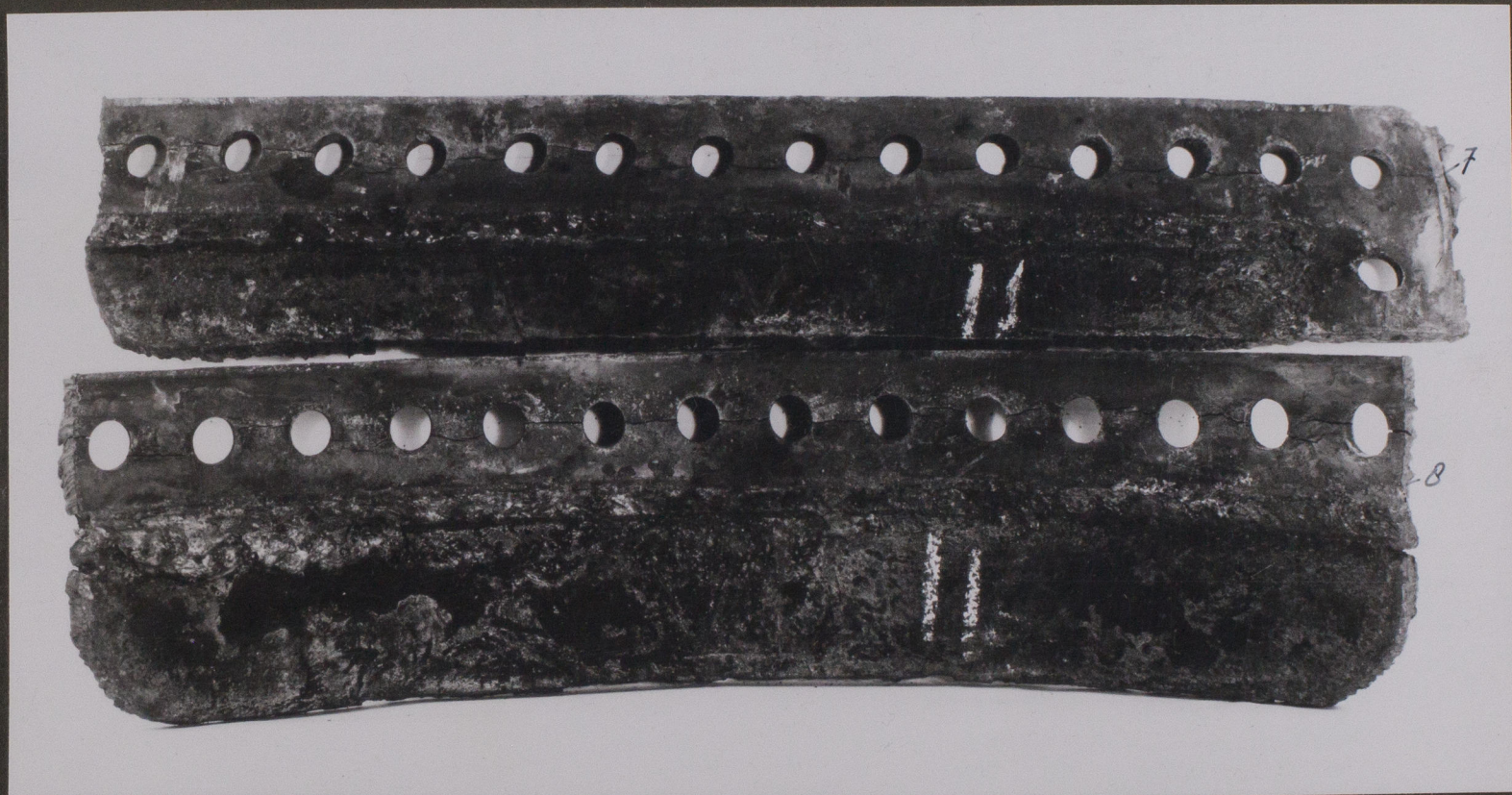
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W401-0202 (2) (1)

№ 1.



