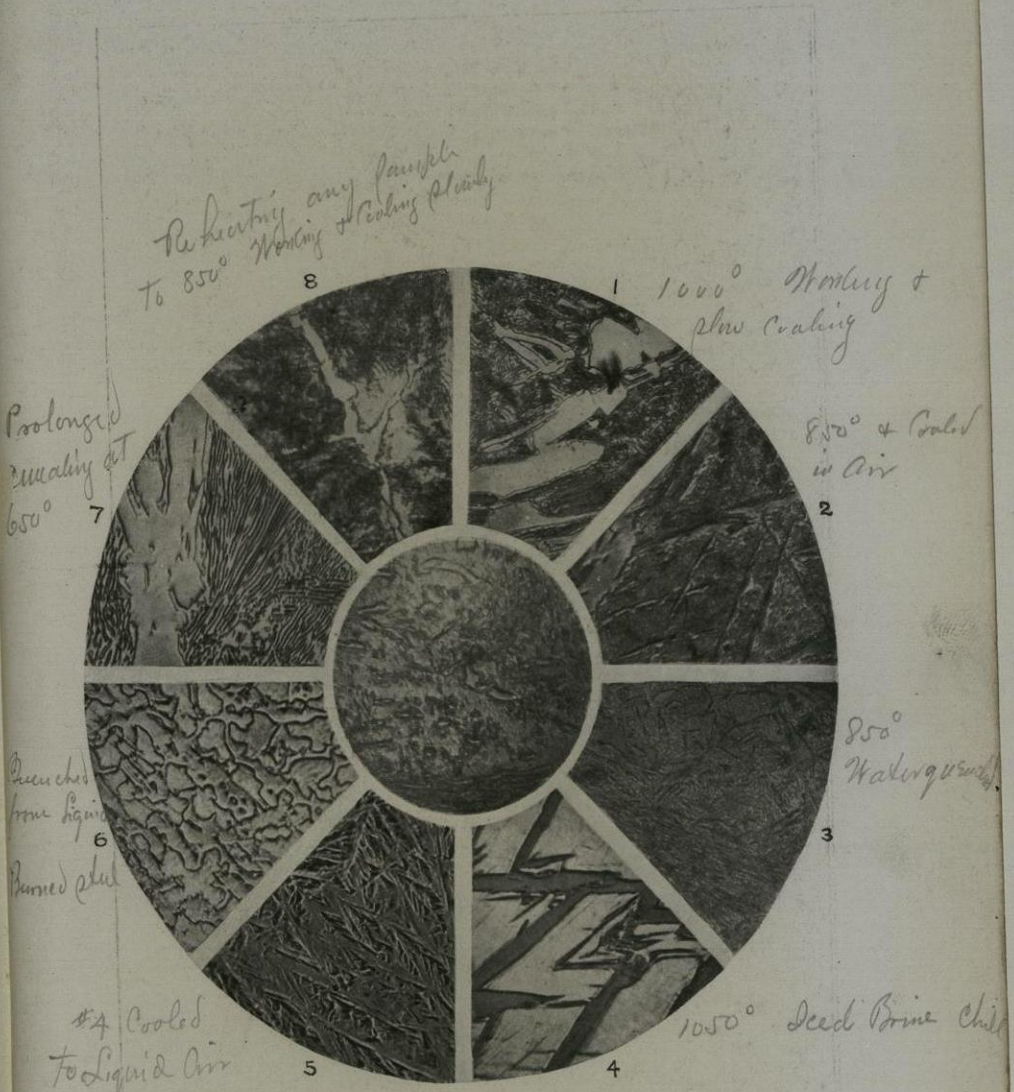




**B**—Slowly cooled phosphor bronze, heat tinted, showing copper (red), non-homogeneous solution of tin in copper (shading from white to blue-grey) and phosphide of copper (yellow).



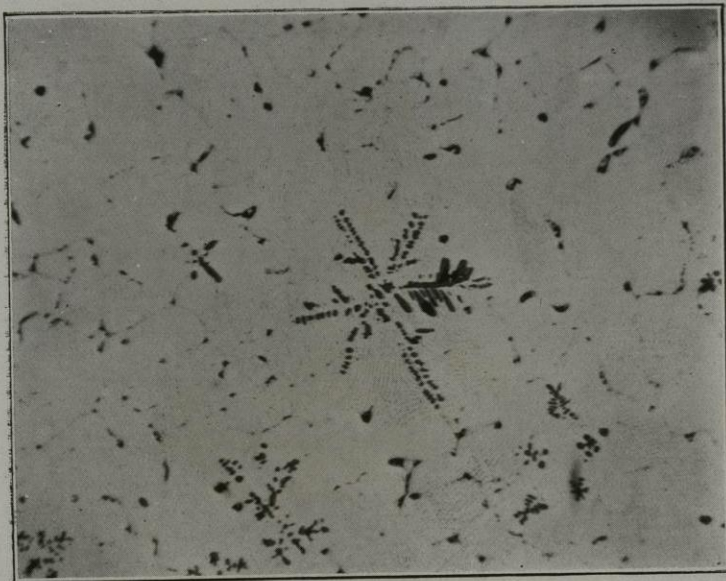
**A**—Grey Iron containing 2 per cent silicon and 1 per cent phosphorus, heat tinted, showing graphite (black), solid solution of silicon in iron (yellow), and phosphide of iron (blue).



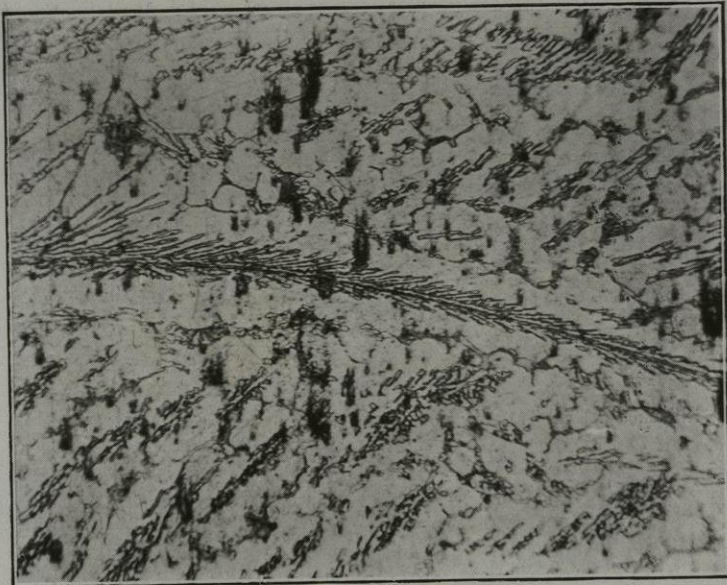
Influence of Heat Treatment on Steel containing 1.5 per cent. of Carbon.

