

Extracts from the papers of Sir Charles Wheatstone

WHEATSTONE 3: Series of notes describing experiments to investigate the nature of electricity, magnetism and thermodynamics, [1834-1875]

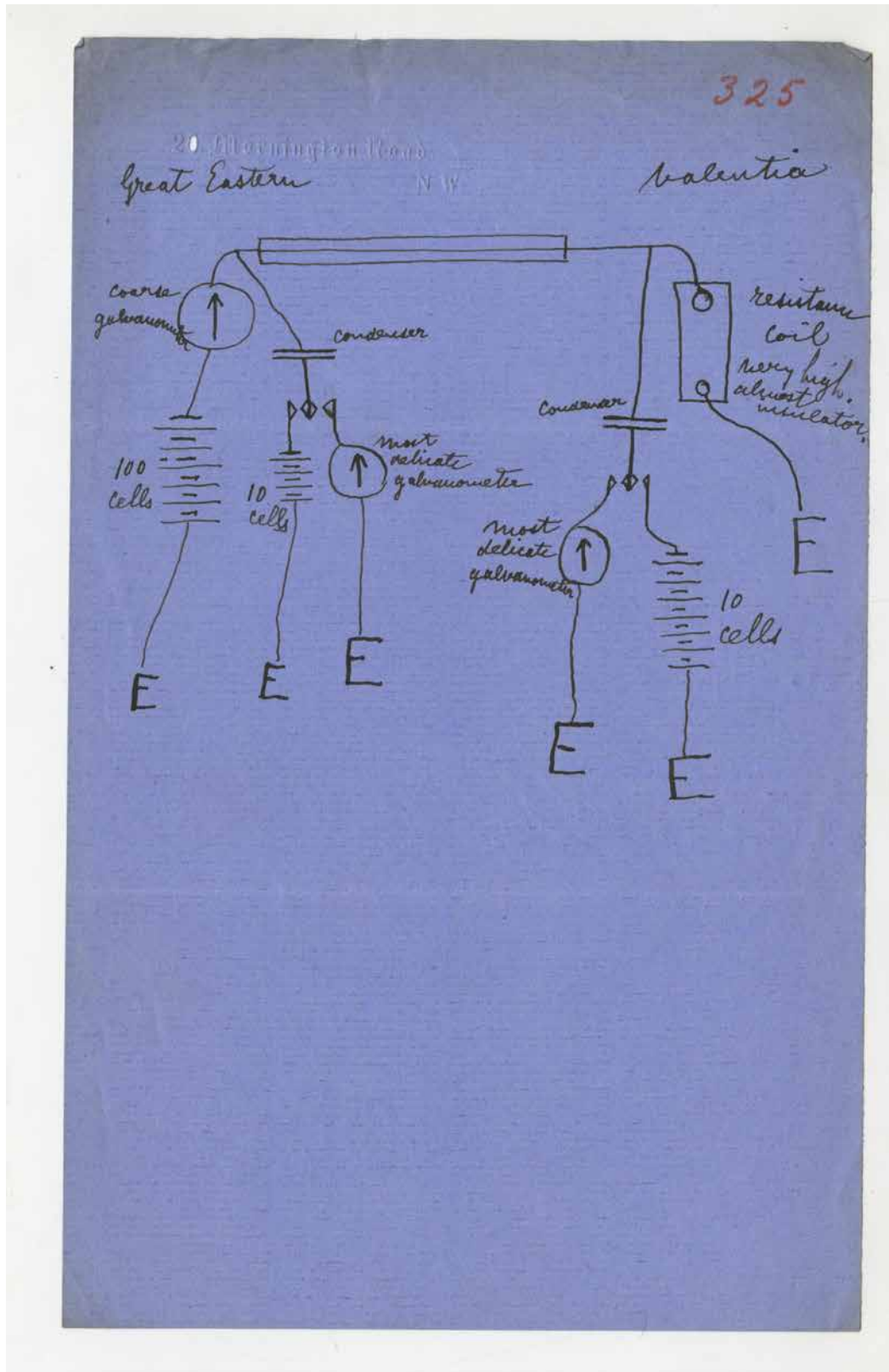
K/PP107/3/4/314-439

[1834-1875]

Papers relating to magnetism, comprising experimental observations and test results of electromagnets in different configurations; notes on a magnetic flywheel and governor; criticism by Charles Wheatstone of the remarks of Josiah Latimer Clark (1822-1898), electrical engineer, concerning electrical resistance; experiments to test the electrical capacities and insulating capabilities of various substances; conjectures relating to the employment of mercury as a medium for electrical conduction; draft comments intended for lectures or papers presented by Wheatstone including brief observations illustrative of Wheatstone's relationship with his academic peers and his working methods. With sketches, diagrams and tables of data.

The Papers of Charles Wheatstone

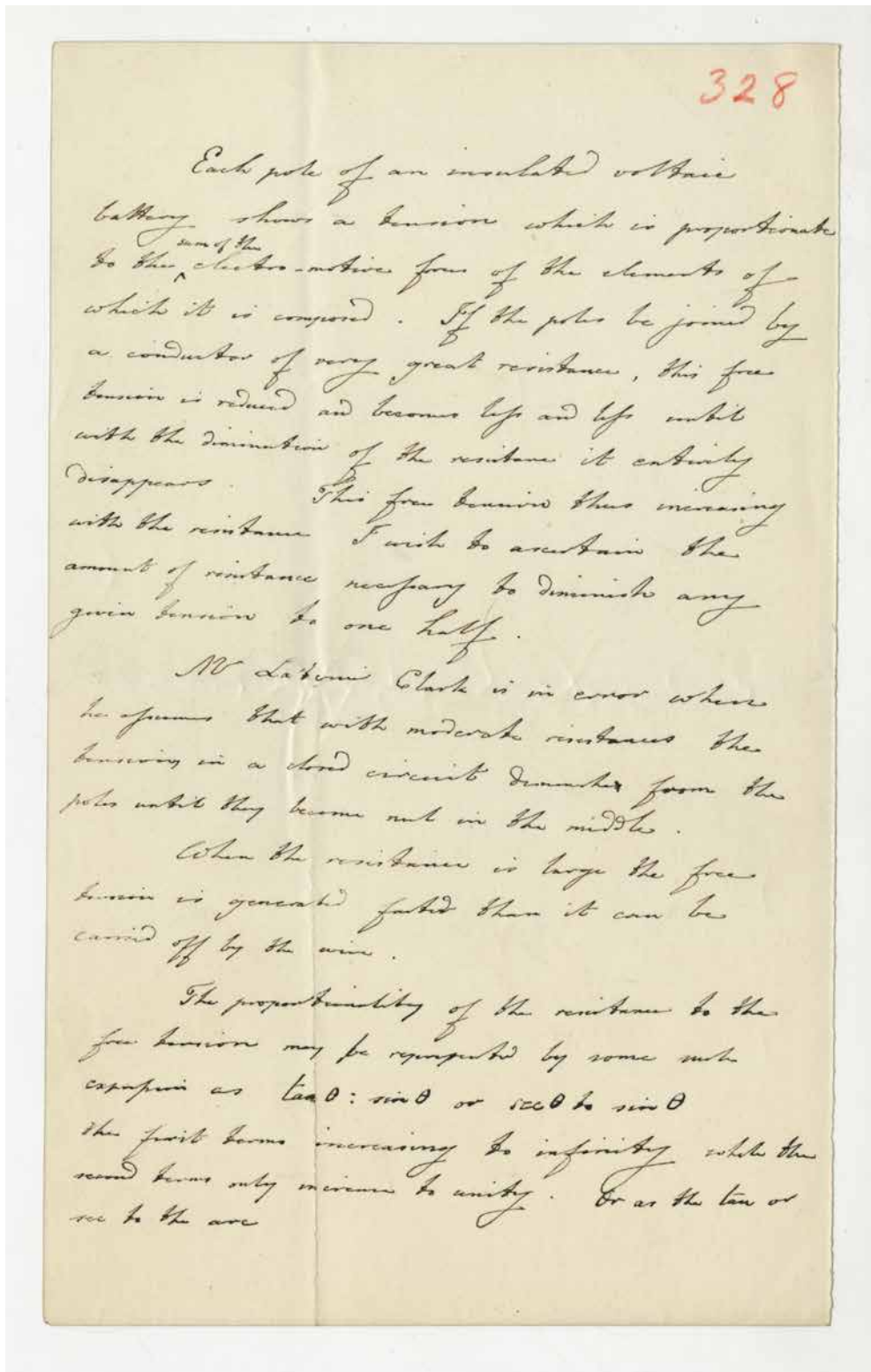
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Diagram showing the configuration of batteries, condensers, resistance coils and galvanometers for laying the transatlantic telegraph cables from Valentia, Ireland using the Great Eastern ship [not in Wheatstone's hand, probably drawn by John Matthias Augustus Stroh (1828-1914), telegraph engineer and inventor, [1865-1866].

