## E


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\begin{aligned}
& \text { mining which is north and which is pruth } \\
& \text { \& Ho proved that untike poles atimet } \\
& \text { each othor, and tike poles repel, and that }
\end{aligned}
$$

$$
\begin{aligned}
& \text { circle, atil to determine with this deve } \\
& \text { the position of an object by its magnent } \\
& \text { beraring ns tone today in compass surves } \\
& \text { twe }
\end{aligned}
$$

$$
\begin{aligned}
& \text { gmall. is a complete magnet, thus antici- } \\
& \text { pating a standard molern taboratory thus- } \\
& \text { tration of the molecular theory. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { tration of the molecular theory. } \\
& \text { 5. His maknetic motor. while, of course, } \\
& \text { fis motion falted to be pernetual, culi ustly }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Its plan of construction and in its reiline } \\
& \text { on constant changes of polarity in the fold } \\
& \text { to pull the armature around and keep it }
\end{aligned}
$$

revolving.

$$
\begin{aligned}
& \text { "Vartous mothois have been proposed } \\
& \text { from time to time for transmitting sight } \\
& \text { electrically," snyw Filectro, "but they somen } \\
& \text { to lack certaln necessary features. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { to lack certain necessary features. A } \\
& \text { system has leen devised by M. A. Nigro, } \\
& \text { however. which scems to him to the }
\end{aligned}
$$

$$
\begin{aligned}
& \text { tive comdition. The copper whires which } \\
& \text { terminate in the serven are then iod into } \\
& \text { an chonite eytinder, and pass out throash } \\
& \text { boles correaponding in pposition to the } \\
& \text { terminition in the sensifive sereen. These }
\end{aligned}
$$

$$
\begin{aligned}
& \text { terminimon in the sensitive screen, Theser } \\
& \text { holes are arminged in spirats in such a } \\
& \text { way that a metallie bhate which revolves } \\
& \text { around the cylinder successlvely makes }
\end{aligned}
$$

$$
\begin{aligned}
& \text { contact with every terminal The blade is } \\
& \text { revolvat atout the cylinder at a speed of } \\
& \text { cos revolutions per minute, so that powry }
\end{aligned}
$$

$$
\begin{aligned}
& \text { From the blade and from the wire net of } \\
& \text { the sennitive serven wires are led throngh, } \\
& \text { twatery and to a telephone recelver. If a }
\end{aligned}
$$ambitious to become masters of the teloge

$$
\begin{aligned}
& \text { batury and to a telephone recelver. If a } \\
& \text { pleture be thrown upon the sensitive scceon } \\
& \text { and the bbade be revolved ahout the cylln- }
\end{aligned}
$$

to erect poles and string wire, cnincluted

$$
\begin{aligned}
& \text { and the blade be revolved ahout the cylln- } \\
& \text { der a varying curvent will be rent through } \\
& \text { the telephone, the intensity of which will }
\end{aligned}
$$to experiment with a barbed wire fence as

a means of transmitiong messages. "Alout

$$
\begin{aligned}
& \text { vary with each contact, aceoriling to the } \\
& \text { intensity of the light falling upon the cor- } \\
& \text { responding gection of the wereen. This }
\end{aligned}
$$whleh we found on investikation wire fence

$$
\begin{aligned}
& \text { responding section of the sereen. This } \\
& \text { telephone by means of a sensitive carbon } \\
& \text { microphone repents through the tramsmis- }
\end{aligned}
$$home. The fence didn't follow in strindghSne by any means-there were several

short brenks in it. Were and there it eur

$$
\begin{aligned}
& \text { Peter the Pilgrim. Befors his time the } \\
& \text { lodestone or natural magnet, was well } \\
& \text { known. but was regarded chiefly as a curi- }
\end{aligned}
$$

$$
\begin{aligned}
& \text { the apparatus just doscribed, At the re- } \\
& \text { ceiving station a secomd tet-phone repeats } \\
& \text { the variations in current through a second }
\end{aligned}
$$But these irrigutarithes, we thought. Alt

not matter. We were determined to oililisepainted a new barn, and he had three or
was more than enough for our nevels.
We were careful to see that the cally unb
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$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$ spucfat letters of invitation have been is-
sued on hehalf of the committre of org n -
$\qquad$
$\qquad$

$$
\begin{aligned}
& \text { monly called. from having made a journey } \\
& \text { to the Holy Land. Petrus Peragrinus, or } \\
& \text { and }
\end{aligned}
$$

$$
\begin{aligned}
& \text { microphone repente through the trangmikg } \\
& \text { sion line the current variations produced by } \\
& \text { thie aponatus fust doscribed. At the re. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { the variations in current through a second } \\
& \text { mierophone in a local circuit arranged to } \\
& \text { produce a snark. The intensity of the }
\end{aligned}
$$

$$
\begin{aligned}
& \text { produce a spark. The intensity of the } \\
& \text { spark at any instant corresponds to the }
\end{aligned}
$$that fenee

We frew that paint-ordinary houed
$\qquad$

$$
\begin{aligned}
& \text { imtensity of Hlanination of a particular } \\
& \text { part of the selenium screen. This spark- } \\
& \text { gap is placed within a cylinder having }
\end{aligned}
$$

$\qquad$
$\qquad$ necomanry? Woutd not any sort of sitf-
Insulating receptactea of soltabte sixe aill-
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$\qquad$
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$\qquad$ postled larly in the morning reaches Mar-
sight-rather bate, eone would
think for
$\qquad$

He Caught It
$\qquad$ he might catch a train. in order to ac had to remain up in nikhit, whe he hast no hard to keep awake, and when $3: 30$ otelock of mind. Knocking an the kuentra diog, Im sald: "Cit up, it's 3:3n" In at ntemp tone IH let that train ko and sleep until? landlord "I've ntayed up all night to git kuest caught the early train.-Kansas