No. 1.

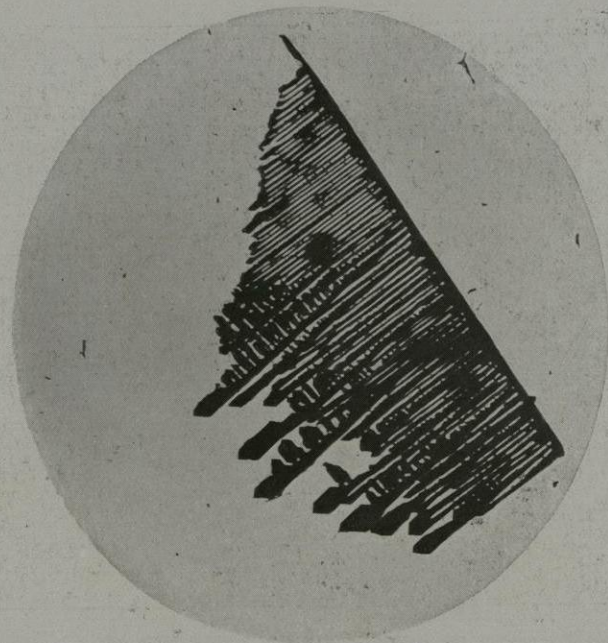
*In page 16 -*



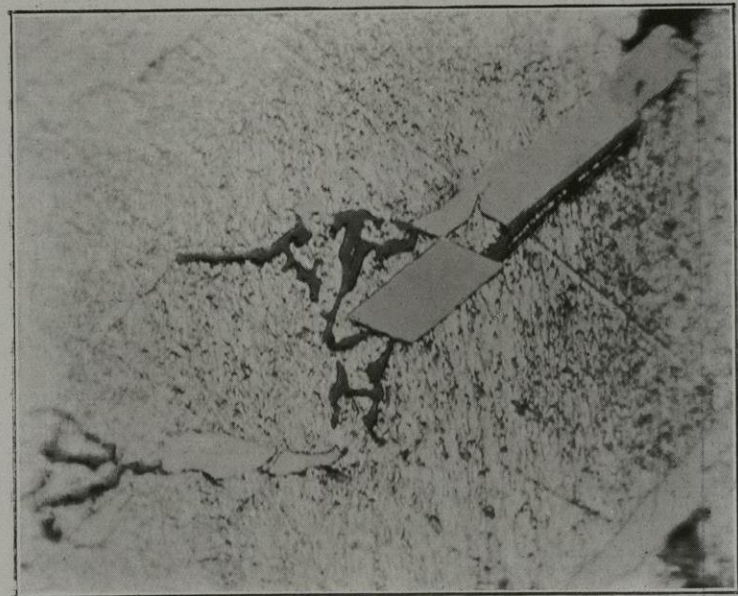
Crystallite Structure.  $\times 1000$ .  
No. 2.



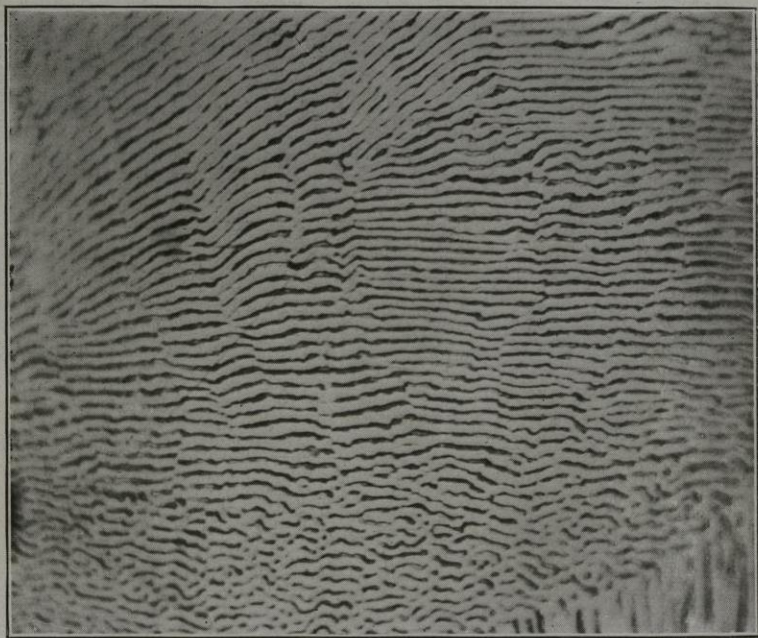
Crystallite Structure.  $\times 100$ .  
No. 3.



Metallic Crystallite separated from an Alloy by Solution in Acid.  $\times 10$ .  
No. 4.



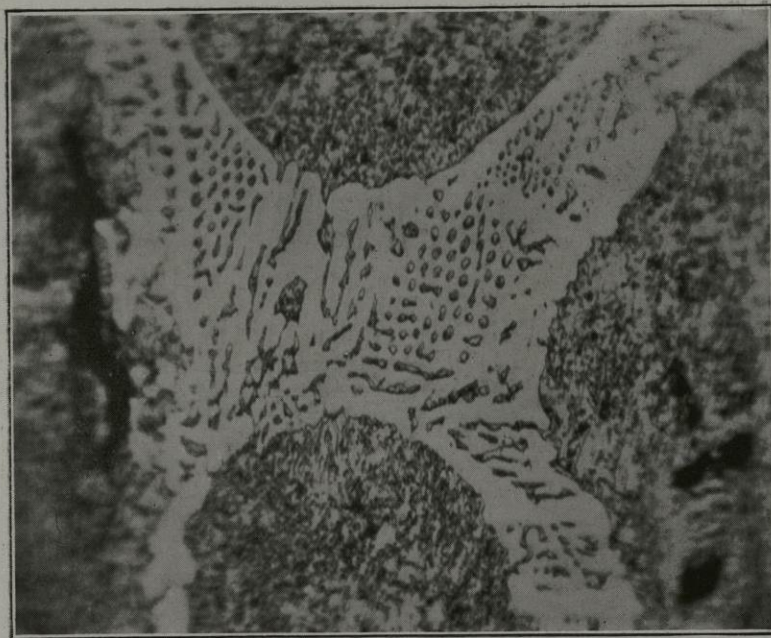
Aluminium-cobalt Alloy containing 10 per cent. Cobalt, showing Idiomorphic  
Crystal of the Compound  $Al_3Co$ .  $\times 1000$ .  
No. 5.



