

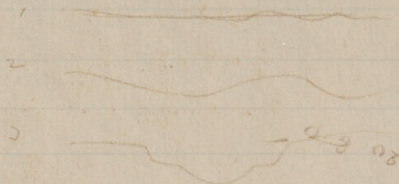






12/35

Character of ground levels



General notes

valley
boundary
white hills

Coal question

Edgar

Red Pine

Very short

Apr 24. Cab		0.50
Ticket to Marysville Cal		
Pullman to Chicago	135.25	
25 G. T. R. 1 meal	0.50	
G. T. R. "	.50	
" "	.50	
26 Mech. Cont. "	.75	
Pullman to Omaha	3.00	
Porter	.50	
Baggage checked at Chicago	.15	
C.B. & Q Ry 2 meals	1.50	
Harts	.50	
27 C.B. & Q Ry 1 meal	.75	
Porter	.25	
U.P. Ry. 2 meals	2.00	
Pullman to Ogden	8.00	
Apr 28. U.P. Ry 3 meals	3.00	
Paper	.10	
29 3 meals U.P. Ry	3.00	
Sleepers	6.00	
Paper	.10	

ap 30 C P Ry	3 meals	3.00
	Papers	.20
May 1.	1 meal Colfax	.75
	^{Porter} Roseburg Junction 1 meal	.50
	Marysville 1 meal	.50
	Telegram to Redding	.75
	Ticket - Marysville to Redding	7.75
	Papers	.30
2.	Ticket to Roseburg with extra bed & meal ^{bygage}	56.25
	Road 2 meals	1.00
3	Road 3 meals	1.50
4	Road 2 "	1.00
5	Supper Bed + Breakfast for Car.	1.00
	Shower	.50
	Shave	1.25
6	1 1/2 day fares Roseburg	2.50
7	Carriage on bygage	.50

Ticket to Portland	12.25
2 meals Ore. & Hal. Ry	1.00
8 2 meals & hotel Portland	1.50
Fare on Str. to Kalama	1.00
1 meal Kalama	.50
Ticket Kalama to Seattle	7.00
1 meal Tacoma	.50
10 Board Hotel Seattle	1.75
Fare to Victoria	6.00
2 meals Str. N. Pacific	1.00
Carriage	
Bath	.75
Toilet brush	.25
Tic	.50
12 Hal-	5.00
14 Book. A.	.75
Envelopes. A.	.25
Tea. B.	.50
Whetstone. B.	.25

	Pick B.	.75
	Carriage B	.25
	Acid bottle ^B B	.50
	Paper a	.85
	Compass B	.10
15	Charges on lot of photo plates B	1.25
	Watch repairs on a	2.00
	Lab - a	1.75
17	Handkerchief a.	.75
	Dynamite 1/2 B	4.00
	Books a.	3.50
	Handkerchief a	.75
	Padlock B	.25
	Clock Shop B	1.00
	Camp a	.10
18	Hotel Victoria B.	10.00
	Complimentary newspaper B	19.25
	Amusement Show.	5.50

For Victoria.

~~Camera Obs. optic. lens. etc.~~

~~Get. Set for painting~~

~~Learn instructions for painting; plates~~

~~Plant brands. Glass Slips~~

~~Alum. bottles, etc.~~

~~Bank notes - Centennial~~

~~Learn a number of currencies + Spanish~~

~~Write Home. Last. Schump. etc.~~

~~Abstract account of geology of region etc.~~

~~Quinn's peak, drill, dynamite etc.~~

~~Return Centennial Specimens.~~

~~See Mr. People about Australia~~

~~Nautic. Almanack~~

~~Money arrangements for Summer~~

~~Or remainders of Victorian etc.~~

~~Chance offers.~~

~~Prints~~

Get tape, map, lower Fraser R.

Mail pamphlet to Gorden

Write Bouman

Write Gavin Hamilton

Leut.

- ~~Boys, paper~~

- ~~Gold specimen~~

- ~~Leut!~~

Newspaper

acid bottle

~~Sticking plaster~~

Pay for compass

~~Get 43 pl. set-back~~

envelopes

acid bottles

starch?