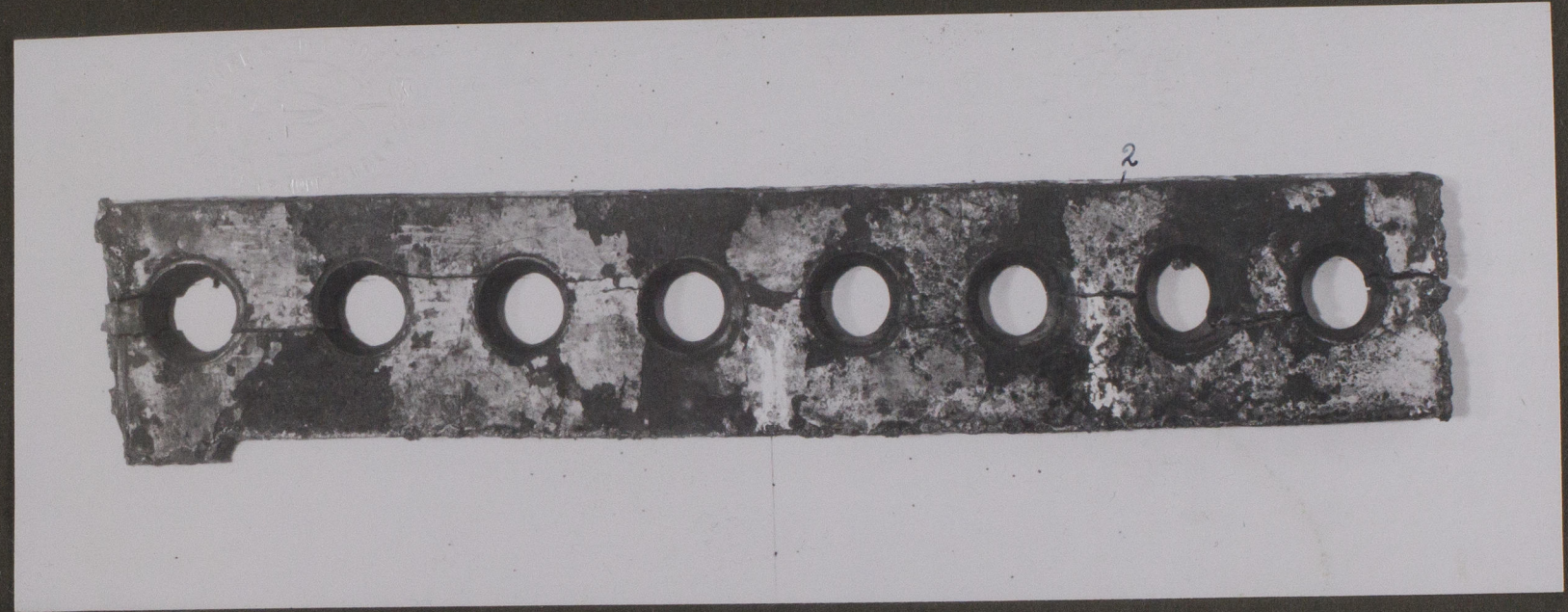
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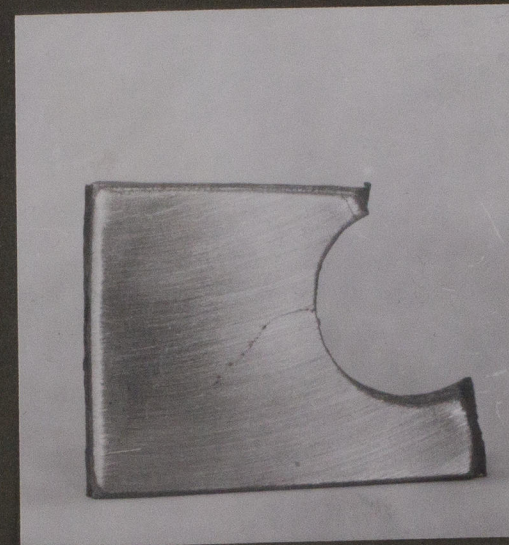
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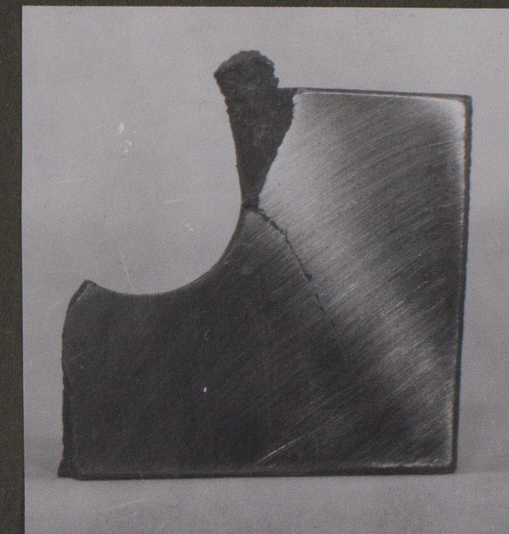
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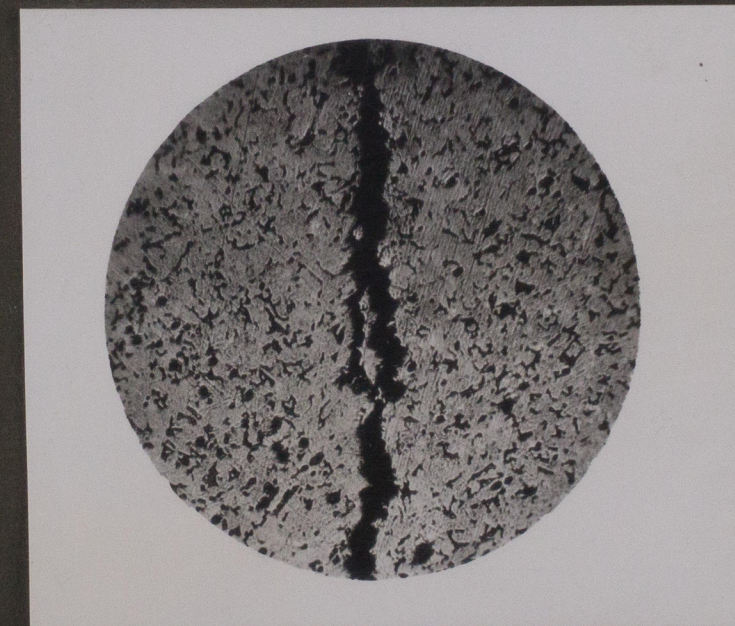
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№ 5.