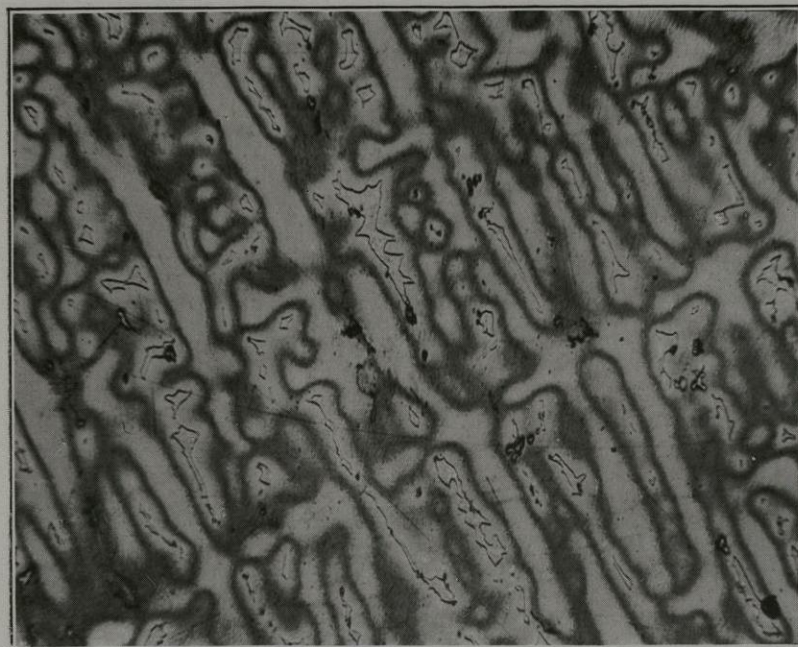
Laminated Eutectic Structure.  $\times 1000$ .  
No. 6.



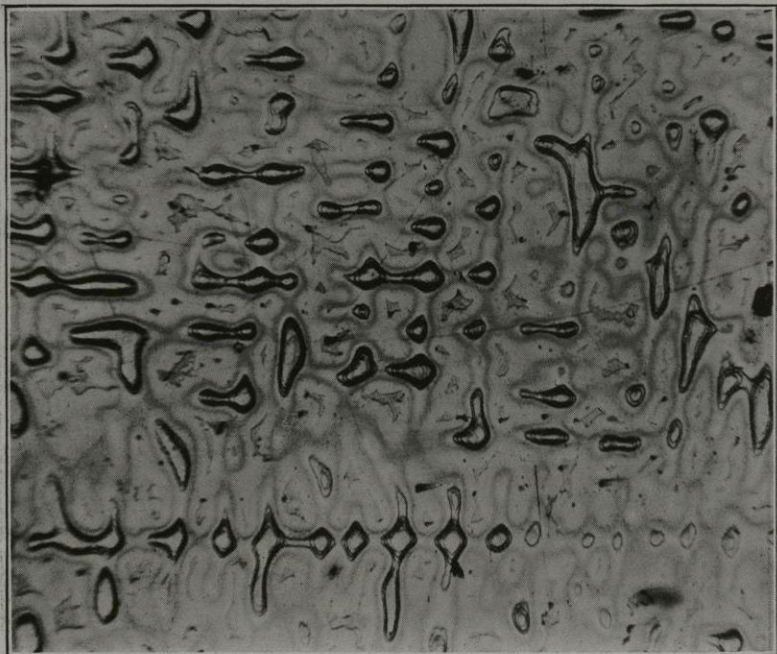
Fringe of Phospho-carbide Eutectic in Grey Iron.  $\times 1000$ .  
No. 7.



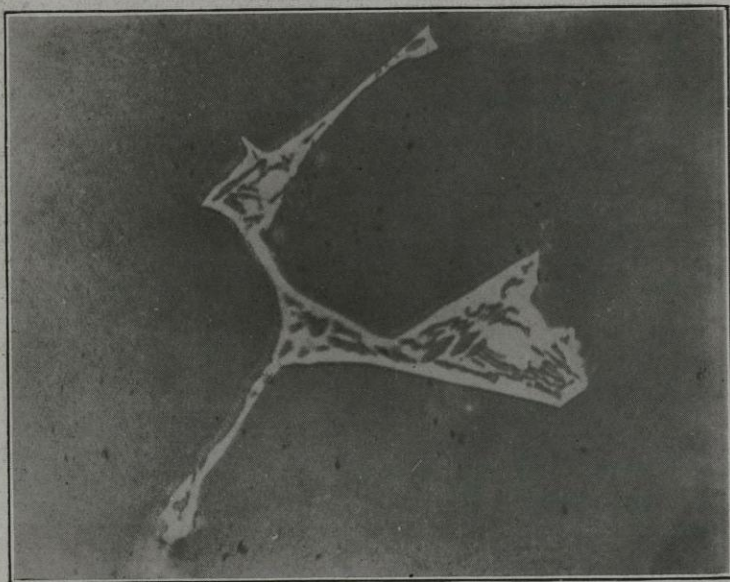
Phosphide Eutectic in Grey Iron.  $\times 1000$ .  
No. 8.



Gun-metal containing 12 per cent. of Tin, slowly cooled.  $\times 100$ .  
No. 9.



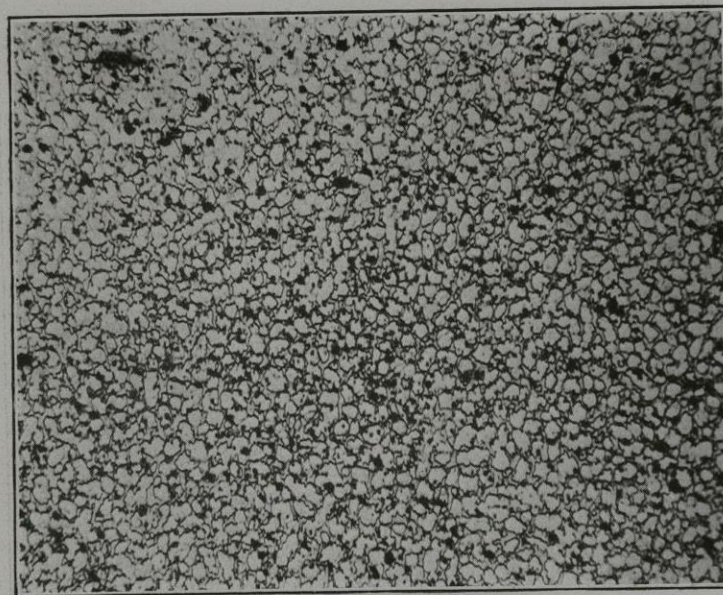
Gun-metal containing 12 per cent. of Tin, quickly cooled.  $\times 100$ .  
No. 10.



$\text{SnCu}_4$  Constituent in Gun-metal containing 12 per cent. of Tin.  
Heat tinted.  $\times 1000$ .  
No. 11.



Rolled Brass containing 30 per cent. of Zinc.  $\times 100$ .  
No. 12.