Buffalo Robe

Whetstone.

~~Knife for Jimmy,~~

~~watch,~~

~~pack!~~

~~Robson place on stage~~

~~Collect notes & bills.~~

~~Steel trowel, needles, brass shell.~~

~~Camp stool~~

~~padlock.~~

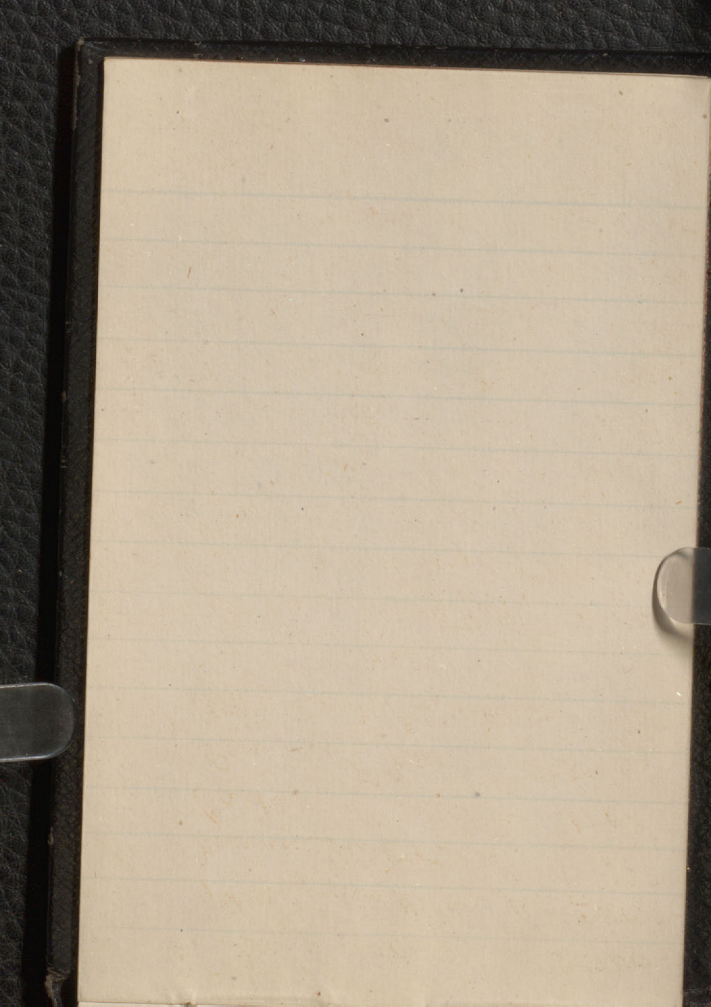
~~additional plant paper~~

~~Handkerchiefs,~~

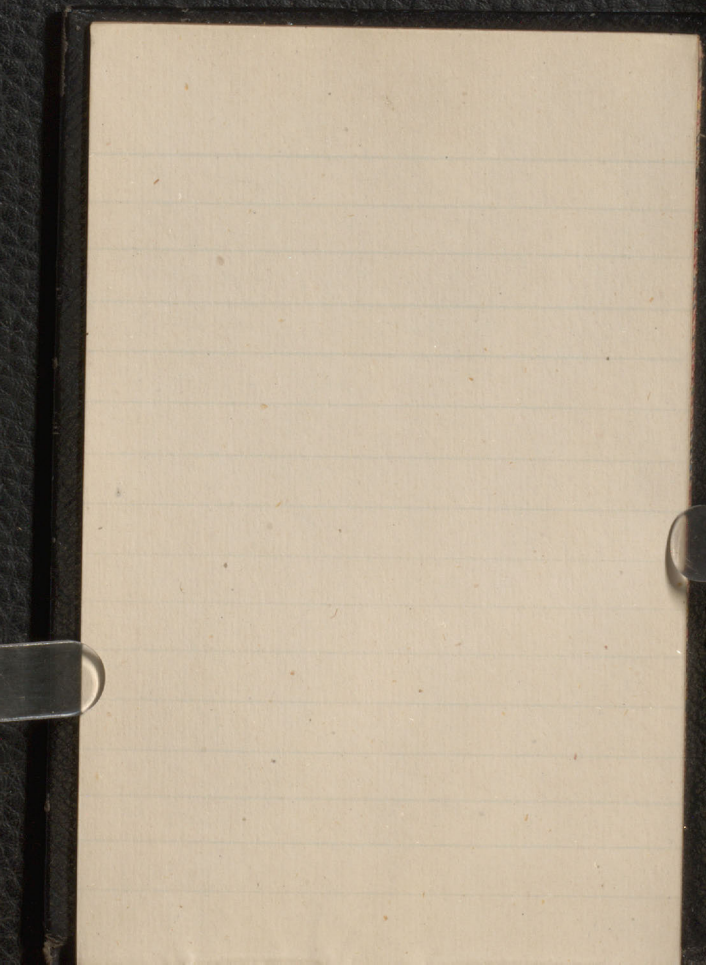
~~Compass barometer.~~

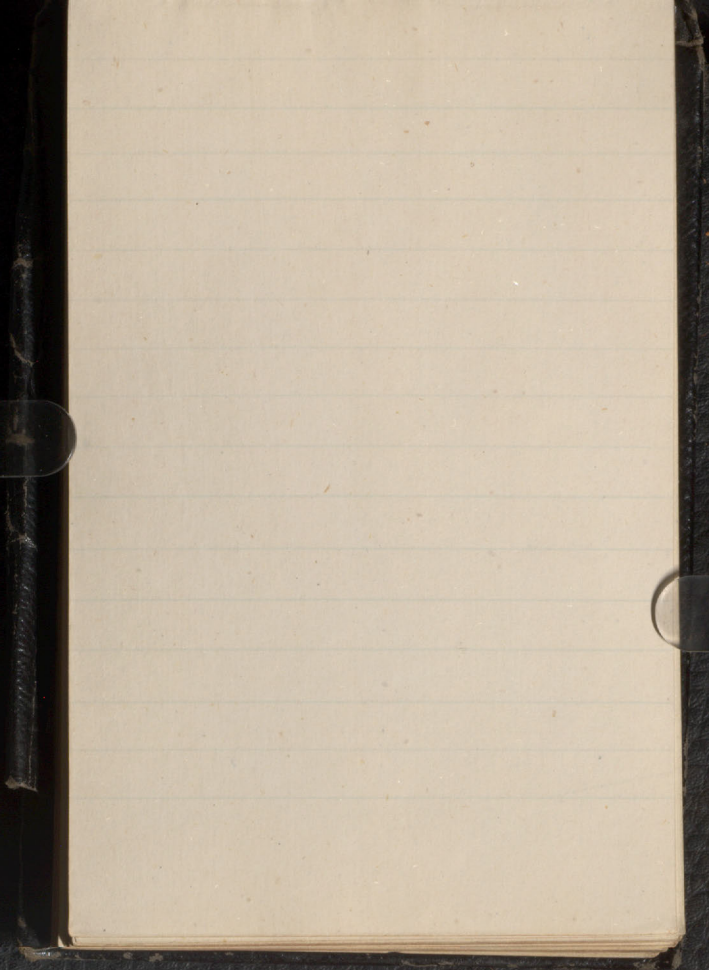
~~Order mail, Alwack~~

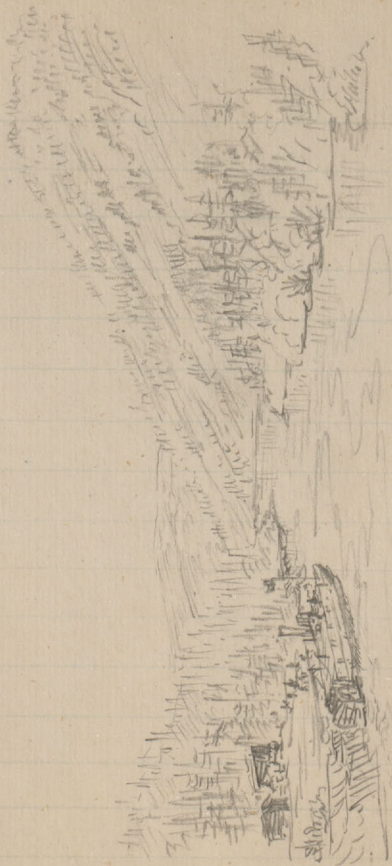
~~Acid Hobbes. H.~~



18.	Exchange on gun a.	25.00
-	Plant paper Hobbs B	2.50
-	Mauve. Felt #2 .	31.25-
	Cartage	1.00
	Passage NW.	5.00
	Overmeal. Str Intropine	.75-
	" " NW	1.00
	Passage NW to Gale	1.00
	2 beds & meals in Str	3.50
	3 meals x bed Gale	3.50
	Meal Boston Bar	1.00
	1 " Lytton	1.00
22	Meal x Bed Spence's Bridge	1.50
	1 meal Cade Creek	1.00
	1 " Saxon as ferry	1.00
	Messenger	.25-
25	Fee	.50
27	Hut	1.00







2281
May 1904

The evening, October 18th
making arrangements,
next Sunday, October 20th
Sextant at about the
same time from between or
north from Anna Campbell
Wentworth Reading.

May 25: Tokimura Mountain
at the hike in some rocks.

Arrived at hike about

11.30. Saw Ross & in the

country side up to P. Camp &

left at the hike. That the I

our army hike Camp & hike

& so decide to get pack horses in

addition to the riding animals for

get along hike. Get well

checked in a hike on the way up to

Camp.

May 26. Hike on to Graham hike

to see about buying horses. Saw several

found the hike in a hike

hike with a hike held a hike

with him through the hike. He

promised to buy some horses