№ 7.



№ 6.



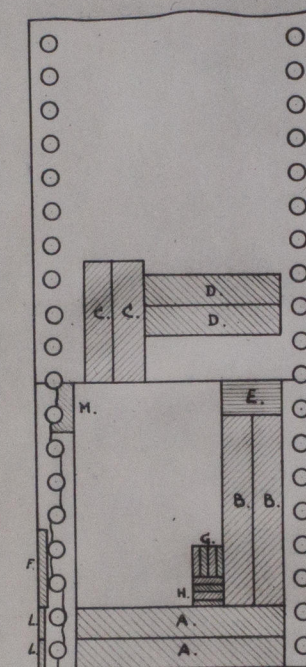
№ 8.

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No 9.



- A. TENSILE TESTS, ATHWART
- B. TENSILE TESTS, LONGITUDINAL
- C. BENDING TESTS, LONGITUDINAL
- D. BENDING TESTS, ATHWART
- E. HARDNESS TEST, BRINELL
- F. TENSILE TEST NEAR FRACTURE
- G. IMPACT SHOCK TESTS, LONGITUDINAL
- H. IMPACT SHOCK TESTS, ATHWART
- L. IMPACT SHOCK TESTS NEAR FRACTURE
- M. MICROSCOPIC TEST

No 10.

LABORATORIUM WILTON-FIJENOORD, SCHIEDAM

MERK	AFMETINGEN PROEFSTAAF IN m.m.					VLOEIGRENS		TREKSTERKTE		REK		CON- TRAC- TIE %	BUIG- PROEF	BRINELL HARD- HEID 3000/30/10 500	SLAG- ARBEID K.G.M.c.m. ²	OPMERKINGEN
	Diam.	Breedte	Dikte	Oppervlak	Meet- lengte	Totaal in K.G.	In K.G.m.m. ²	Totaal in K.G.	Per K.G.m.m. ²	In m.m.	%					
	25,-	18,6	465	200	12900	27,8	18400	39,6	46,-	23,-		180°	116	5,2	}	Dwaars
	25,-	18,3	458	200			18450	40,3	45,8	22,9		180°	118	7,1		
														7,6	}	
	25,-	18,6	465	200			18100	38,9	52,-	26,-		180°		22,-		
	25,-	18,3	458	200	12000	26,2	18500	40,4	51,-	25,5		180°		21,9	}	Lange
														14,2		
	17,3	18,3	316	100			14000	44,3	23,4	23,4		180°		18,8	}	Proeven genomen bij breuk (lange)
														17,8		

Aldus gedaan den 16.11. 1937
In tegenwoordigheid v.d. Hr. Doufice

No 11.