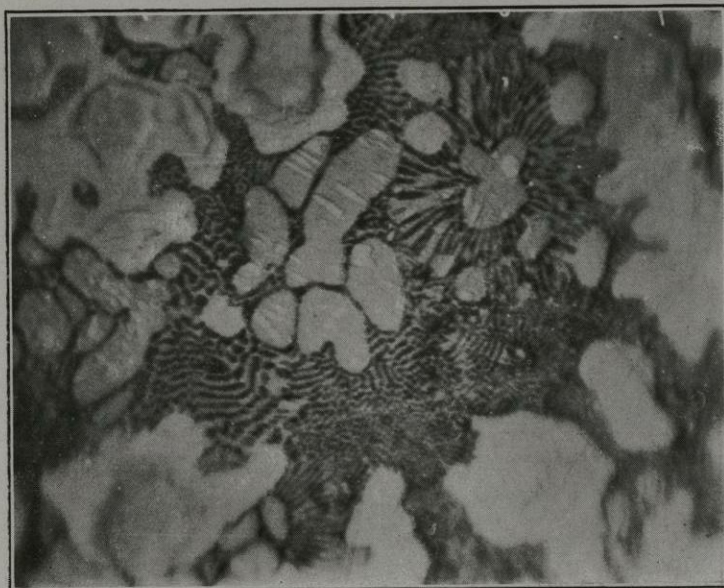
Muntz Metal, rolled  $\times 100$ .  
No. 13.



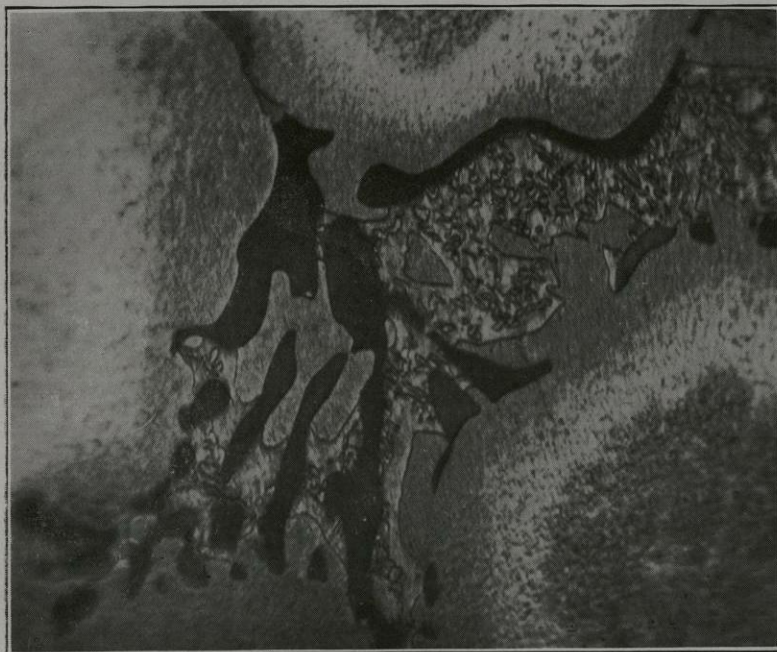
Cast Phosphor-bronze containing 10 per cent. of Tin and 0.7 per cent. of Phosphorus.  $\times 100$ .  
No. 14.



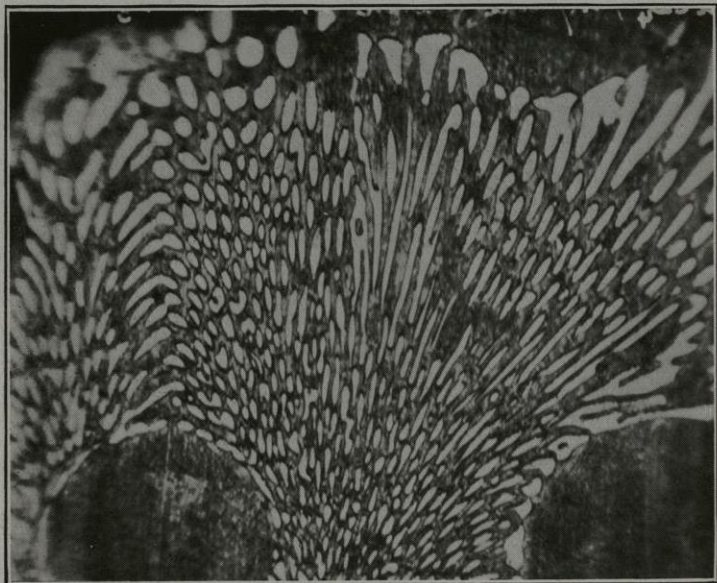
Cast Phosphor-bronze containing 10 per cent. of Tin and 1.5 per cent. of Phosphorus.  $\times 100$ .  
No. 15.



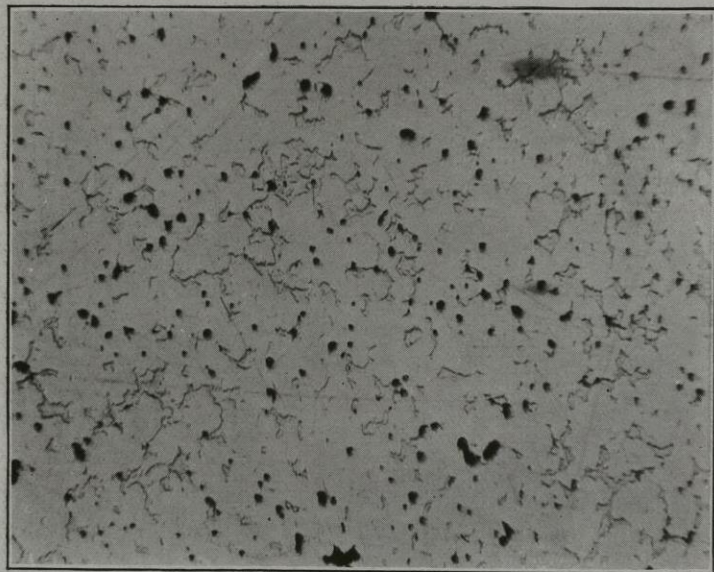
Cast Phosphor-bronze containing 1.5 per cent. of Phosphorus and 10 per cent. of Tin.  $\times 1000$ .  
No. 16.



Cast Phosphor-bronze containing 1.5 per cent. Phosphorus. Heat-tinted. The dark constituent is the phosphide.  $\times 1000$ .  
No. 17.