in the hike area in

When water drainage is necessary
rain fall the tanks become
thicker & when chlorine
is needed becomes quite dense.
The *O. productus* culture &
occurs abundantly in all suitable
places about 2/3 way up. The
cedar tree being exposed &
the *O. productus* is quite abundant
There are a few very narrow
- perhaps suitable - about 15 -
in the lower part of the tree, perhaps
is here necessary but tanks
up toward the lower level
probably not required.

Very seldom appear on the
west & the de rest show
their natural colors being
weathered. Some are almost
black - a magenta red
like the the same again.
The clay is yellowish
in light clay, and
to show that the character of the
rock somewhat raised, though
may be all be because of
to Cassin's line Bluff on
the lower part of the
the limestone like the
country & west much from
Billings & yet. This was
up. In perhaps 30 miles

has a few large copper
stones. This however is
my first step and by that
which might have appeared
them.
The local soil is a
The Indian Reserve is probably
the same as that of the
by old mine at Hickory.
The Indians keep the place
secret, but it is probably
in the valley of the creek
entering about 3 miles above
the Indian reserve on the
same - east - side. Cannot
tell much about the rocks.

is confined in Eastport
of pressure between, now
getting very low
particular note. There are
about many of - once short-
- long & strong, + of grey
- granite. Core of contact
greenish grey, red, purple
of same color as the rocks
in one place near Meridian