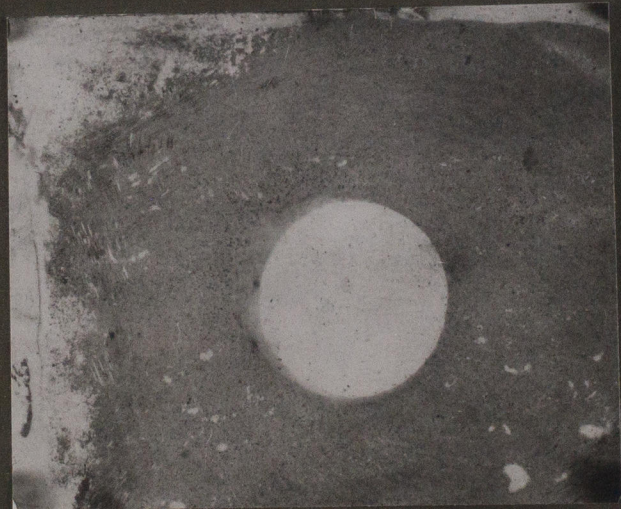


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No 12.



No 13.

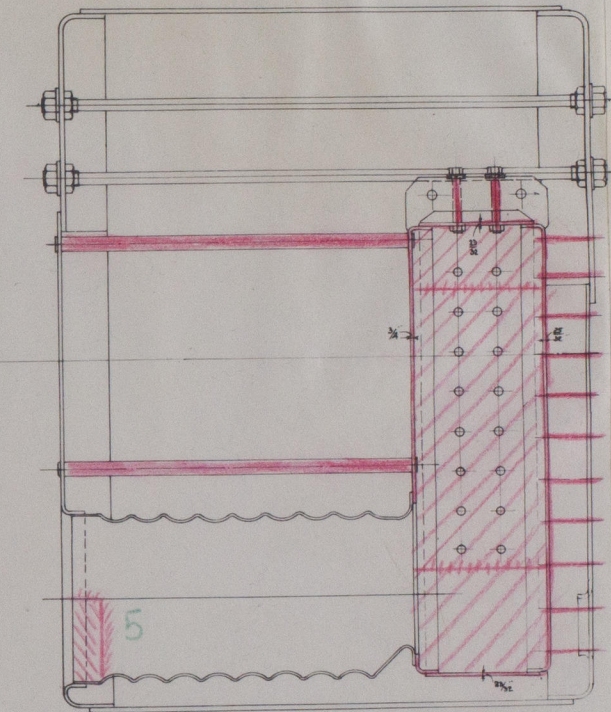
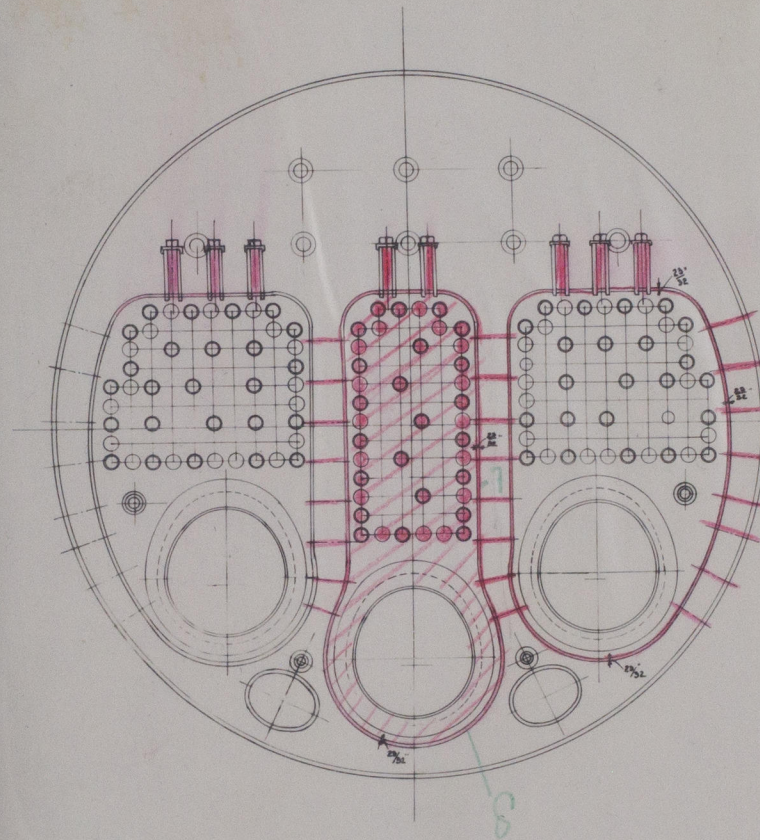


