

Electronites Tests
ES-1 & ET-1

DOC	13	REV DATE	2/7/60	BY	37169
ORIG COMP	33	ORI	56	TYPE	30
ORIG CLASS	M	PAGES	12	REV CLASS	U
JUST		NEXT REV		AUTH:	HR 70-2



1950

STAT

May 1949

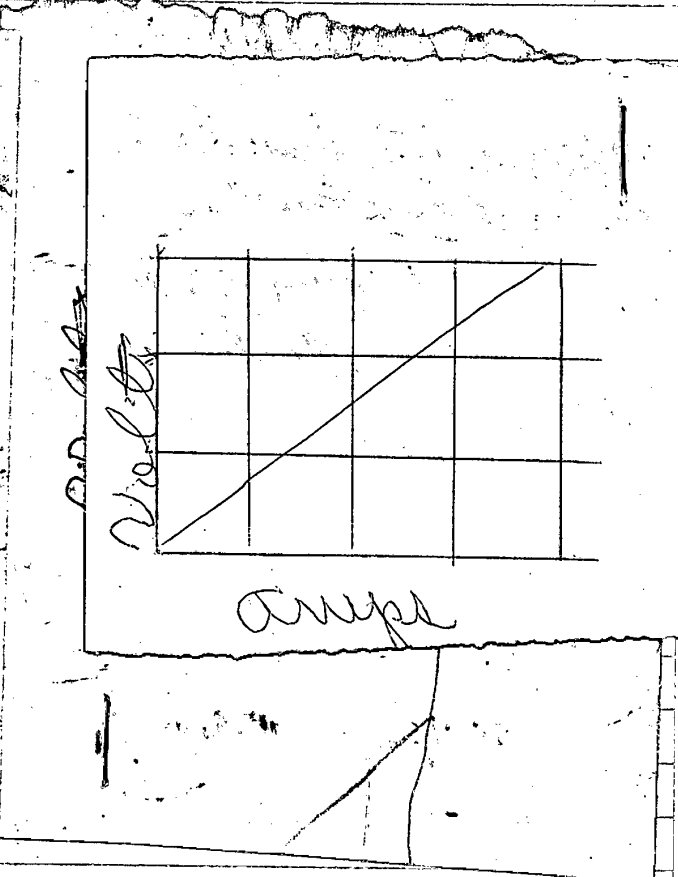
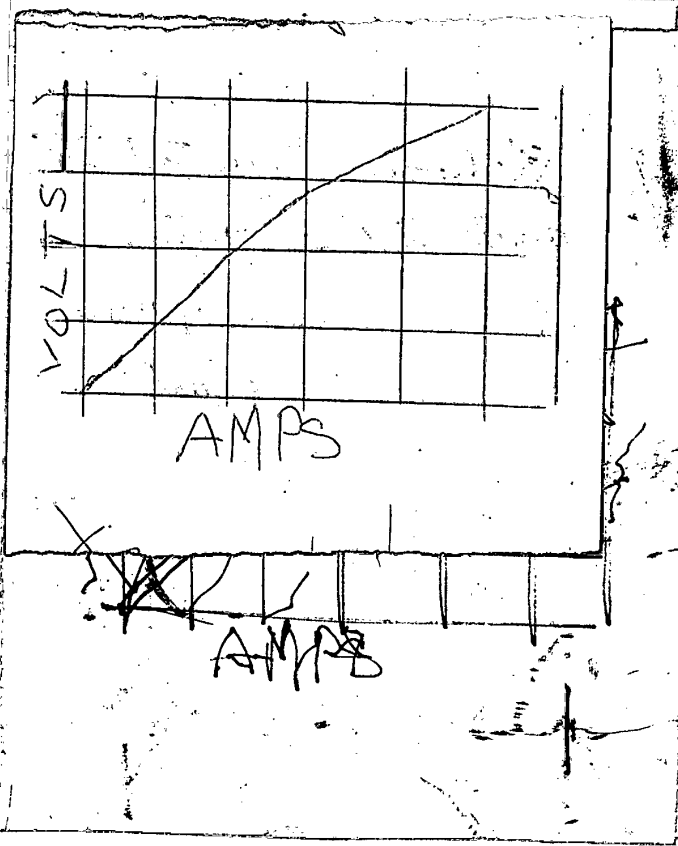
22 May 1950.