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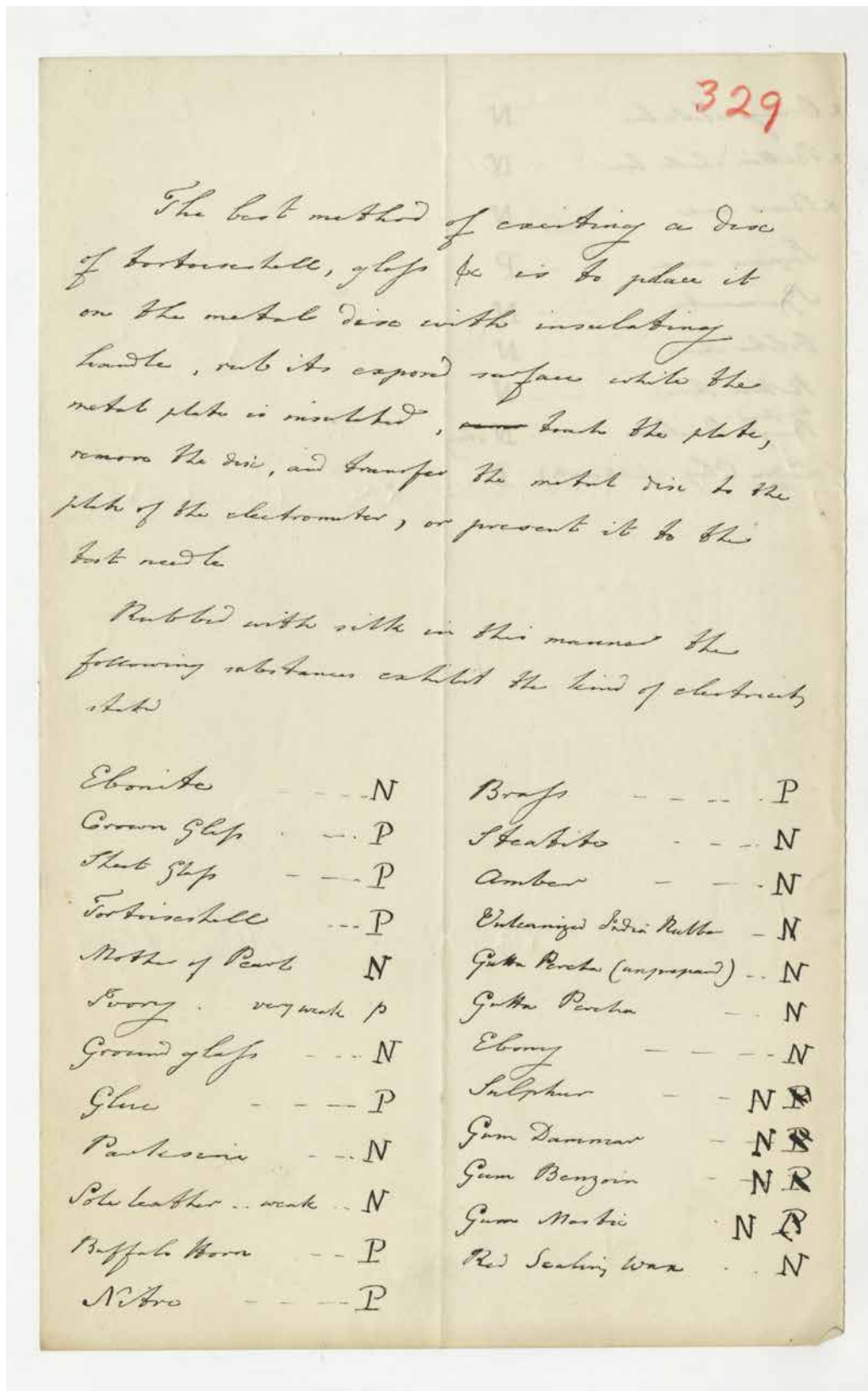


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Criticism by Wheatstone of the remarks of Josiah Latimer Clark (1822-1898), electrical engineer, concerning electrical resistance, [1834-1875].

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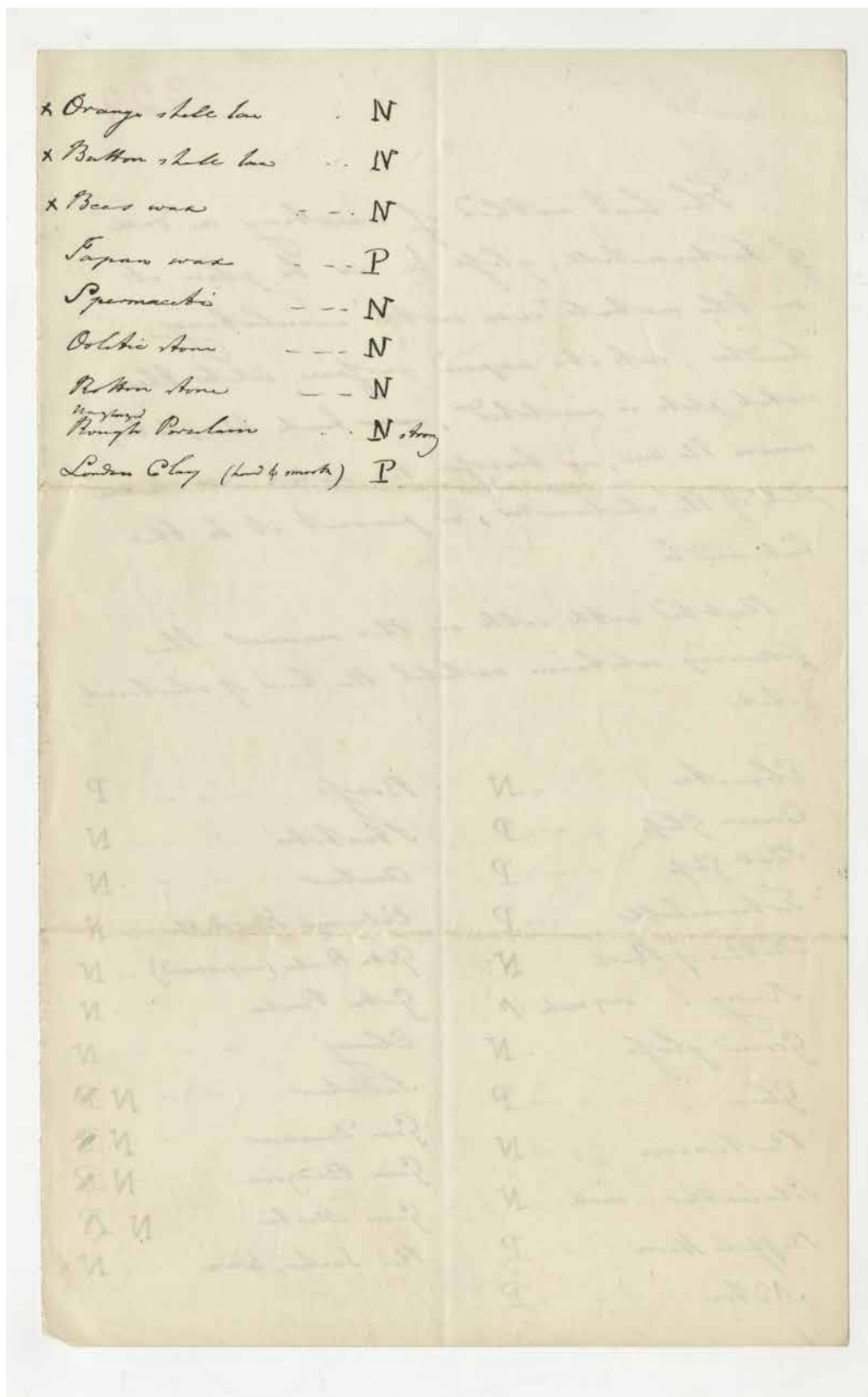