No 14

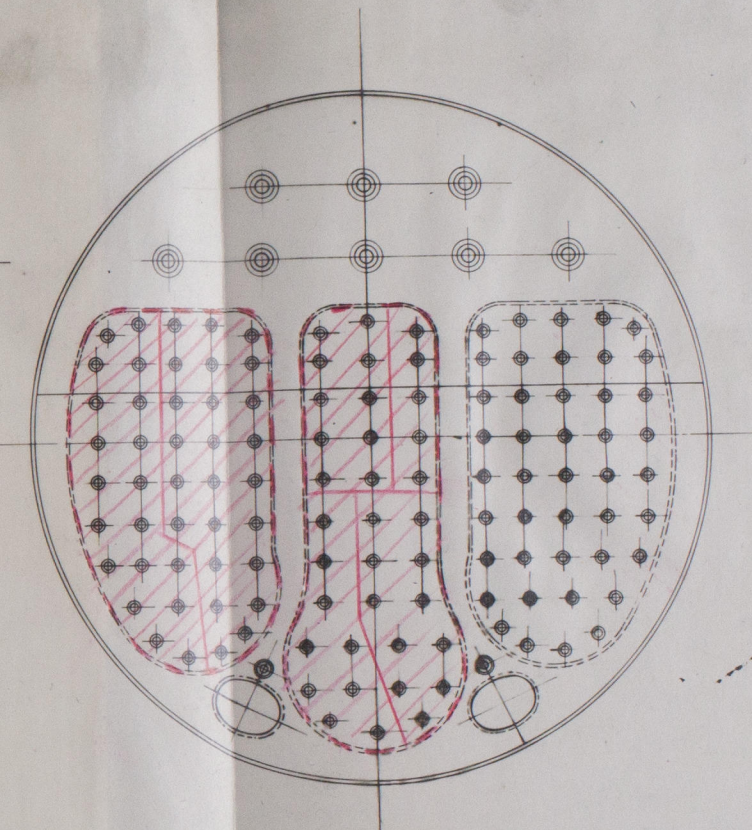


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No 15.



