

Torpedo Station
Feb. 12th 1874.

Friend Dapo,
Your favor of 7th inst.
was duly rec'd.

I was very glad
to hear from you &
hope to have the plea-
sure of seeing you
before long - With regards
to Duplex - I have
a Model of one on
hand that has been
built at least three
years, which makes
use of a peculiarly
constructed polarized
relay - uses either the
continuity-preserving

key or not at pleasure -
Sends one message
in one direction & the
other in the opposite -
or at pleasure sends
both in the same
direction - a way
station can send
to a terminal station
while that terminal
is sending to or
receiving from the
other terminal -
or from another
way station -

I had a full
sized instrument
constructed about
a year since -
& its delay has
been in special
(not duplex) service
ever since - & has

not required read-
yesterday since the
first time it worked
at least two others
have been constructed
for similar service
because its performance
is so much like ~
This service (as I
said above) is not
duplex - but special
& secret —

I have delayed
applying for patent
on acc. of the
secrecy which
is desirable — If
Mr. Hopkins should
be different — I
should not make
my application
for patent at
present — I will

be very glad to have
him get a good
price from the W.
A. & the animal I
will not let my
price down to his
inquiry. — I have
not yet set a price
though I have in
my own mind what
figures I would take
they are not nominal
however. —

I have noticed
that the Company
wre does not break
at glass insulators
very badly — I think
the heat (like Brooks)
is severe on the wires

Jespee Station
April 13th 1824.

Friend Nap.

I must
ask you for not
replying to your queries
about the Sashwood
patent before - but we
have had so much
sickness & anxiety in
the household for the
last 7 or 8 weeks that
I have felt obliged to
neglect everything that
it was possible to do in
matter of business - we are
a little better off now -
& hope to continue im-
proving - - -

Impedie Statius
Newport R. I.
Dec. 8th 1873,

Friends Raps

How soon

now Our son & Mrs Raps
make us their visit - we
will be greatly delighted
to see you - we pretty well
for us - I am at Boston
every Saturday & some-
times on Thursday but
if J. Pier is soon
when you would come -
even it if were on one
of those days I could
arrive to be at home -
am very busy - never
more so - & would

lik to enter into
conversations with you
with reference to
uniting up the Duplex -
How comes on the new
bank? how signals?
etc &c.

Yours M. G. Fairman

Our Comis Alpheus S. Still
the Minn. is now at
Brooklyn & we expect
him here the last of this
week or first of next
& we would lik to have
you & Mrs D. meet
him here. Please
tell us when you
will come -

F.

was Dickenson's up
of the spiral antecedent
to Grove's form? &
was it antecedent to
the cross form of copper
at the bottom of the
Calland Cell? — in
other words - did he
first use a copper electrode
reacting near to the
top of the blue vitriol
solution - if so then
I should think that
that fact might be
made the basis of a
good claim — I do not
clearly understand the
reason of the complete
separation of the two
liquids — it appears to
occur equally well
whether the spiral
turn one way or the other

whether a plate be used
as Edison uses it - or
as in fig 5 as the patent
or whether a copper
hoop be used as I use
it - * I must confess
I do not understand it
I have not tried the
cross of copper but
have seen others use
a mixture the solutions
clear - I must get
a copy of the Calumet
patent - & look it over

I don't think to
apply for patent on
the hoop form of the
electrode but Scamay
thinks it worth the
while I like it
better than the Edison
plate - & it's less trouble
to make a part in place

than the Lechner
spiral - & gives less
meritans than any other
form that I have tried

I think I will give
that we always had a
ground wire in the signal box
& often used it temporarily
permanently when the circuit
was interrupted — but
never as a matter of choice
that I remember of —
we also had a third wire
to connect to, in our early
experiments but its use
was abandoned — I have
not seen either Carter's
or Mr. Cullough's patent
will hope to see you before long
kind regards to Mrs. Park
Yours truly M. G. Farmer

Despatch Station
Feb. 26th 1878.