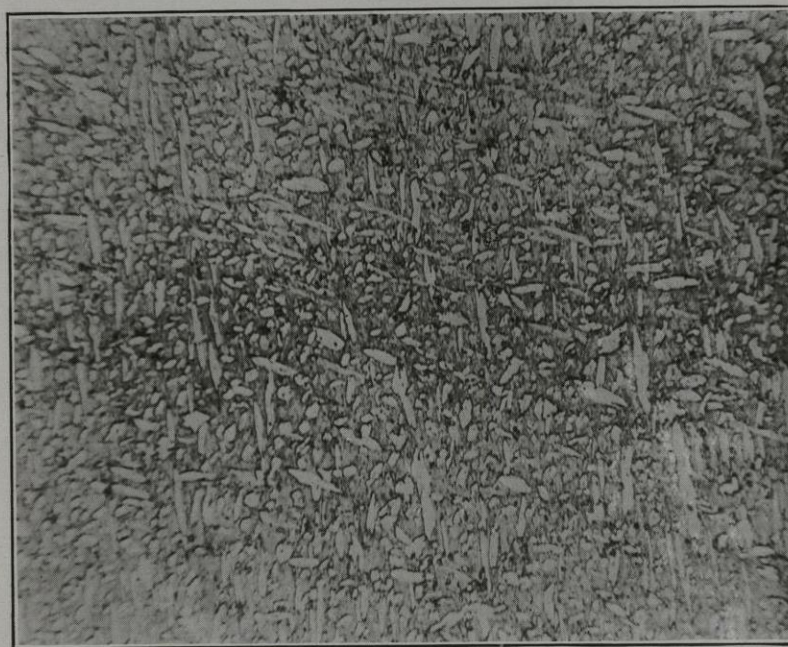
Eutectic of the two Compounds  $\text{SnCu}_4$  and  $\text{Cu}_3\text{P}$ .  $\times 1000$ .  
No. 18.



Phosphor-bronze containing Lead, unetched.  $\times 100$ .  
No. 19.



Manganese-bronze Firebox Stay containing 4 per cent. of Manganese.  $\times 1000$ .  
No. 20.



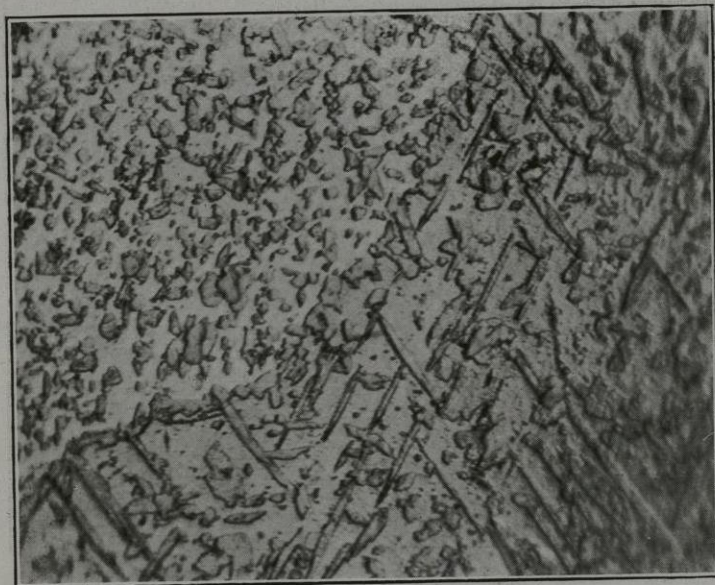
Manganese-bronze, rolled.  $\times 100$ .  
No. 21.



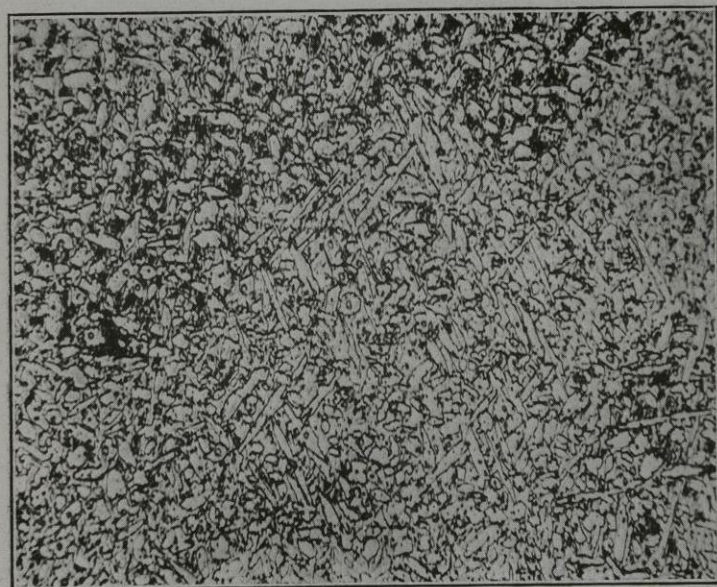
Manganese-bronze, rolled.  $\times 1000$ .  
No. 22.



"Immadium I." Bronze.  $\times 100$ .  
No. 23.



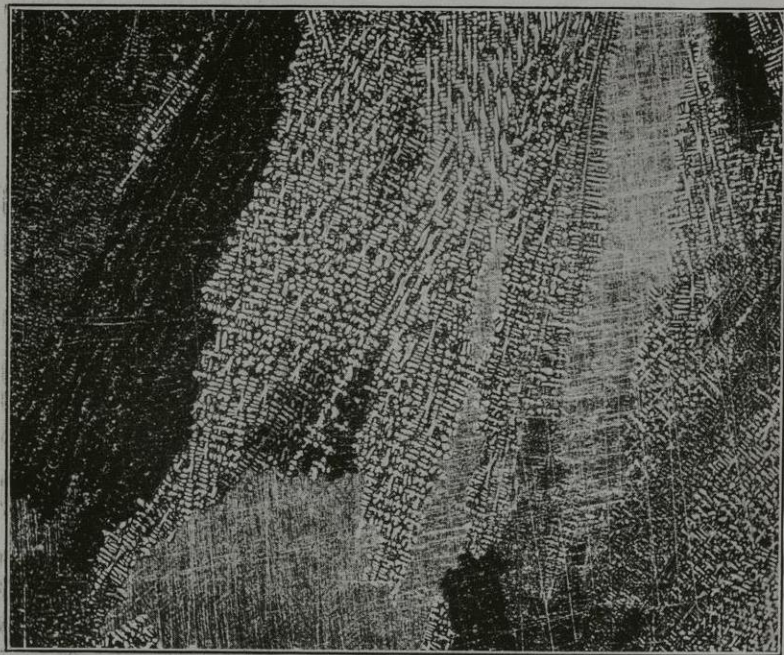
"Immadium I." Bronze.  $\times 1000$ .  
No. 24.