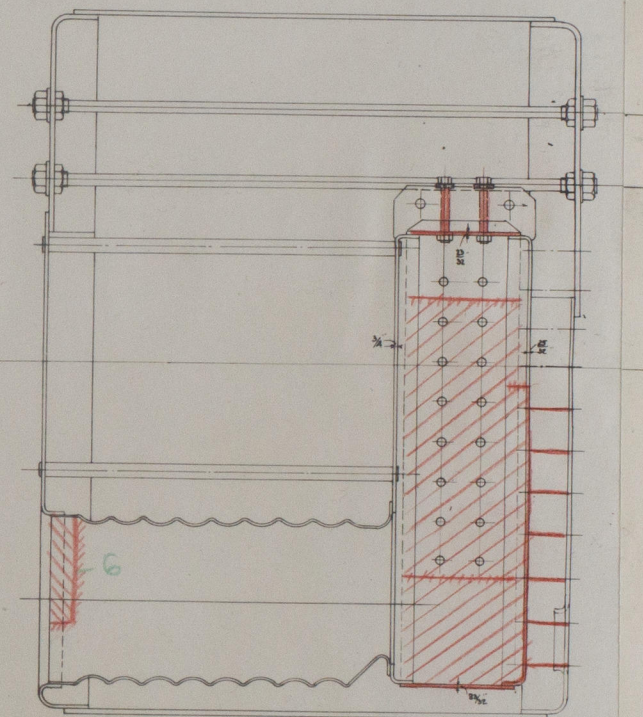
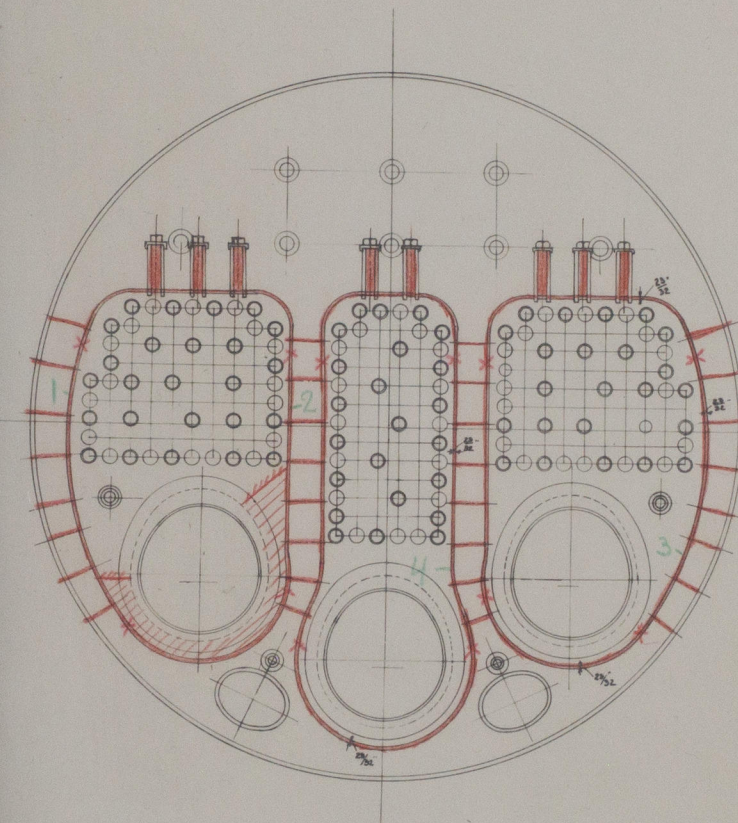
PORT BOILER.



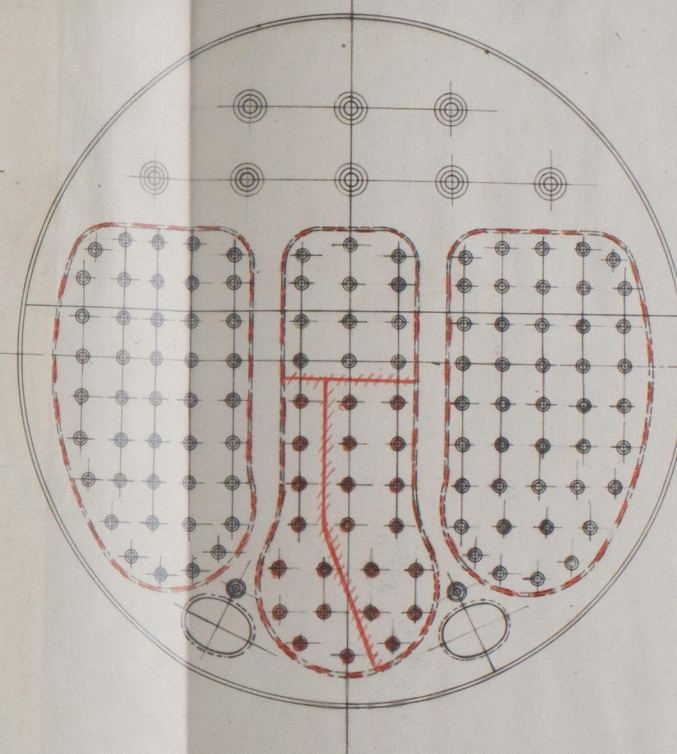
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No 16.



S.B. BOILER



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