STAT

Electro-writer tests

A- Reproducibility tests.

Direct Wire Connections between trans. and reproducer.



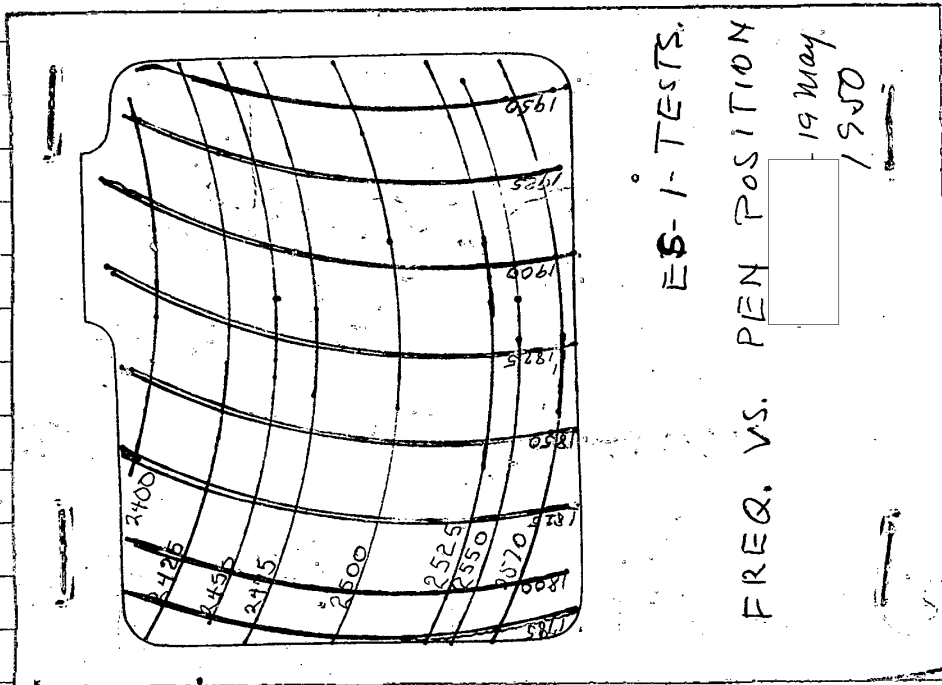
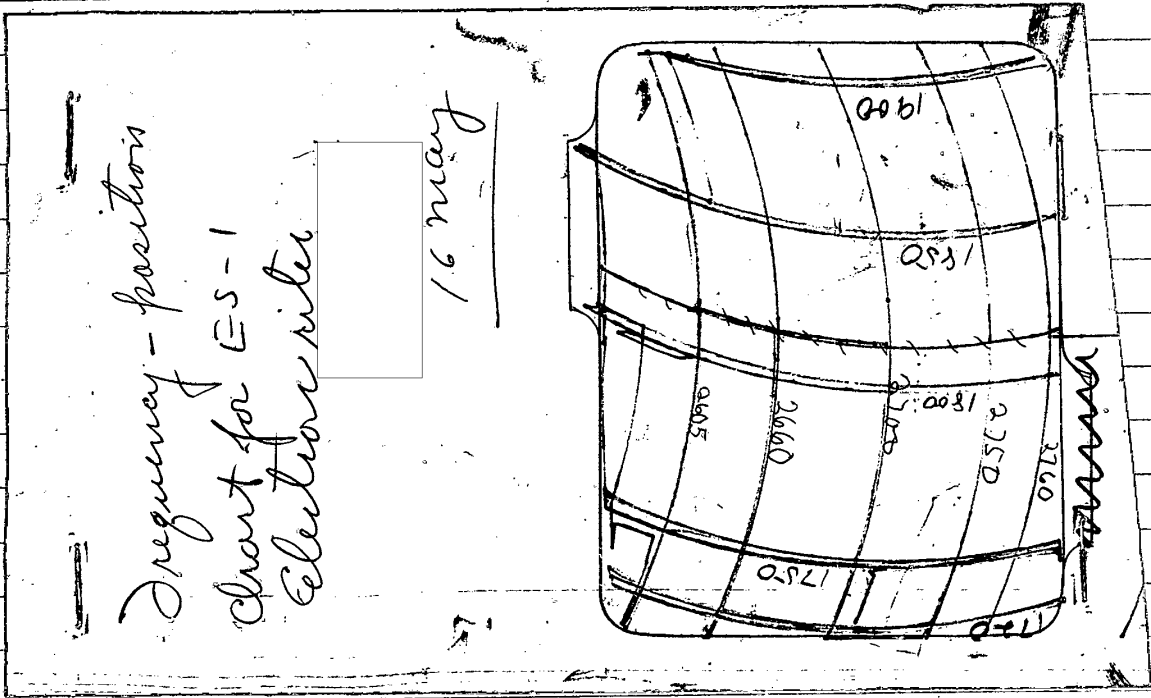
Attached test results demonstrate lack of reproducibility and accuracy. Reverse unit will not repeat in forward and reverse direction.