F. L. Potts Dear friends,
Yours res'

on the pamphlet -
I would not like a
gri testimony until I
have time to look the
matter up more
fully - I would like
a copy of your patent &
of all various others over
referred & also my
previous testimony - I
am not very well - my
head is weak - & I
fear I would make
a poor show at

What nutr - ever
if I do not after a
long considerate of the
matter - I am almost
unwell & the business for
nearly ten years & has
been very ill & weak
in the time - so if
you do not come this
week or next for
this purpose I shall
be grieved.

Mr Field has
invited me to his anniversary
March 10th - it is possible
that I shall go there &
so consider you not till
my returning to N.Y.

I aint to do the best
that I can to you &
is easier to do this probably
I need to go visit tomor-
ow but -

Please let me
hear from you early
all right but
Yours truly
W. G. Farmer.

Jericho Station
Feb. 27th 1878.

My dear friend Palo.

I think that I
can help you - when
I awoke yesterday I
was very tired & the
labor seemed like a
mountain - but after I
had rested awhile - the
"fearm seemed to rise"
& the fat liquor seemed
more clear below the
surface - It appears
then now that I shall
trust of what an elec-
trical engineer - studies
in the art can do.

to put your system
into operation by ob-
taining a simple &
contractor skilled - does
as an engineer or
brick builder would un-
derstand to construct a
stone masonry after
Hawes' patent - & without
the expense of the in-
venting faculty - Whether
the open was 20-40-a
60 ft. long the walls -
knowing the strength of
material &c. proceed
& calculate the dimensions
of his timbers - Namely
the trans - & girts

all ready - certainly
experts' when it was
put together into its
paper form - it only
satisfies the desire back
so I would have the
interesting electrical engineer
from publicize date - also -
let the claims of the
various parts of your
apparatus - put them well
& expect them to catch - &
they could if he were
sufficiently skilful in the
art - & if he would
proper use of our skill.

I need copies of
your patents - they will

that I do rec
of them, but cannot
by my hand upon them
Please send them on

Sincerely yours
Mrs. F. Farmer

Forrest Station
March 27th 1858.

Friend Pal.

I should have written
sooner but I have
not been well since
my return - I took a
very violent cold at Monroeville,
14th, last Saturday - &
am scarcely ever up without
an aching letter - tis
breast and suppose the
lungs as I cannot now
have done as well as at
this time - I read or
today five of the papers
& saw no other papers
from & called as you
know to write though

for Mr. - No. 205305
is essentially in my
model - & was made in
June 1867 -

Claim 2 anticipates by
me -

No. 205305.

Anticipates by me - X

No. 199117.

Anticipates

No. 196834

Anticipates
switches out lamp initials
by chs?

anticipates

No. 210152 perhaps

with reading in annual

Would it not be best
to make two or more
Cars in the motor -
Claims in 205905
will certainly run into
interior - If any
Claims can be made thus
will not run into
coupling but will
run on cars & then
that will couple
just like one or many
different cars "I"
shall make other Models
& applications - Perhaps
no claim for stops
of widest breadth in the
middle into each car -
I will write you again
on the Motor -
Please let me

3
How are you & yours.
all better -

Say & all
my love.

M. G. Farmer

Jorpech Station
April 25th 1875

Friends N.Y.

Dear Sirs

I have

leaked over the Morse
& Mod. three sketches
one of the screw caps on
the bar board (Bar)

Second of the top board (Top)
 $\frac{1}{2}$

Others connect on the top
board (3) - I find that
the supplementary lines of a
26. are useless - but I did
sometimes connect e, & e,
to F - or rather to C₃ (on
your sketch) & connect f,
to W₁ & b, & w₃, disconnecting

f + b. -- I also
at one time thought of
using the contacts 16 b. --
7 f f, to work a sort of
vernier Rheostat - &
using the contacts B b. &
B f to work the heavy
Rheostat - I think that
was the original intention
of them - but it is so
long since the Model
was made & the descrip-
tive written (which
is lost) that I don't
remember why this
model was in mode -