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Notes listing the positive or negative static electrical charges in various materials including tortoiseshell, brass and gutta percha, [1834-1875], page 1.

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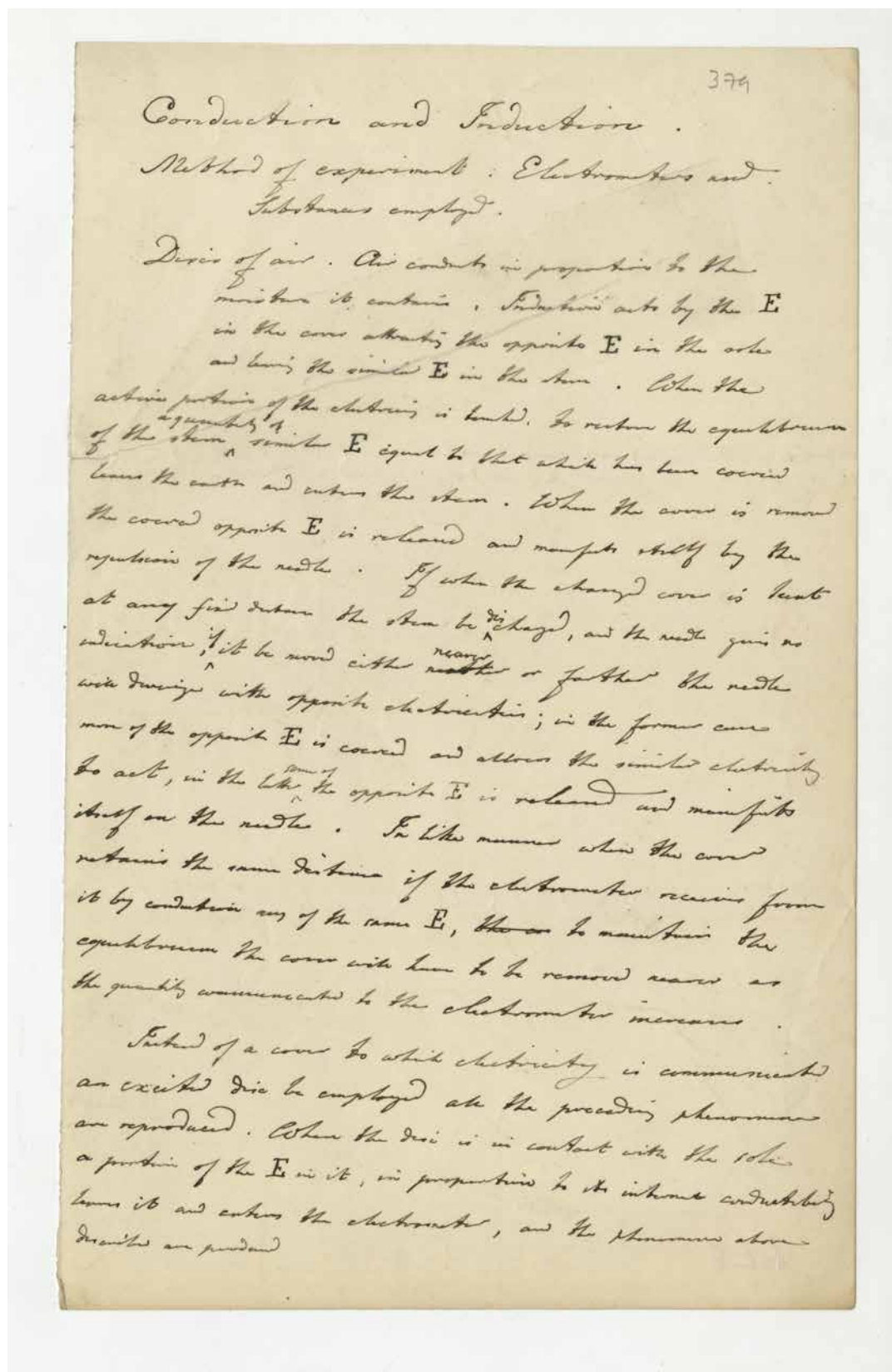


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Notes listing the positive or negative static electrical charges in various materials including tortoiseshell, brass and gutta percha, [1834-1875], page 2.

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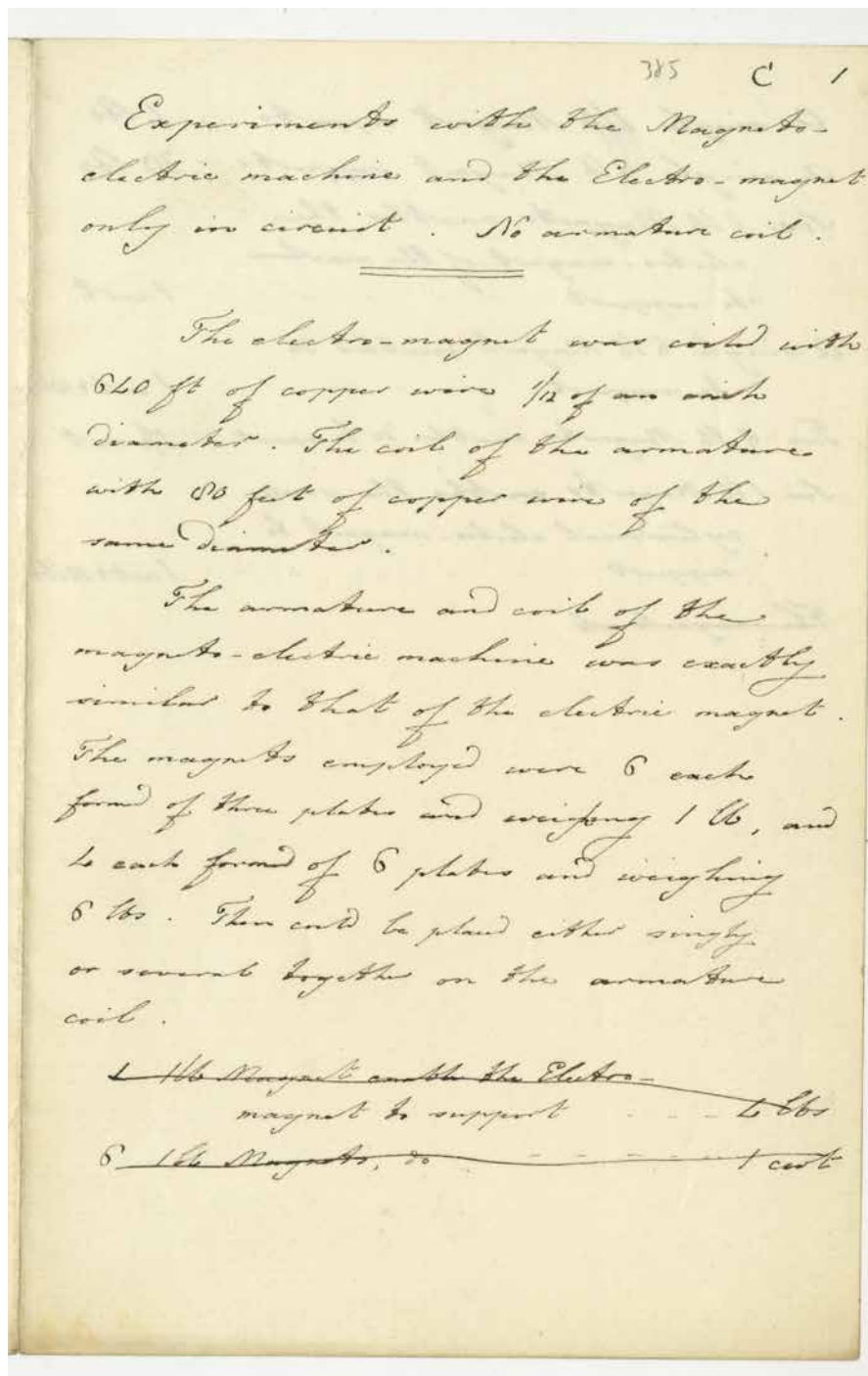
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Notes describing the method of an experiment on conduction and induction explaining the electrometers and substances used, [1834-1875].