B - Paper jamming in paper feed roller.
cause - heated wax on paper collects on
cold steel roller. Wax builds up and
paper then sticks to roller and jams.



STAT

C. Frequency vs pen position for ES-1.
attached curves show pen position in both
planes, as a function of X and Y frequencies.



D. Interference test.

that simulated to determine effect of third freq interference. Procedure was to couple tubes & rise together & inject a third interfering freq. of known amplitude.

Results attached show very poor ~~sig~~ sig/interference ratio.

Running Curve of triple frequency input (interference)
Simulated Jamming
 $f_1 = 5475 \text{ c}$
 $f_2 = 1840 \text{ c}$
 $f_3 = 600 \text{ c}$

input settings Test #1 - χ detector interference test
(K+4) from ET-1 = $\frac{1000}{1000} \text{ V}$
interference (19100c) = $(\frac{1000}{1000} - 0008) = .0006 \text{ V}$
22 May 1950

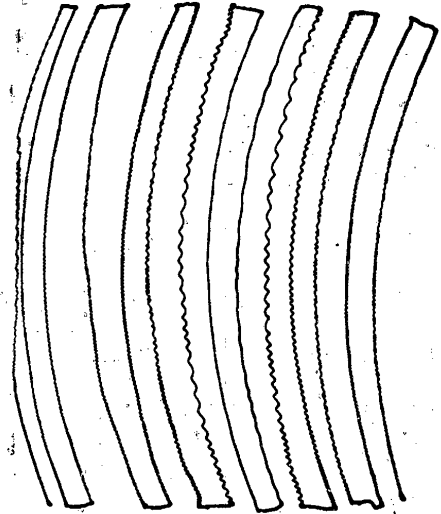
STAT

D. (cont) - Interference tests (Third frequency injected)

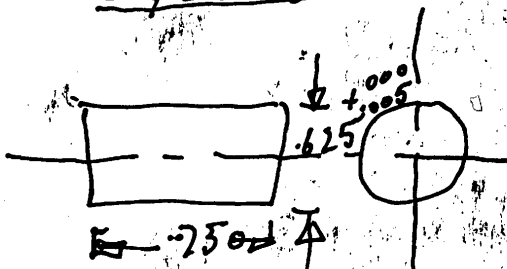
Test no 2
interference on X axis
input voltages,

(X+Y) from ET-1 = .018V

interference (1910 Hz) = (.0029 - .0004) = .0025V



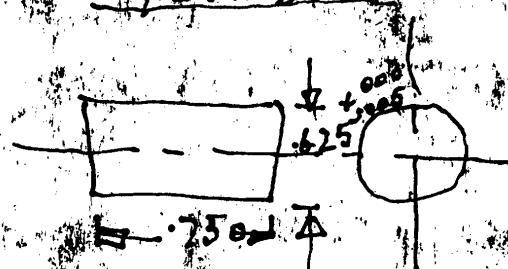
CYLINDER



CRIND TO SMOOTH
FINISH-

Mary had a a
little lamb - and
was she surprised!