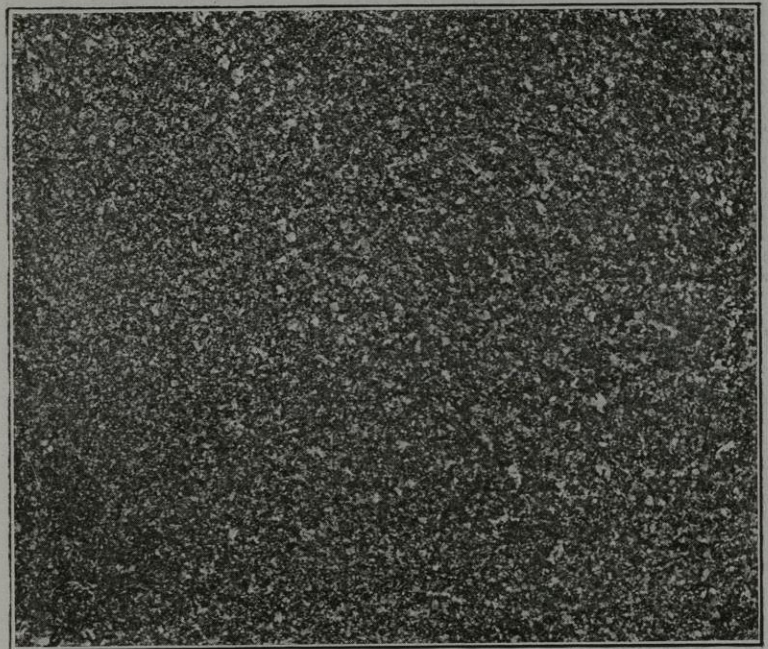
"Immadium II." Bronze.  $\times 100$ .  
No. 25.



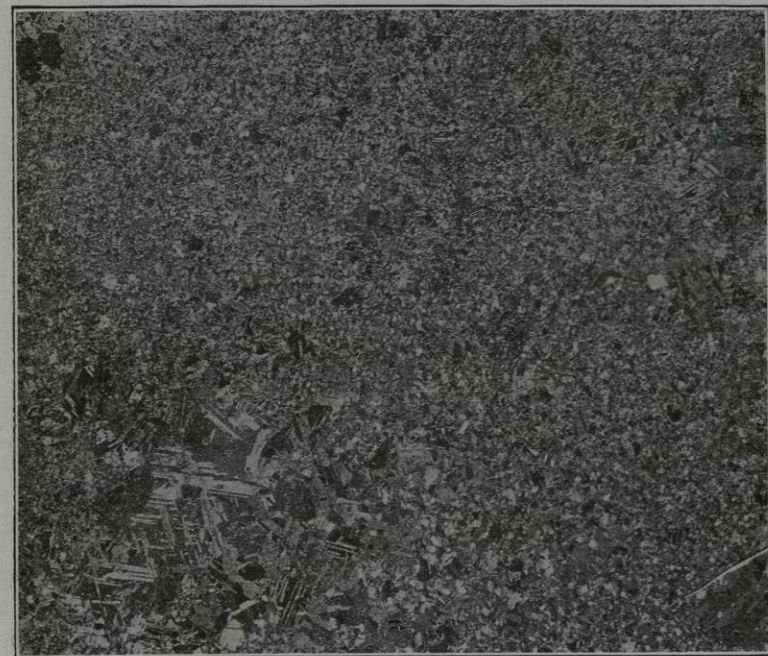
"Immadium II." Bronze.  $\times 1000$ .  
No. 26.



Aluminium-bronze containing 7.5 per cent. of Aluminium. Cast.  $\times 10$ .  
No. 27.



Rolled Aluminium-bronze containing 7.5 per cent. of Aluminium.  $\times 10$ .  
No. 28.



Aluminium-bronze containing 7.5 per cent. of Aluminium. Same  
as No. 28 after Annealing.  $\times 10$ .  
No. 29.

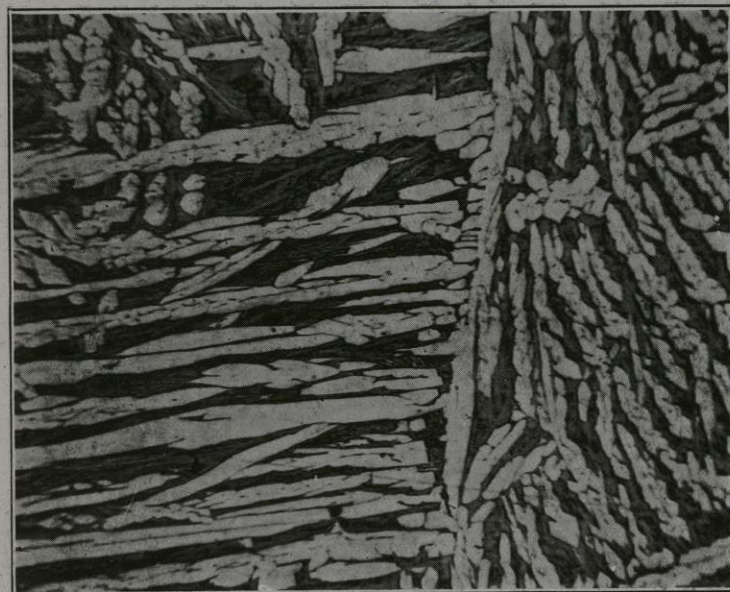




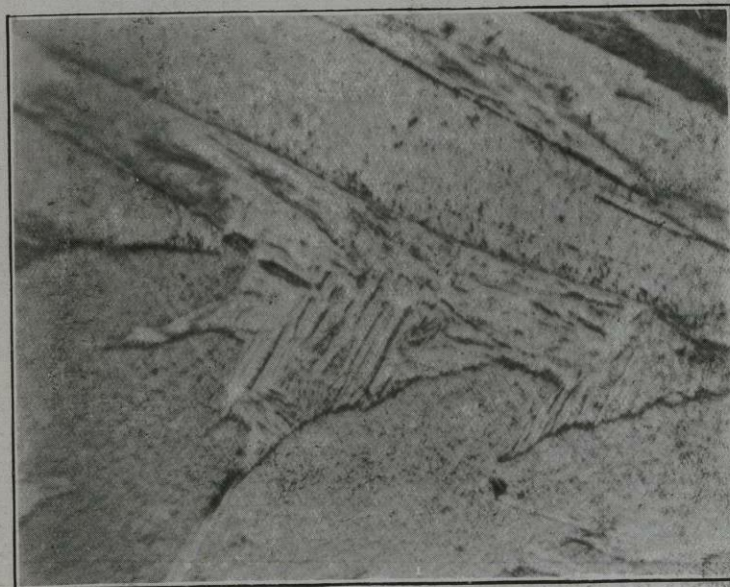
Aluminium-bronze containing 7.5 per cent. of Aluminium. Same as No. 29 after further Annealing.  $\times 10$ .  
No. 30.