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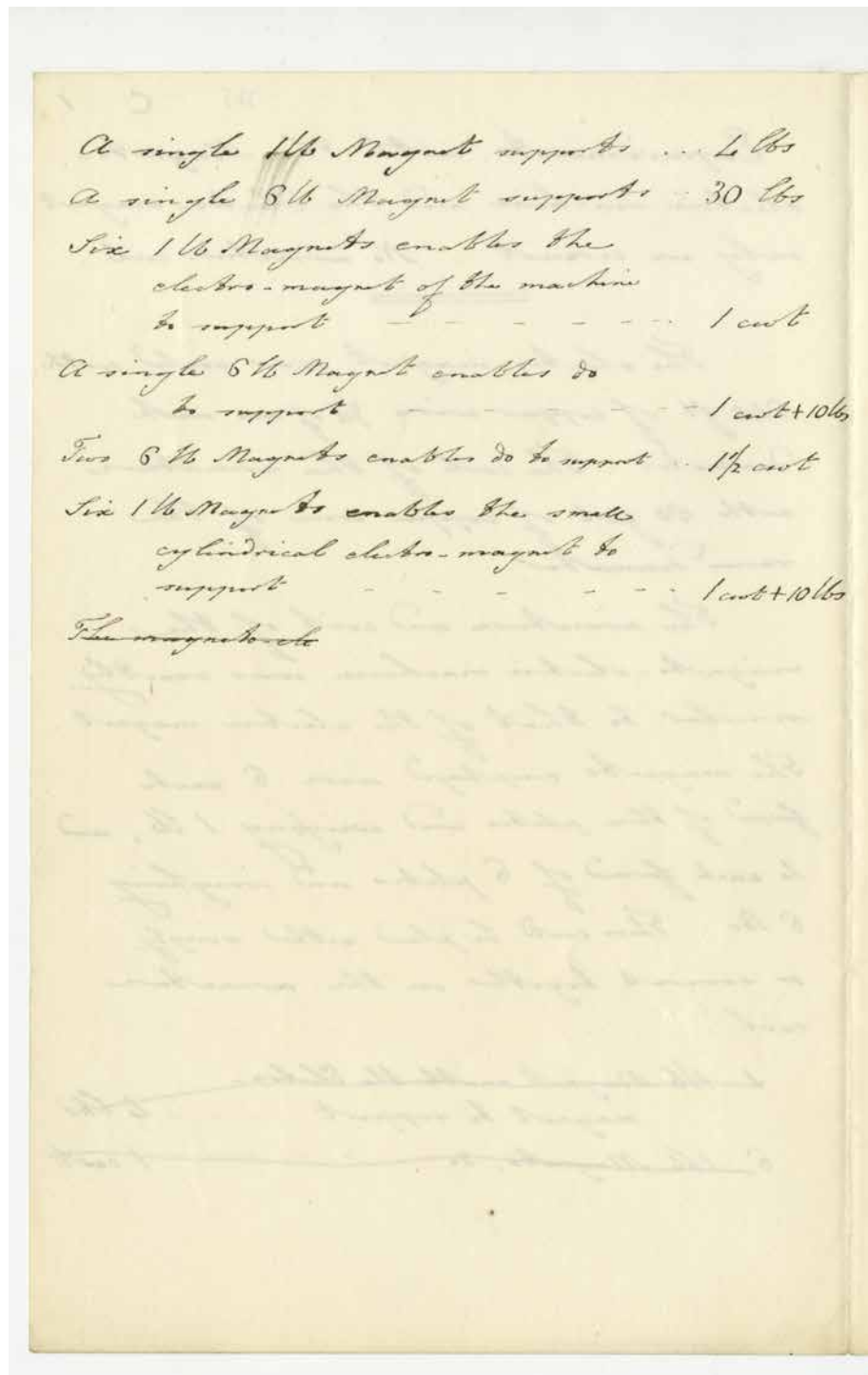


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Notes detailing experiments with the 'Magneto-electric machine and the electro-magnet only in circuit' and without an armature coil, [1834-1875], page 1.

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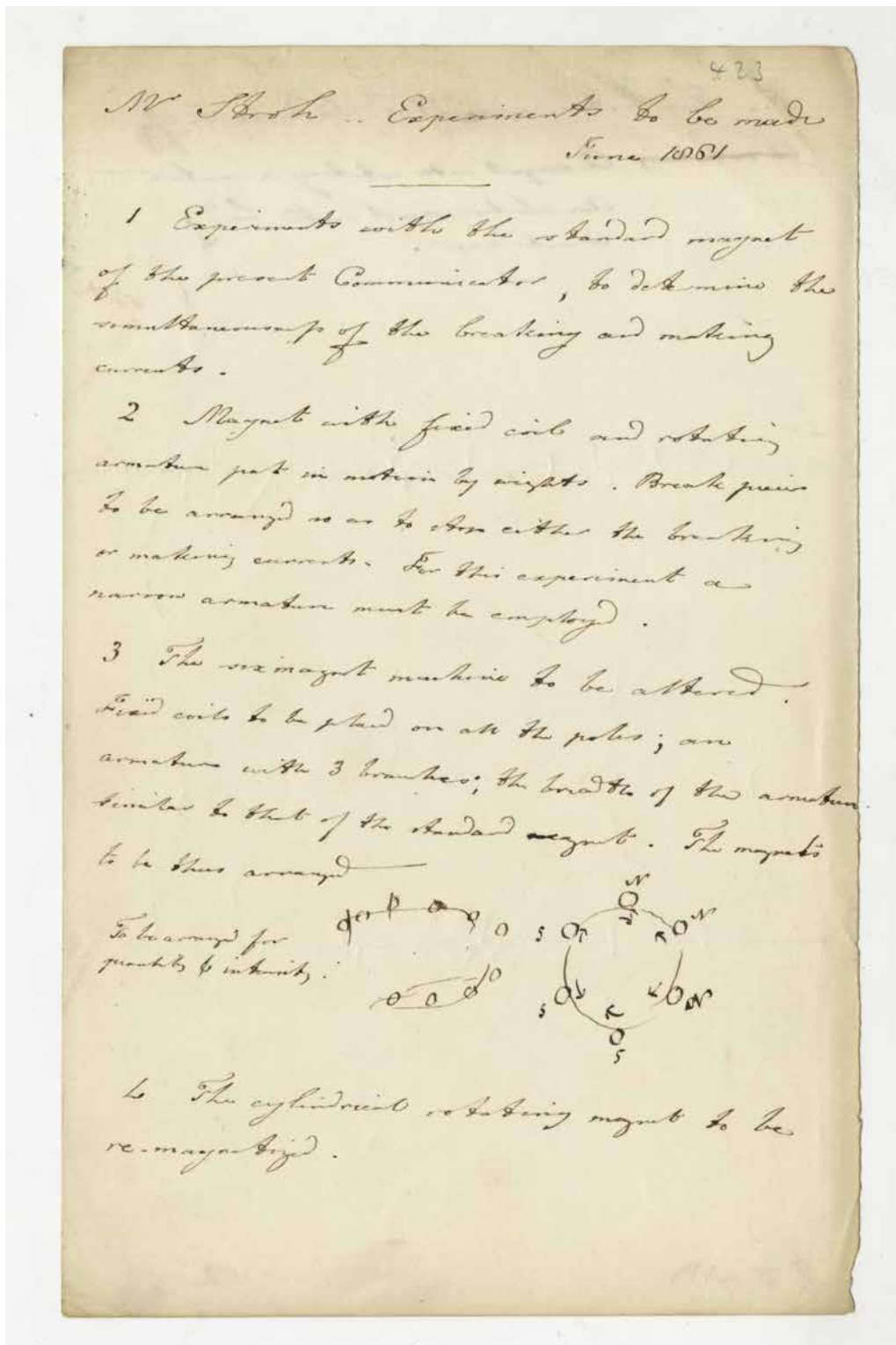
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Notes detailing experiments with the 'Magneto-electric machine and the electro-magnet only in circuit' and without an armature coil, [1834-1875], page 2.