CYLINDER



CRIND TO SMOOTH
FINISH-

Mary had a a
little lamb - and
was she surprised!

These writing tests
have been made
with a heated stylus
on special paper
to eliminate the
ink problems.

These writing
samples have
been made with
a heated stylus
writing on special
paper.

These writing tests
have been made
with a heated stylus
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to eliminate the
ink problems.

These writing
samples have
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a heated stylus
writing on special
paper.

This is the writing
Area on the ES-1.

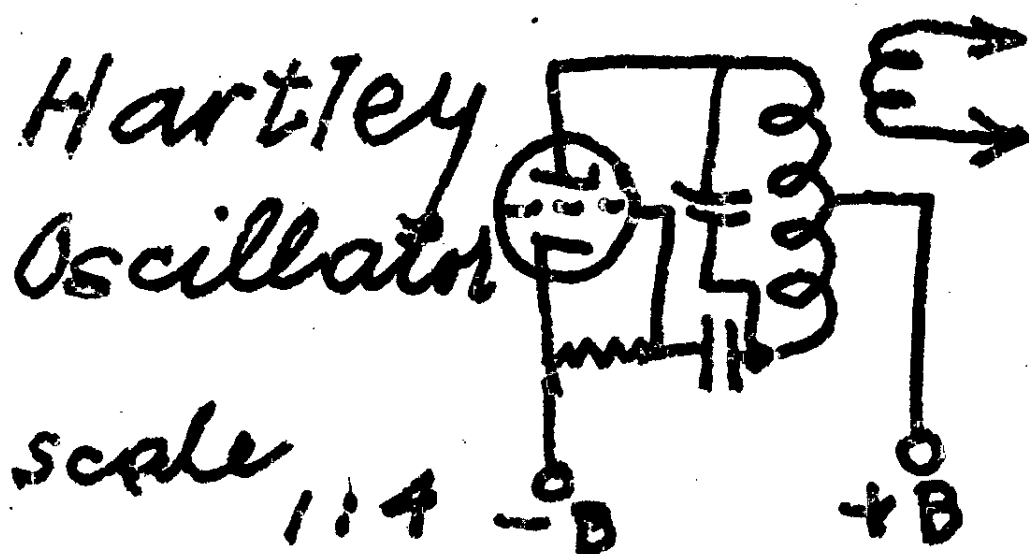
#3623

This is the writing
Area on the ES-1.

Now is the time for all
good men to come to the
aid of their party -

Now is the time for all
good men to come to the
aid of their party -

Now is the
time for all
good men to
come to the aid
of their party!



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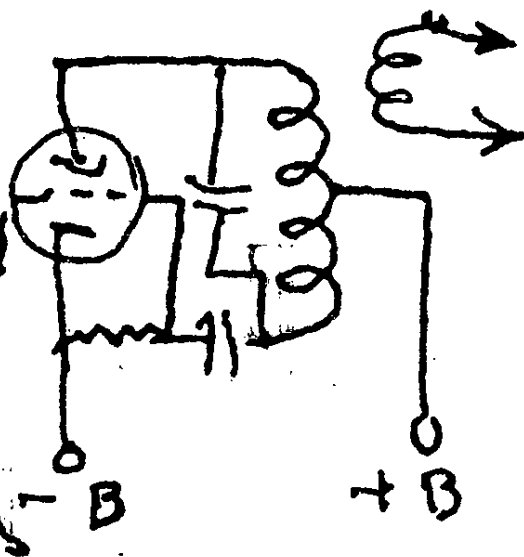
Just test
of the Electro-
writer.