I have used the
regulator both ways -

so perhaps you can
simply say that
the supplements

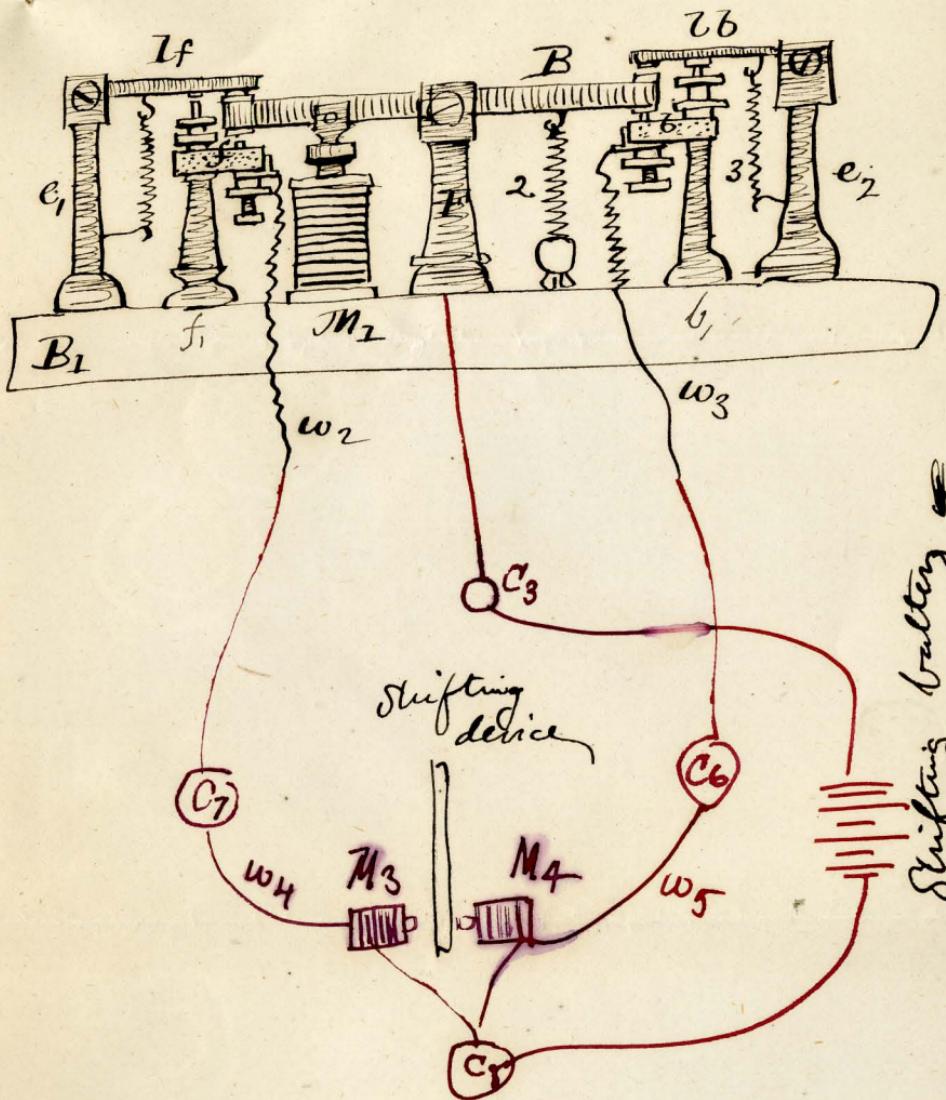
leaves of \$26. as an
alternative way of carrying
the contests -

Mr. Smith was
here last week - &
said he wished to
see N.Y. taking Det-
erminative testimony -

Please have the
enclosed to Mr. Ashley -
or to Mr. Hamilton.

Mary S. Farnier.

M. S. Farnier.



Shifting device
Shifting device

Darwin State
A.M. 25th 1858.

Friars Arch Bay
or Hamilton.

I would
be glad if you could get
& send me one of
the interesting pamphlets issued by
the "American"
"Rapids?" "
"Delegates" "
"Companys" "

Very, yours,

M. G. Farmer.

90

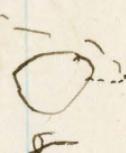
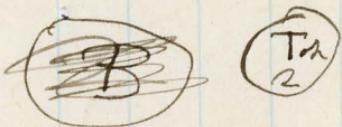
Cup 10 is connected by wires to cap 5

Cups 8 & 6 receive main current.

Cups 1 & 7 receive local battery to work the engine.