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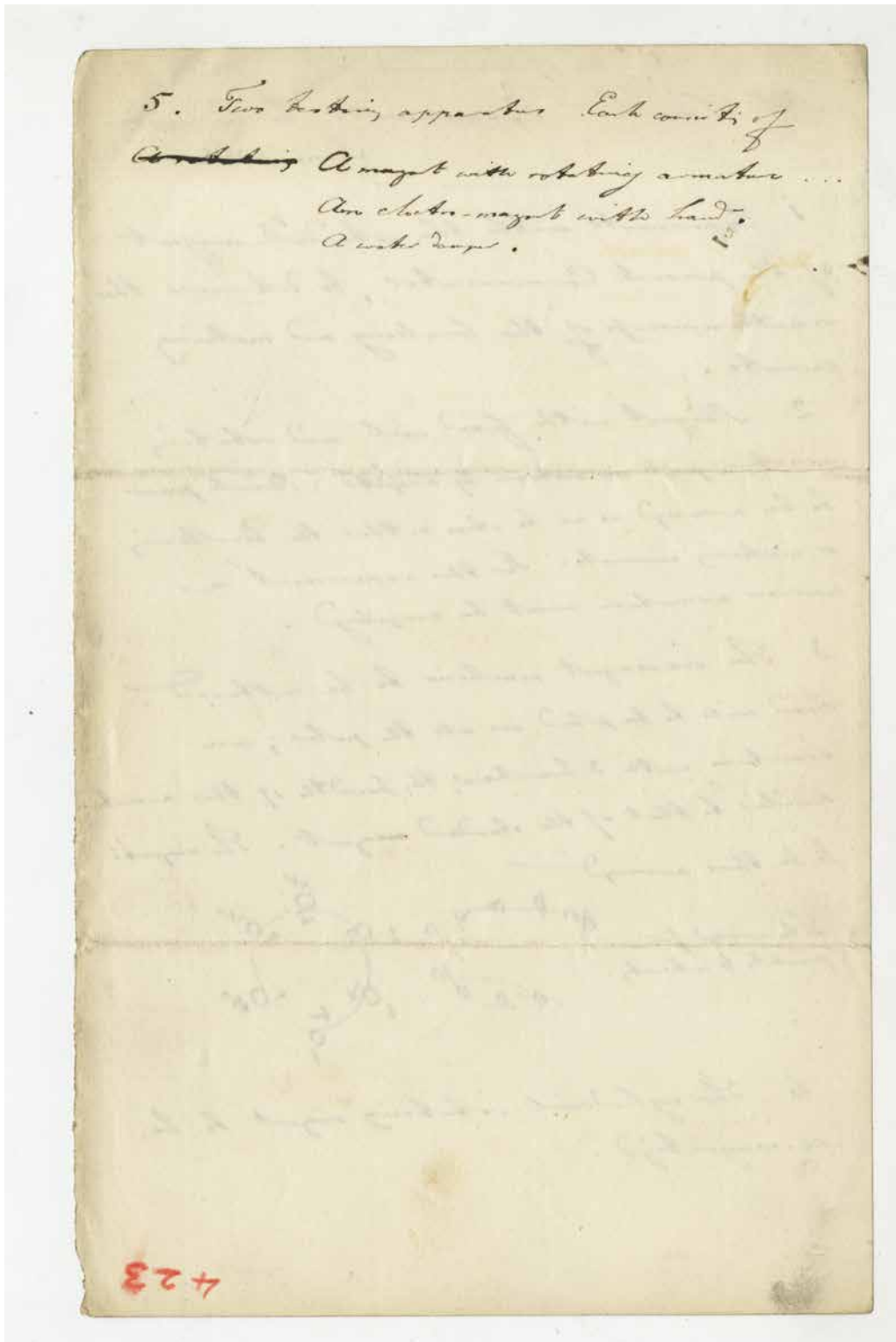


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List of experiments to be made by John Matthias Augustus Stroh (1828-1914), telegraph engineer and inventor, testing the 'magnet-machine' with a telegraph communicator, 1861 Jun, page 1.