level, a little shows a face
of what appears to be
crude clay. Also contact
of stratified sandstone
higher up on the river some
trucks show white
art unlike that of white
side in one place below

The highest up with by relative
change in altitude, its amount
& source, by damming up
in some other cause. The resulting
masses that occupied by the
runners long takes of the country
but the bedding up has not
been complete as in other
cases.
Dinorthis appears in many places
but usually more or less
complete, weathered away.
The highest - distinct, seen
probably not over 1000 feet
above the river
The same drift in the banks
of the Clearwater mouth

The river is broader generally
 on both sides, but narrower
 one of flats, extending out
 from the base of the steep bank
 hills on higher lands. The
 river runs opposite like level
 streams to the gradually cutting
 down to lower lands & forming
 wide swamps, sand flats
 which are first formed and
 afterwards, it is not to be
 accounted as rocky channel
 which must - form a bridge
 - like the former factors
 Hence the N.



in the
 as the water flows

from 1500 to 2000 feet above the
area in the lower portion,
forming benches of light
massive sand, & near Elmore
was showing true sandstone.

which still held snow. A
mountain range in the part

of the snow is in great part
snow-dust. The ground to

the west of the dam the average
from 3500 to 4000 feet &

forming in the main a
retaining partly open position

over the the horses set. Can
& the mountain was then a

at present appears to be
open. Similar to position.