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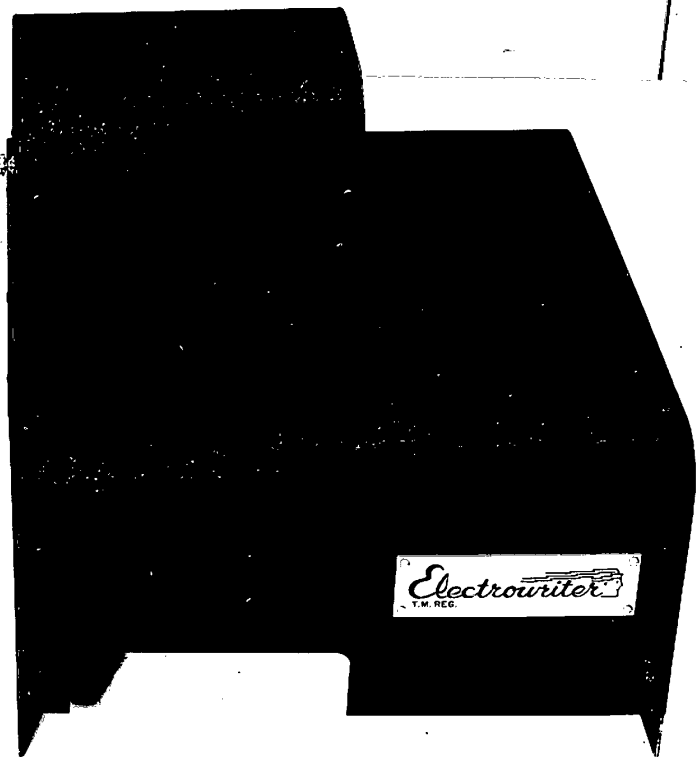
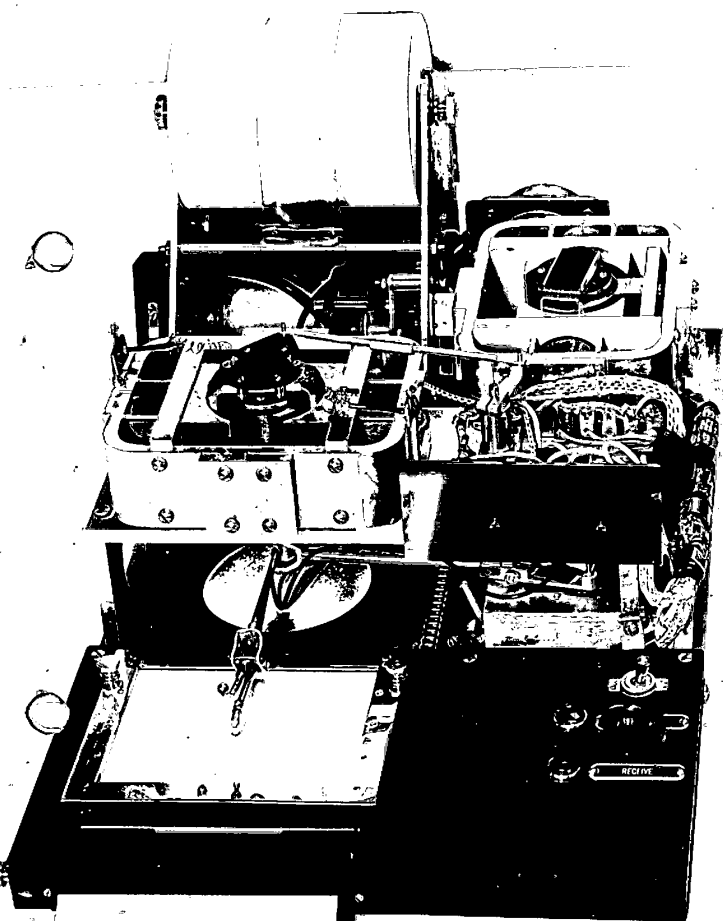
NOW is the
time for all
good men to
come to the aid
of their party!