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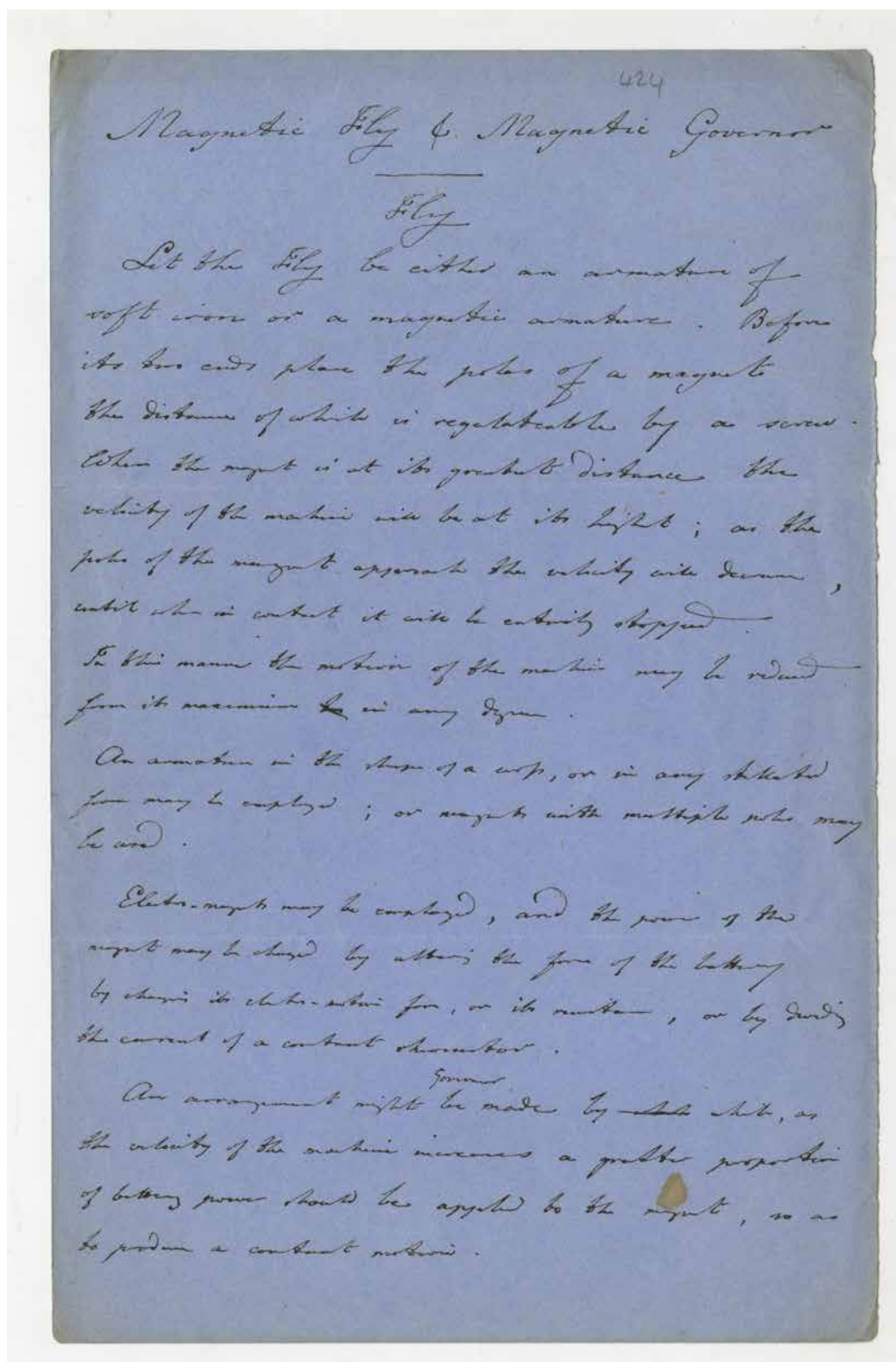
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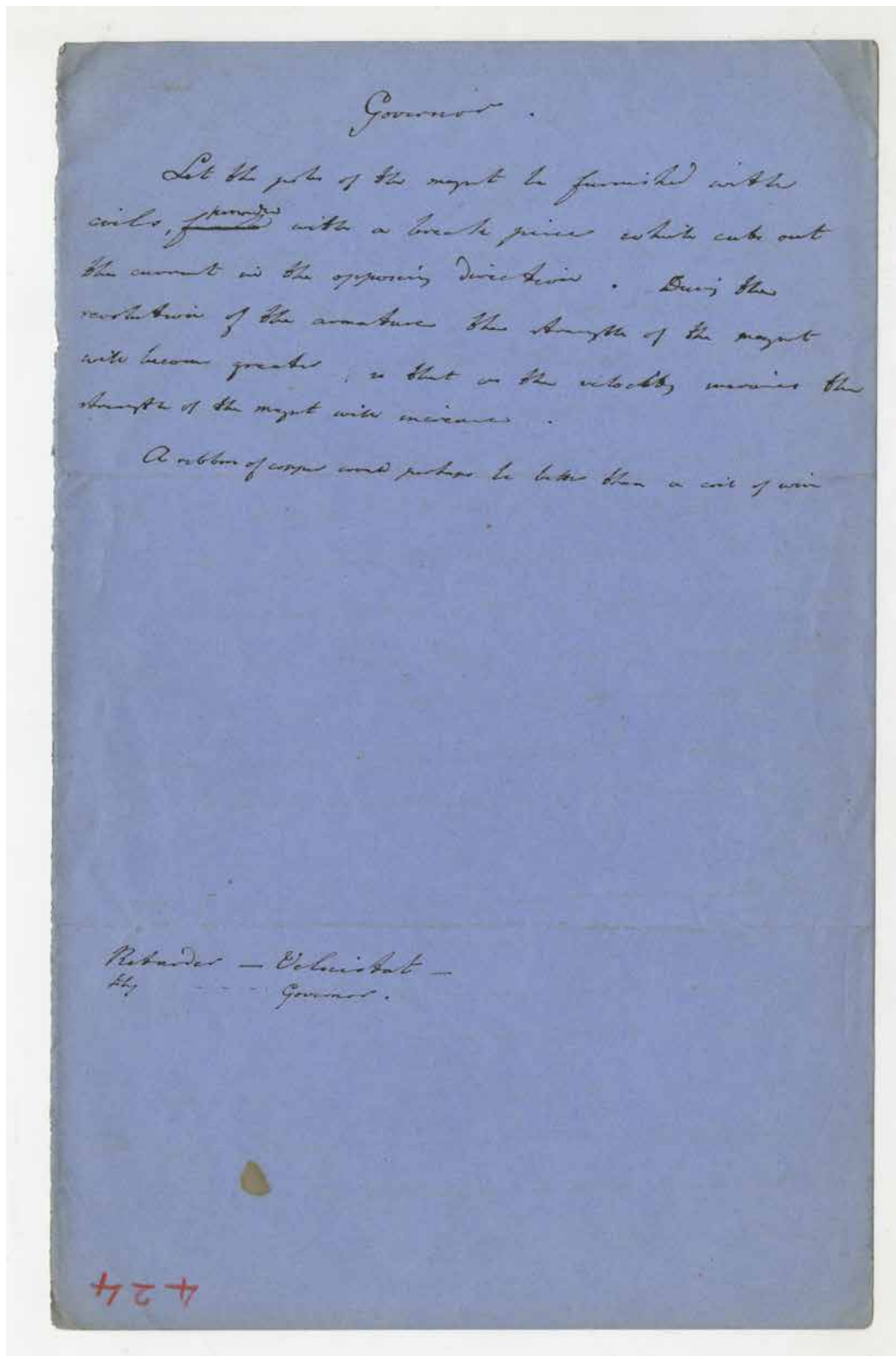
K/PP107/3/4/423

List of experiments to be made by John Matthias Augustus Stroh (1828-1914), telegraph engineer and inventor, testing the 'magnet-machine' with a telegraph communicator, 1861 Jun, page 2.