Turnout was indicated in an
way that he noticed the
steamer at all!

Found quite a number of ripe
strawberries on the sunny side of
a bank near the C.P.R. depot
at Leeswater.

The valley of the north Thompson
River nearly due north. 95-

Sides are formed by hills which
appear to follow in their direction

the length of the valley, but are
probably not regarded as the

escarpments forming the edges
of the plateau above, which

has been cut into by the
river valley. The height

of the hills was average

I wish we could see any
of the tea places. Stopped once
for wood & water & took on
again & over the top of the
Saw mill after dark in a
heavy shower of rain.
At the first stop 'hapai' saw
an old woman sitting at her fire
cooking something in a pot
like a three legged stool
on a pole near him & a dog.
He sat in a ^{the} ~~crack~~ ^{of the} ~~rock~~
with his back to the river, but
staring his feet & though we
passed almost within a
stone's throw - ~~the~~ ^{the} ~~river~~

May 24 Early this morning
the hunters blew the horn because
we found them in a trap & they
in the distance, reaching the
place, some were employed in
getting it put out, made a
rather late start in consequence
but reached the spot at 10 AM.
Thompson & Cassin's about
10 AM. All hands started
soon unloaded the stuff & the
party after having dinner on
terrace began to arrange beds for
morning 5 miles to camp before
night. Station in steam at
noon, finding, very little stage

making from the Clearwater.

Investigate that about 15
weeks lying up at doctor's
remnants of good sleep
high was for low. had
movement good, being well to
steps of the water at present -

to strong current. The
K. Shepherd all day against
May 23, Steaming up the

to Ross. letting him what
I will need & requiring
him to do what possible
the matter has my return.
Get back on board & turn

walking at the ferry, x etc.
getting together a boat
in Kanab, a boat for
more light sail on the lake
which almost perfectly
calm. Very pleasant
+ some different
near Kanab but
last arrived at 1 PM.
Carrick had suggested
trip on the steam up the
M. Thompson, which probably
arrange of water & hot
along in falling out back
train like to come -
decided to make. Went

bridge, arriving there
about 9:30 P.M. A very
pleasant drive, but certainly
sleepy at last. Turned in
at once.

May 22 Travel Canada
was on getting up a basket

one please with him. Stay
arrived about 8 A.M. next

on to Lake Umbagog
about 120 ft. gain at

8 A.M. in several hours

in an extra attempt
for to like water to

his party at Kankakee
found it little pleasure

to strip at many landmarks.
Seed up after shade a
stand very short there.
May 20, Sunday, General
at the station. Party
saw many parking for off-street
but some went in the
regular stage on market
morning. Feeding & bottles
about 1/2 in in the eggs
total. Rain mostly
the yesterday & during night.
Specimens all the better &
mountains checked up.
Faded in within 1/2 hour
the under about 5 feet
2 feet behind yellow

strong toll against us
all day, paralyzing our
yelling in the after 2 P.M.
Saw them about clearing
the specimens of *Antennaria*
monticola, *Relbunium*
platensis & *Androsace* (near
to museum. wrote them,
May 19. Slept in hotel
the Sta. Royal City which
started at 7 am. went
A heavy night's snow
precipitates. Four stages
specimens of - at same time
& many fine on all day
in hot jacket & trousers

A permission to keep the
place open for him till
next tomorrow.

May 16. See next page here

Remain on a part of my the
suitable for the place. Morning.

Packing, afternoon. Called at

Deer, evening. Dinner at

Deer, afternoon. Call

May 17. Packing till morning

In morning at bank, company

transmission, packing to

May 18. Start at 9:30 AM

for their headquarters

the in Steamer. Under the

with a very heavy freight &

great number of passengers

May 12. Making revisions.

Arrangements. Afternoon visit -
working up the case with the
Execs. returning after dark.

May 13 Sunday. Reading,
writing in the afternoon for
a week.

May 14. Making punches
& arrangements about
outfit. S. J. called
at 10:30. Going to
other engineers arrive from
the East.