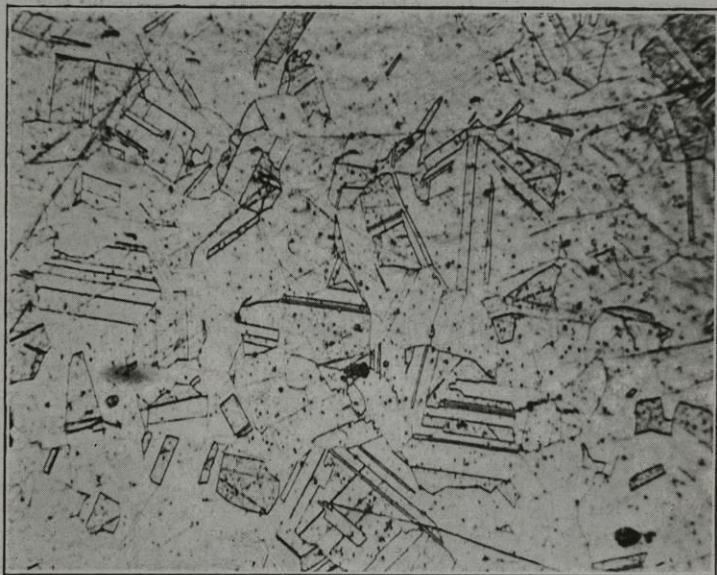
Aluminium-bronze containing 7.5 per cent. of Aluminium. Same as No. 30, but raised to a temperature near its melting-point.  $\times 10$ .  
No. 31.



Aluminium-bronze containing 10 per cent. of Aluminium.  $\times 100$ .  
No. 32.

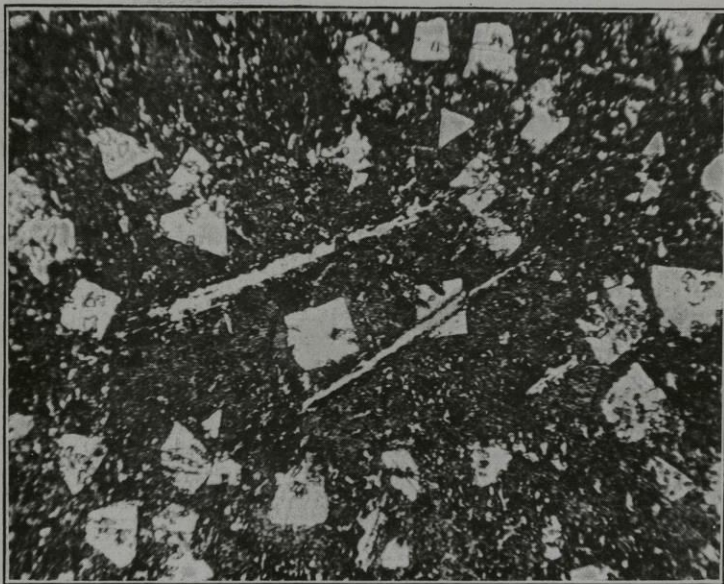


Aluminium-bronze containing 10 per cent. of Aluminium, showing the  $\beta$  Constituent.  $\times 1000$ .  
No. 33.



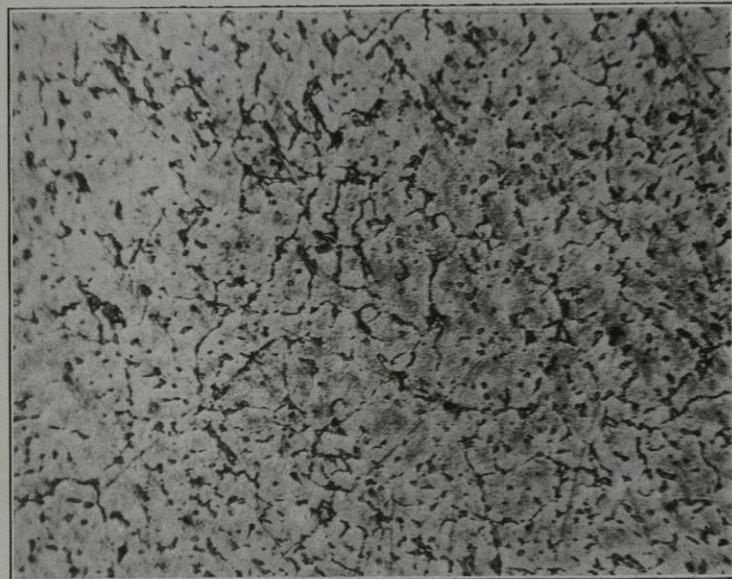
101 x Rolled German Silver.  $\times 100$ .

No. 34.



Tin-copper-antimony Bearing Metal.  $\times 50$ .

No. 35.



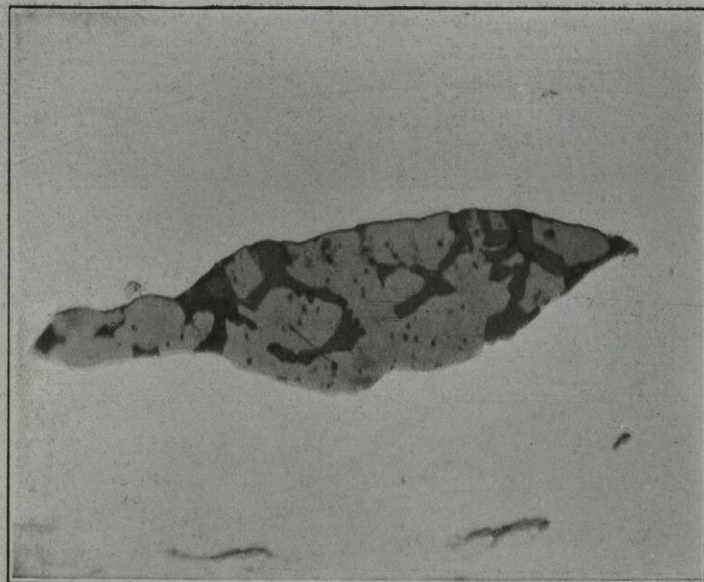
"Magnalium X," Cast.  $\times 100$ .

No. 36.

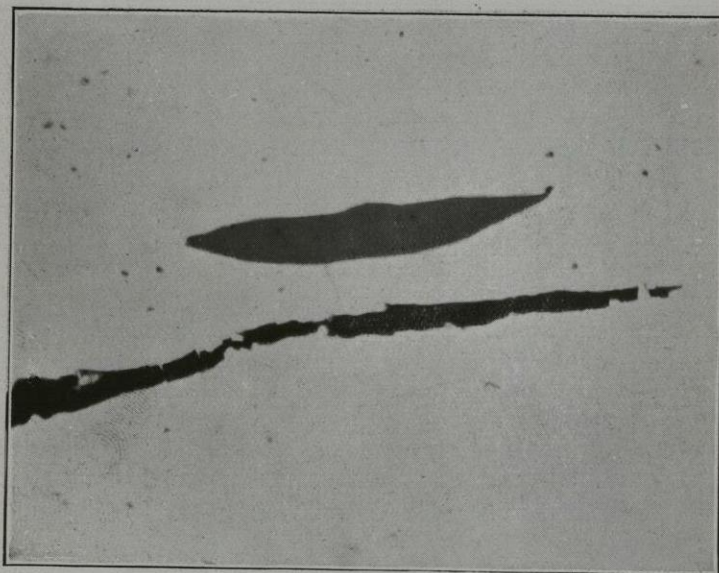


"Magnalium X," Cast.  $\times 1000$ .