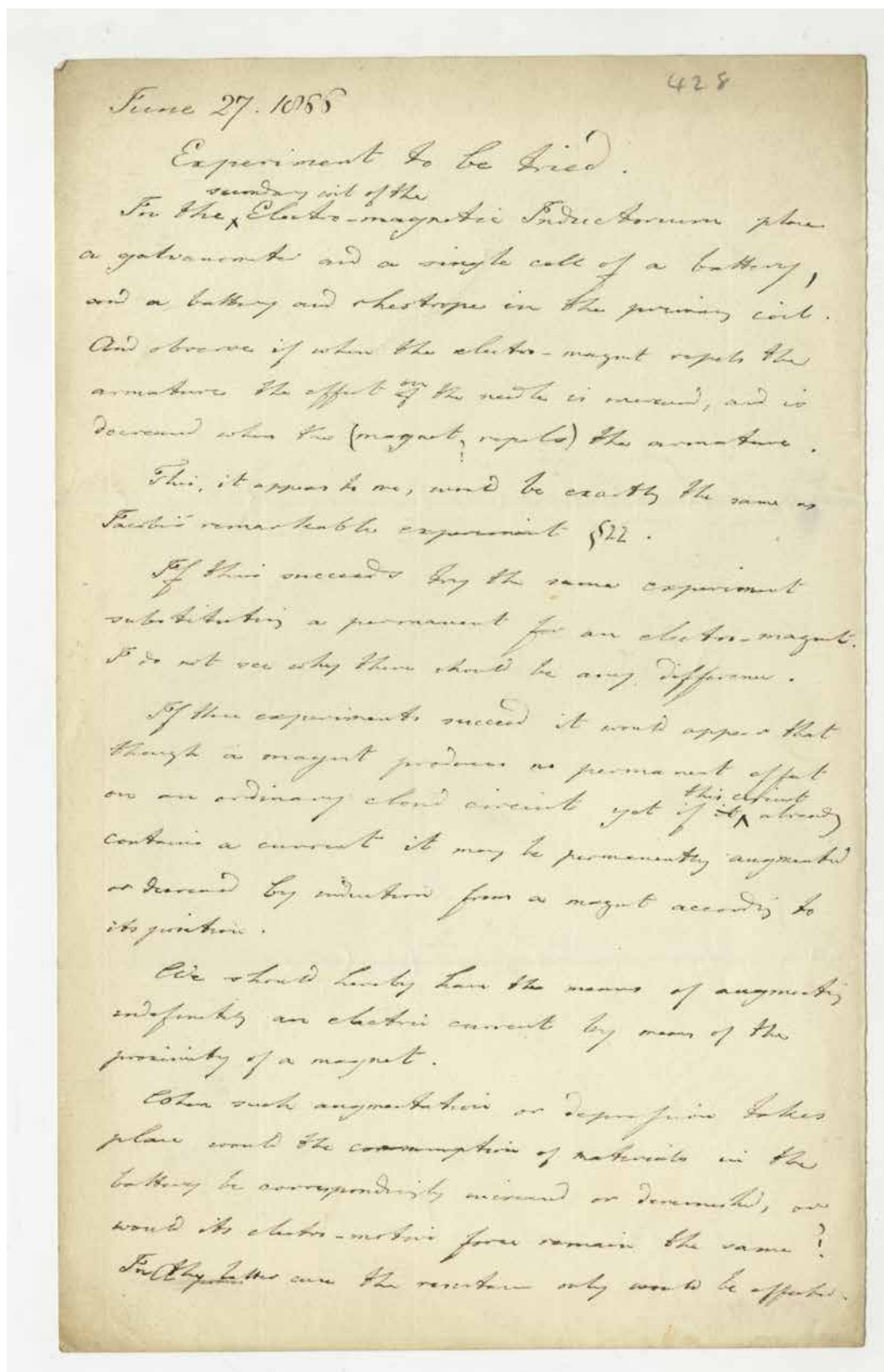
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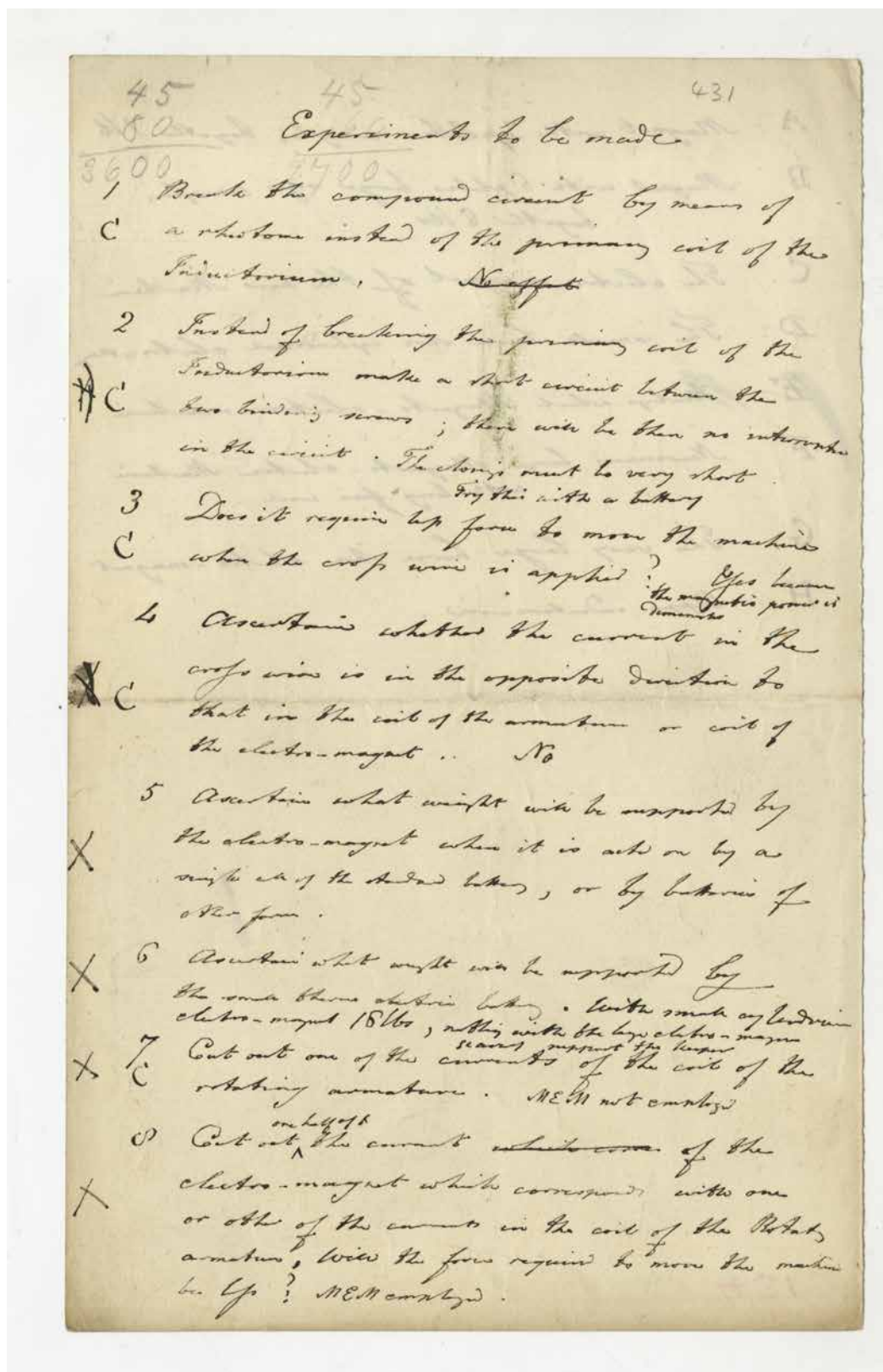


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List of experiments to be tried with an electro-magnetic inductorium or induction coil, 1866 Jun 27.