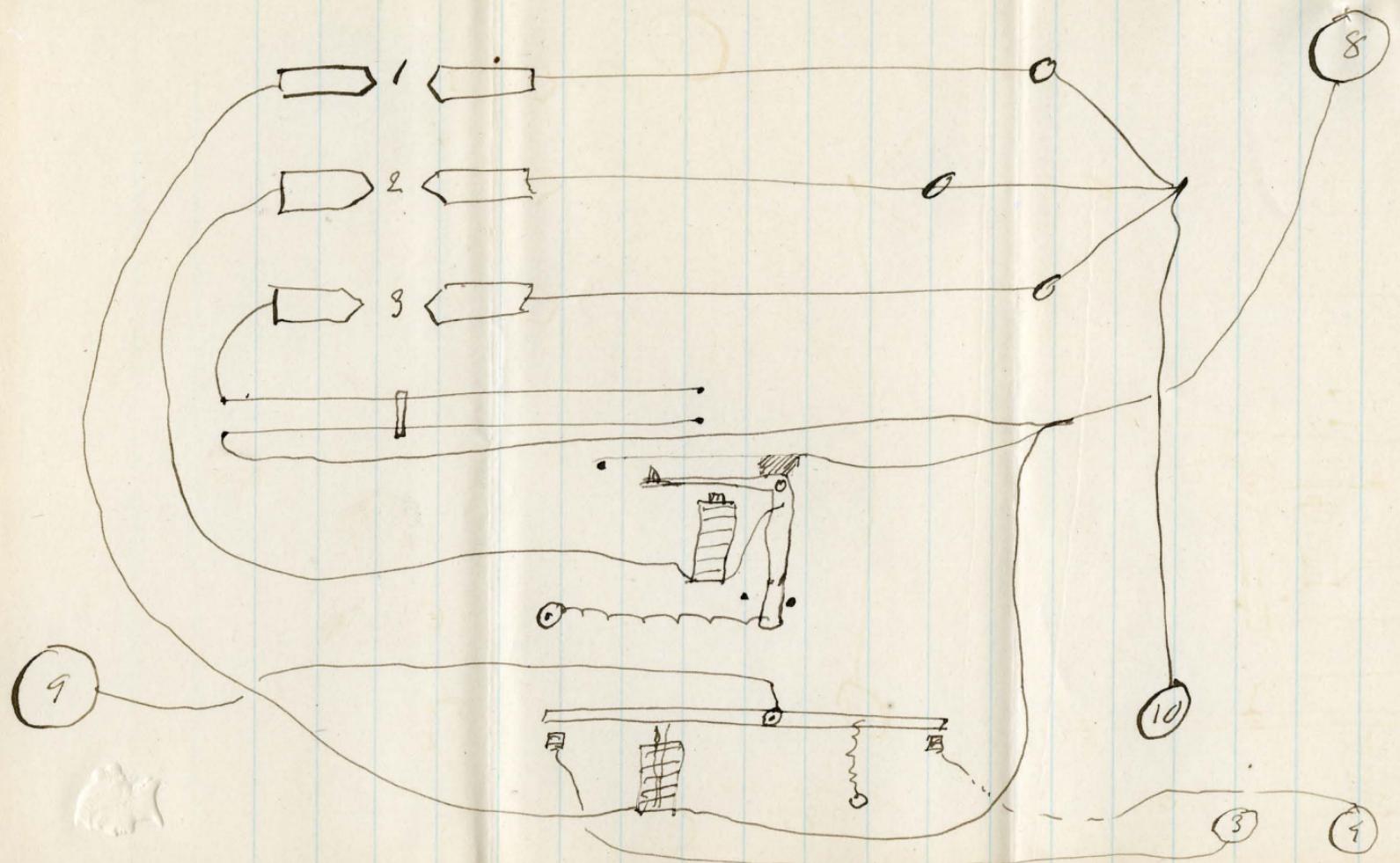
Cups 9 & 2 receive ~~local~~ local battery to work shifting magnets of the Rheostat.

Main circuit.



100

Back side of top-boats.



10

Or

20

Bar¹

30

40

Bark side of Bars.

05

0... Main Circuit.