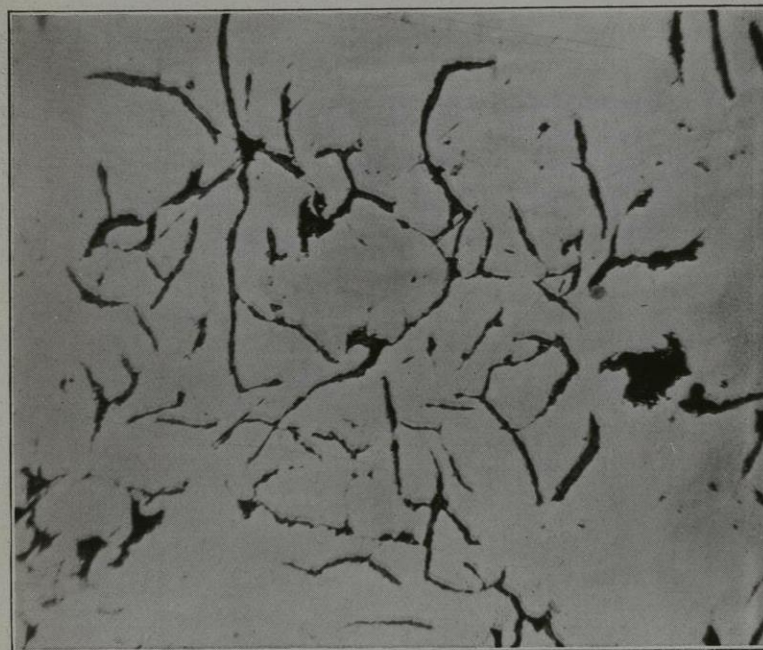
No. 37.



Manganese Sulphide and Silicate occurring together in Steel.  $\times 1000$ .  
No. 38.



Mild Steel, Unetched, showing Sulphide of Manganese (the lighter constituent)  
and Silicate of Iron.  $\times 1000$ .  
No. 39.



Graphite in Grey Iron.  $\times 100$ .  
No. 40.

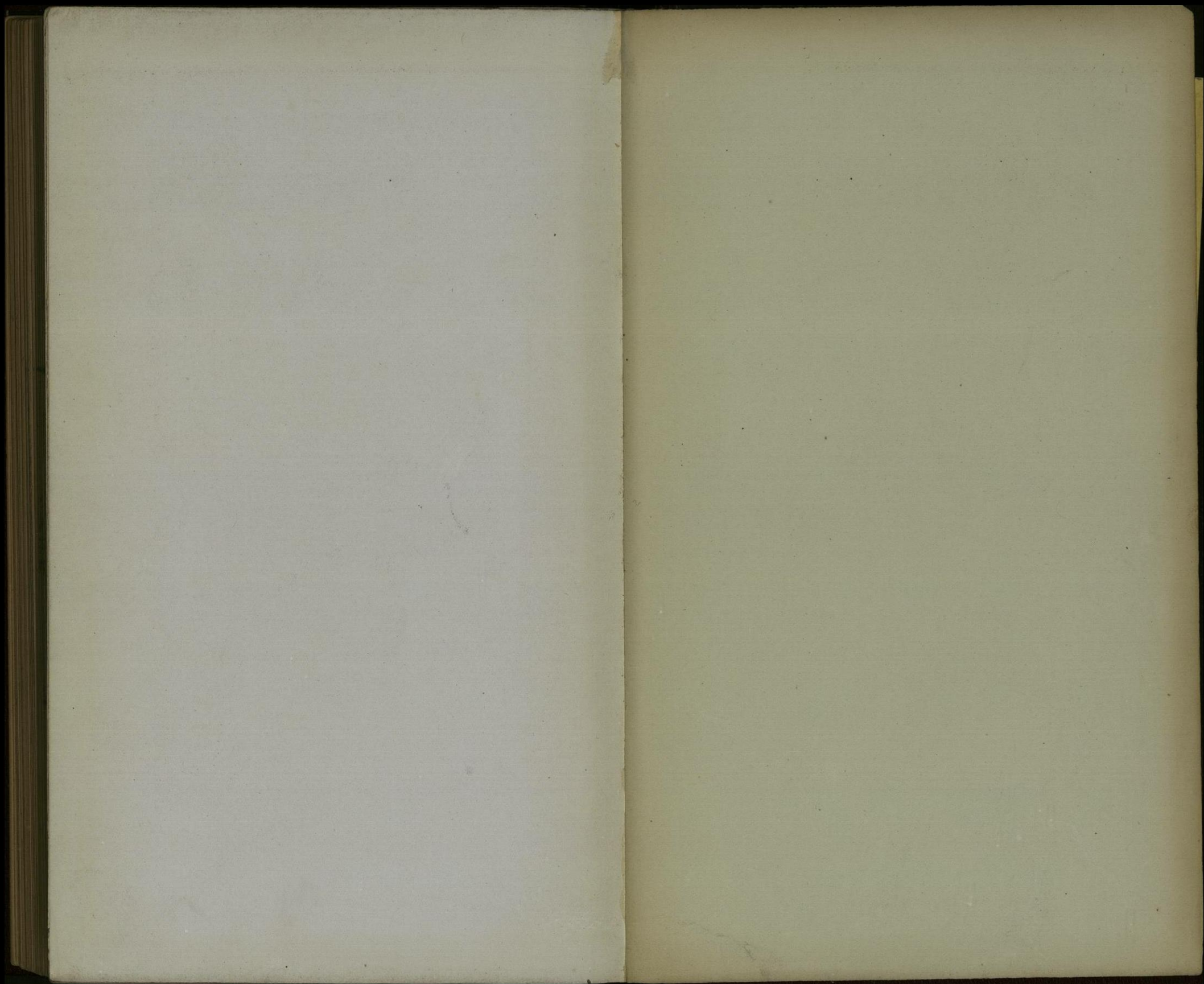


Steel containing Slag polished in Relief.  $\times 100$ .  
No. 41.



Steel containing 0.45 per cent. of Carbon quenched from 730°. The dark constituent is Troostite.

No. 42.



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p. 2 w

CAPILLA ALFONSINA

U. A. N. L.

Esta publicación deberá ser devuelta  
antes de la última fecha abajo indi-  
cada.

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