Hartley
Oscillator

scale

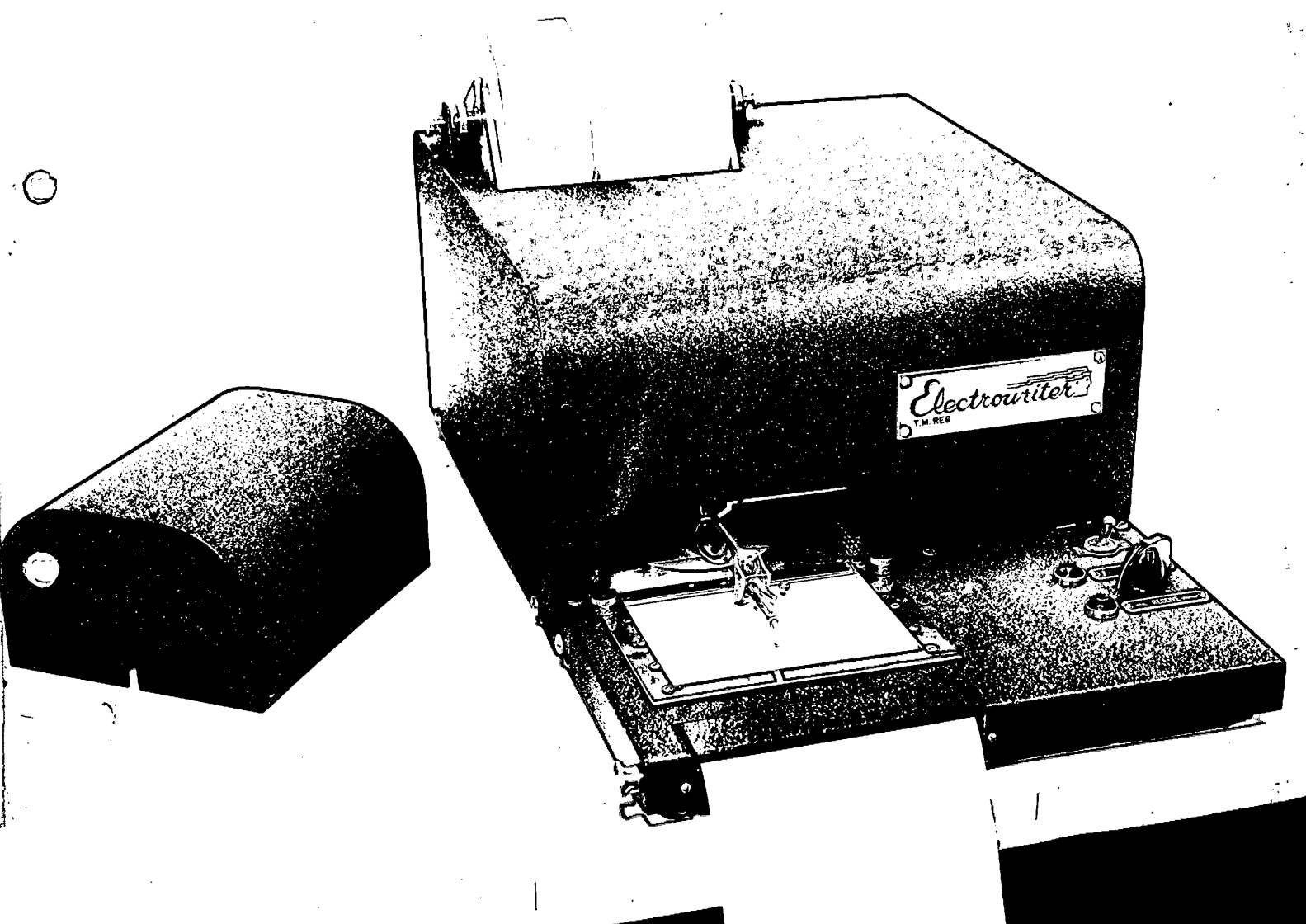


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