Torpedo Station
Newport R.I.
Oct. 1st 1873

W. H. Sawyer
Dear Sir

Please send to me
at this place six
of the glass jars
(such as you sent
me two of for the
Sashwood) I
wish to use them
for a Bichromate
battery where I need
a deep cell -

Also if you can
give me an approx-
imate price for the
Sashwood cell.

complet - I
could in a way an-
swer more satisfac-
tory than who ac-
cidentally inquire
of me as to its pris-

I hope to set
to running soon
the two I have &
give them careful
tests -

Sincerely
W. G. Farmer.



For Peck Station

Newport, R. I.

March 20th 1882

F. L. Dah e.

Dear friend

Don't get out of patience with me - I am zig-zagging at your questions as I feel able - have scarcely answered about half of them & will have to make some further progress next week - I feel myself going in strength - somewhat by resting - I am trying to set what rest I can - we are all pretty well for us - that is as far as answer -

Re: inquiry from Mr.
Peter's Office as follows:

"Wash. March 17-1880

Dear Sirs & -- --

-- System of highway by
electrizing No. "825" filed
Jan. 18th 1880.

Claims 1-2-3-8-10 & 11 are
fully covered by Eng. fil. 12572 &
4022 of 1878 --- Claim 13
by Eng. Pat. 2022 of Wheaton -
& Eng. Pat. No. 4689 of 1878 -
Claim 17 by same & by Sawyer
& Eng. 205903 of Jan 25
1878 - Claims 5-6-7-8
are distinct in subject matter
from the other parts of the
application & must be elim-
inated -

The above is about what
we have & signs to express. Now
who shall do the work
of separating this into two
things - or from separate causes -
you? or Samo or else
I would be glad to have you
do it half upon time - The
first meeting Sawyer & Mann.
Should you make or & go post.
The new matter will be on
this very & strange things
the next disallowable claim is
viz 5-12-14-15-16 viz on
what's very strange things.
The kernel of the thing is
as Sawyer & Mann & must
be judged through - I shall
look up Mr. English's points
and send you copies of them.

How are you & your
sister along -

We all send
much love
to you
Dr. G. Farmer.

Dospeck Station
Aug. 2nd 1862

My dear friends
We are grateful
you on the appearance of
the "little strangers" &
will bring them
you - with all the
best things for Father -
Mother & Sisters —

I shall
be glad to see you as
dry that you can come
& think the change
will be good for you
& we can certainly
despatch burns more
rapidly here -

When you come
please bring a hard
basket of ripe peaches
if not too many
trouble - we do not
get ripe ones here -

All pretty well
& send love.

Ever yours
J.W.G. Farmer

Dr F. L. Dabbs

Terrell Station
May 4th 1881.

Friis also

I am much
obliged for your letter
& the description of the
Quail, perhaps you
omitted the great crest
attached to the upper leg
but never mind I under-
stand its working & am
much obliged - I
am sorry to hear of
your ill health - You
will do well to be
careful & abstemious
in all things - I
doubt not the work
required of you will

be at times perplexing
labious & weary -
& a trip to Europe ought
to do you good - if you
could go unencumbered
with care - I hope
soon to hear of your
improved health --

I am greatly
obliged for your efforts
to obtain Chemist
paper for me - perhaps
they fear that I am
at work on Auto-
matics - but that
is the farthest remove
from my thoughts -
as simple an ex-
periment for a tempo-
rary shrapnel -

Alene is my
kindest regards to
Mrs. Stagg - -

Also remember
me to Mr. Berrett. -

Very truly
M. G. Farmer.

Darpeck Station
Oct 16th 1884.

Friends Doso -

I would like
to have you - when in
N.Y. I got me one or
two copies of the
~~Army & Navy Journal~~
for Sept. 5th 1884 -

You will find in
it quite an interesting
acc. of the Darpeck
Experiments which
took place here before
the Senate Committee
in Aug. -

I wish
you would write &
tell me what place
in Conn. it was.
Where you & your wife

Spent the honeymoon
I have forgotten -
but think it was
Litchfield Conn. --

I will visit
you again in a day
or two -

W. H. Report
looks very? but
A & N. Stock don't
look very flattering
to them -

We will be
very glad to see you
here when you & yours
are able to come -

Yours truly

M. G. Farmer