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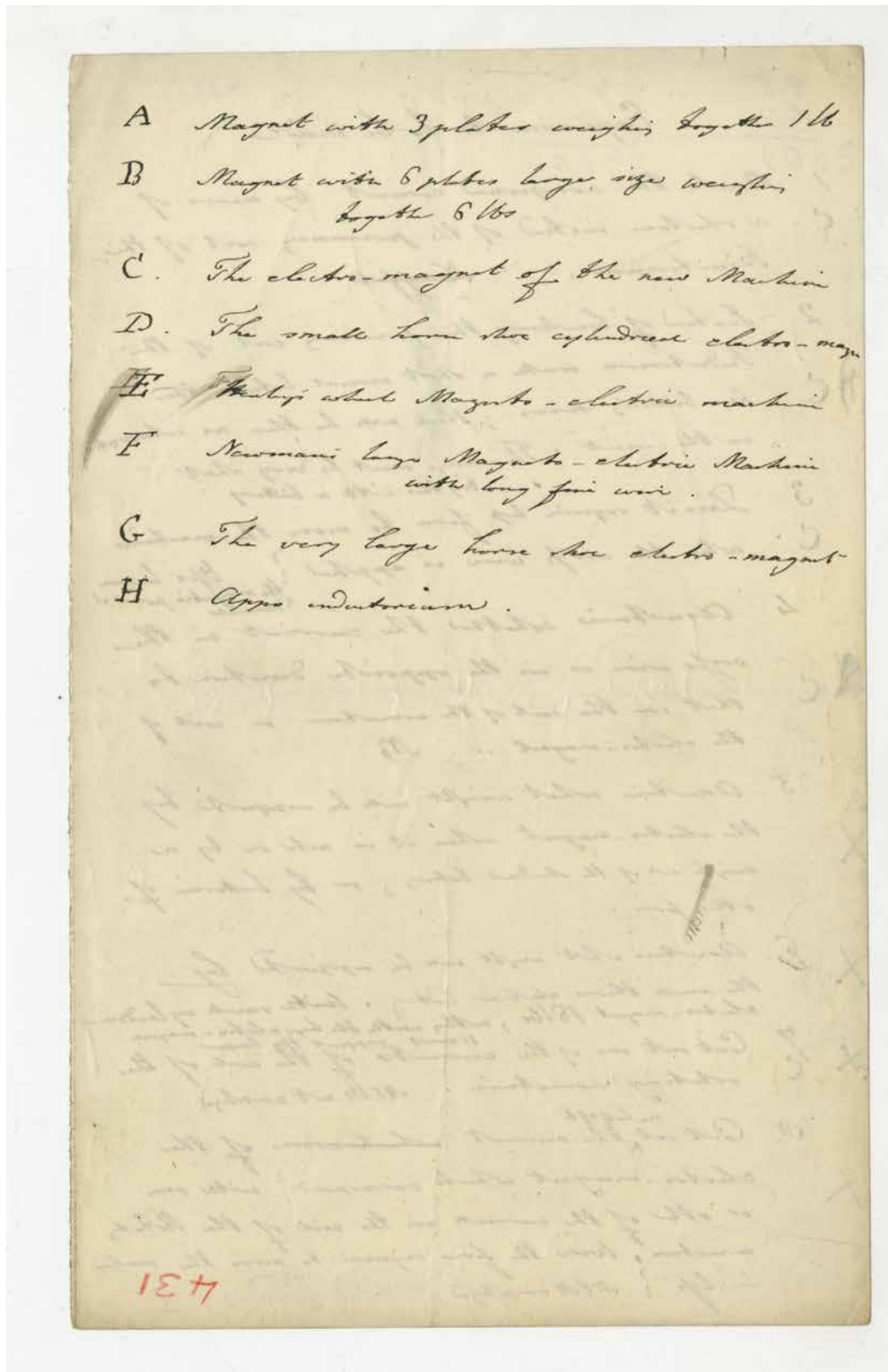


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List of experiments to be tried using a range of apparatus including various magnets, electromagnets, Henley's wheel, and Newman's large, magneto-electric machine and Apps' inductorium, [1834-1875], page 1.

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List of experiments to be tried using a range of apparatus including various magnets, electromagnets, Henley's wheel, and Newman's large, magneto-electric machine and Appa's inductorium, [1834-1875], page 2.

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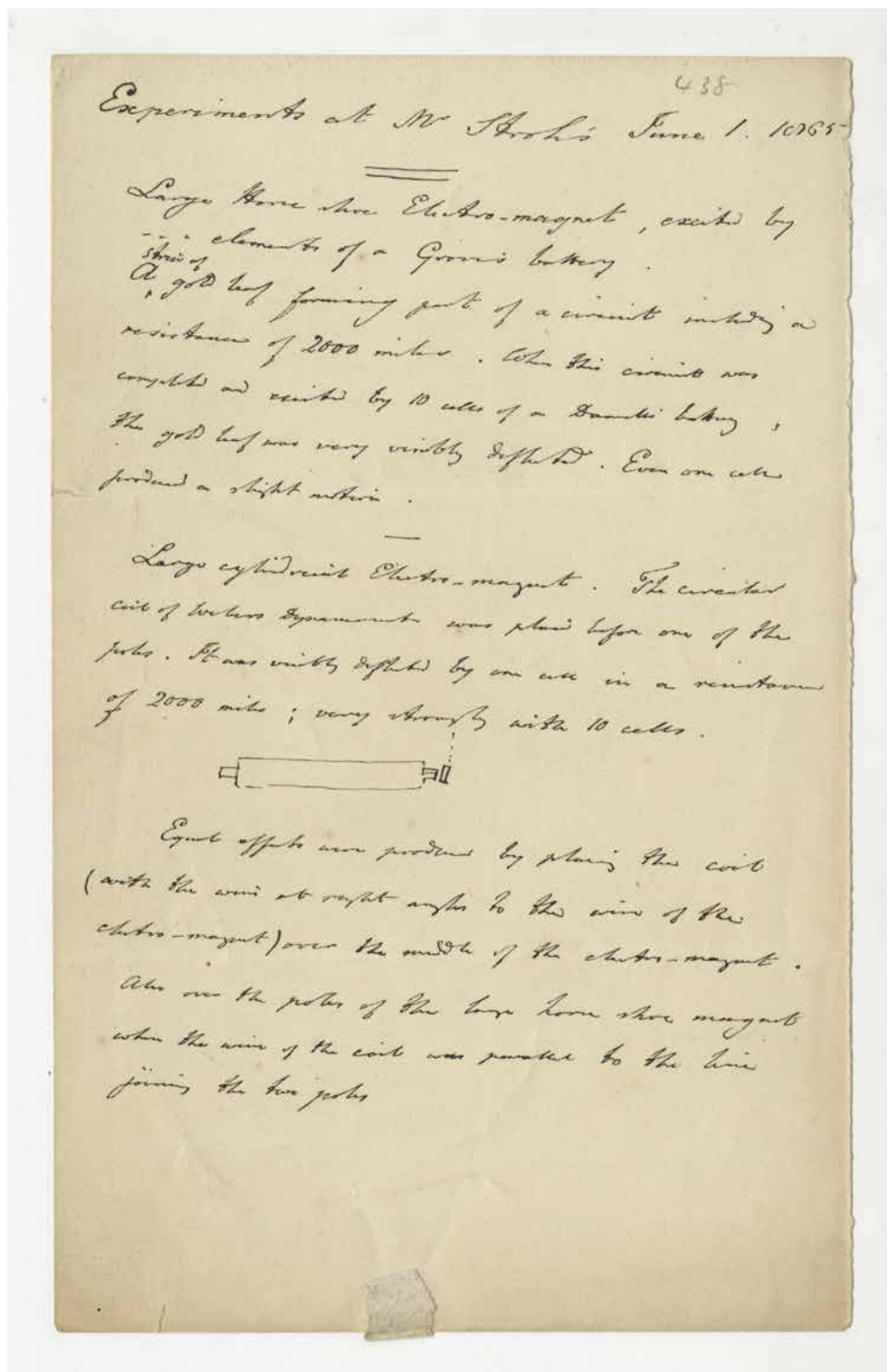
It always appeared to me to be a difficulty in Ohm's theory why increasing the surface of the plates should only be considered as decreasing the resistance. ~~when the~~ The explanation given by Pouillet on the principle of divided currents clears up this difficulty and at the same time shows Delarivis explanation, limited as it was, to be founded on truth. Another point that these considerations clear up is the apparent conversion of quantity into intensity by divided currents and by induction; in these cases it is evident there can be no neutralization by return currents.

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Notes re-appraising the theory of Georg Simon Ohm (1789-1854), German physicist, with reference to Claude Servais Mathias Pouillet (1791-1868), French physicist, and Auguste Arthur de la Rive (1801-1873), Swiss physicist, [1834-1875].

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Notes outlining experiments undertaken with John Matthias Augustus Stroh (1828-1914), telegraph engineer and inventor, 1865 Jun 1.