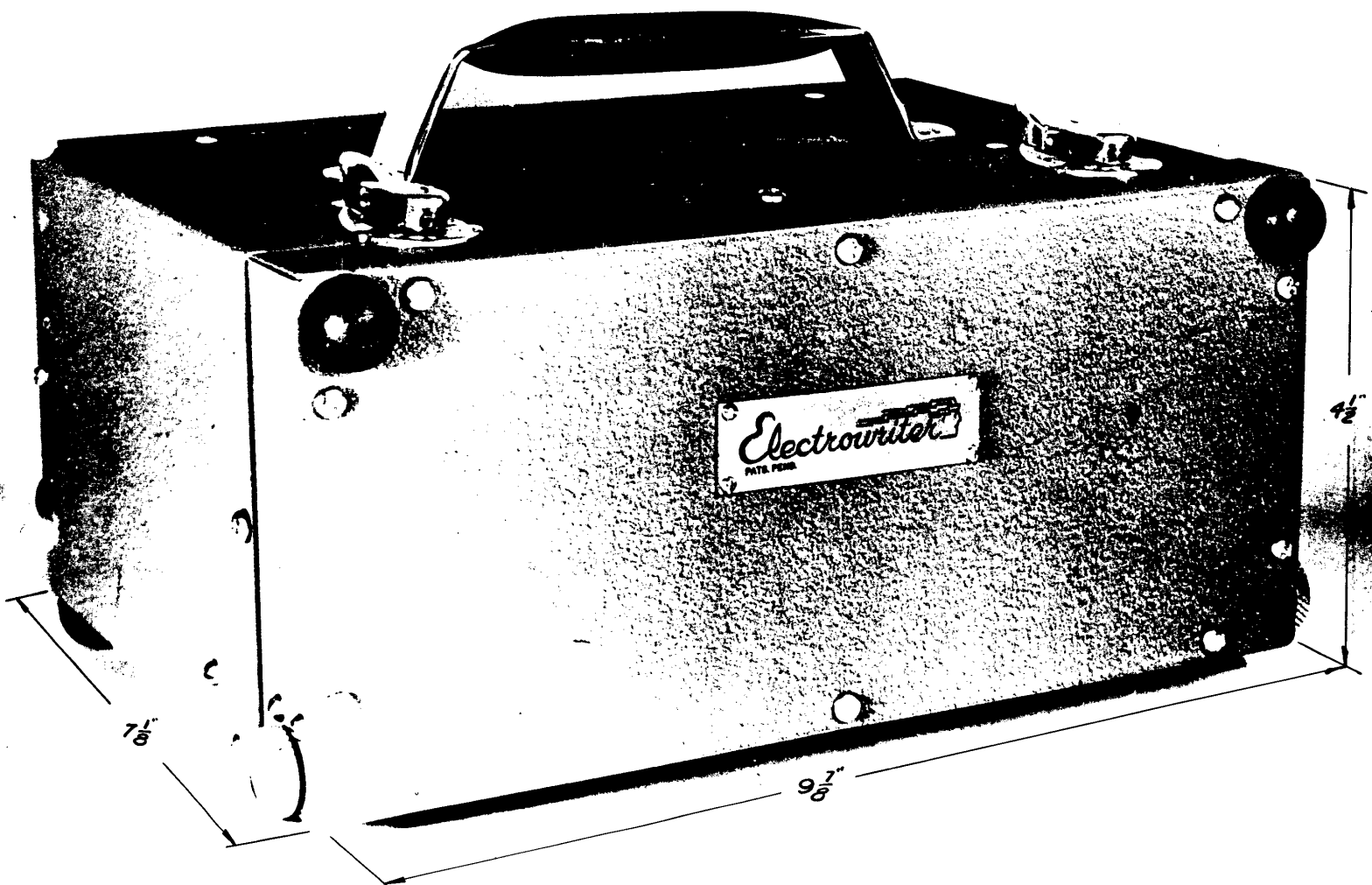
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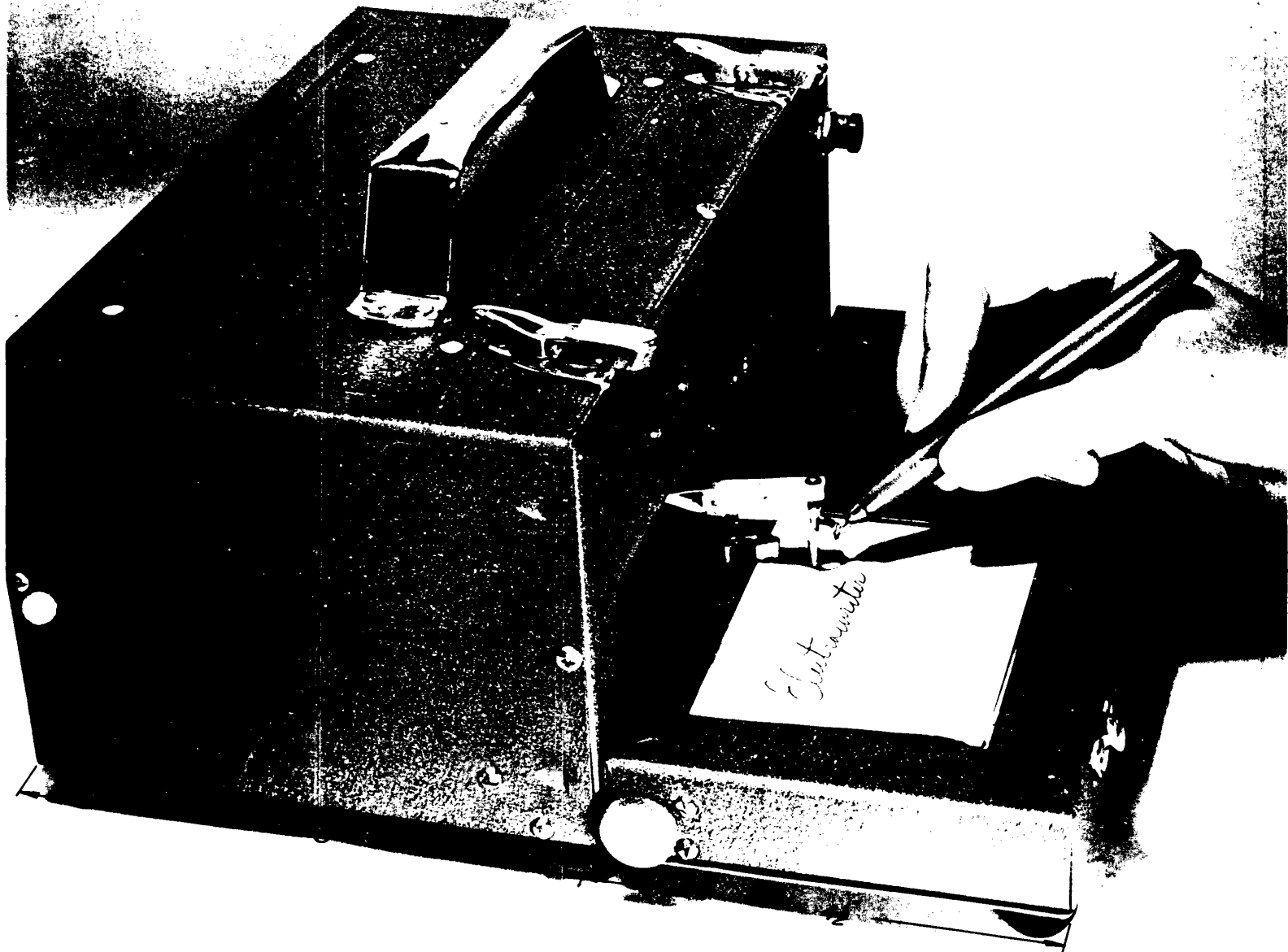
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