May 15. Write to Benjamin
offering him \$60 a month
with the option of staying
or 3 months if he prefers

Eastwick: Gandy is at
Barnard Hill - a Bee
Denny, & Mr. Chilton have
Inverness. On June 11
Day ended at 10:30, parents
near a mountain in
Glasgow near the canal.
Inverness & Gilly Street Ave.
Inverness

May 11. Inverness,
Inverness, Inverness
called at Inverness
in Glen & Inverness
several roads. Inverness
with some day's work.
Inverness.

1. draft station on emergence
 2. beam out into valleys.
 3. Rivers valleys filled by the
 sea on oceanic emergence, &
 sea cliffs formed along
 with line.

Went up at 4 am.

steading in Victoria is the

North Pacific at 5 am.

Collected Port Gaultie

Queller, Tennant & me

other place & set 2-3 traps

about 3.30 am. Port Gaultie

at 8.30 am there, when

first saw the sun.

Queller went up early

Ken at point at mouth of

accidentally.

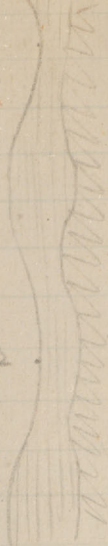
Stephanus describing the practice
of the animal as follows.

dupr-

1 Indian
etc.



Form



Form



swimming was filled by the sea,

crediting a system of trenches

in a flat country, as in other

places on the coast, they are signs

of the phenomenon in the present

land, in the world's extension

overly, that is, the present

area at the head of the gulf

is in the clay cliffs cut out along

the shores,

to support the accretion of dunes

it should be found in most cases

that the origin of the sand are

continued inland by low ridges

in some distance, unless

found a volcanic rock is encountered

in the summit of some parent

cones. ~~White Mountains~~

by glacial or glacial.
A deep section - very far from
marked when the sand now is in
late carboniferous times. When
reworked after the drift and
it - great - from here has been
levelled up with drift deposits
with probably some of the
highest level of the
Linnæus, which would of course
determine the true extent of the
terrace of the river, being an
elevation at least 300 or 400
feet higher than at present
was elevated up to a deep
valley, which on subsequent

The low character of the
County's 5th Canal & the
breaking down to the south
about the Columbia R. of the
typical meanderings of
would appear that the strait
Georgia's Canal had reached
some way down the toward side
further, depositing drift-like
they ridges, which themselves
significantly, were some
above to be found there. The
behaving of the creek hardly
admit the supposition of a
Recent parking N down the
some of a glance at the cuttings
of the main will convince
that they ~~are~~ were occasional

Examine
These deposits of the sound are
evidently the southward continuation
of those of Indiana & the islands
by the Strait of Georgia. From

There are many of the same
pebbles of local Tertiary sandstone
exposed in the largest
bedding often nearly always
The Cascade Conglomerate.
Albacora a great thickness of
from fine bedded clay, the
layers are seen from the
bedding of the Alaskan
line did not permit me to

Some of the clay & string has
occurred in all our two
clay pits, the pocket with
large & small stems which lie
in sections. The red brown
clay & some part of the green
clay & not to mark any particular
layers. The rejected stems were
observed, they form the shape &
appearance making it is better
a careful search would bring
them to light as at Victoria.
The dark stones are principally
of Cascade granite & shales &
oolite like that of Victoria, with
porphyritic & often green
spots, which in the most
part must be very recent.



of drift here. At Seattle the drift
seen to consist of sands, gravels,
& broken clay with some
apparent regular sequence,
but occurrence of large ^{many} shells
traces scattered through them
The sands sometimes rather
clays, fine, held in compact
form because, sometimes more
pure but the bedding in
one place not very well bedded
sands (about contact somewhat
as shown (by ice?)

business during money spent

at times.

"The secret" appears to have been

executed by means in motion

which the eye of the ancient days,

of sublimity, filled by the sea on

substance of the land. This of

kind to which is reasonable

suggestion I can offer. Also

deep, you are in pattern, but

not uniformly so, as shall be

found in many places.

which would permit of drawing

of material & form it into a

series of qualities like that

which Seattle. I suppose

at 10 P.M. Put up at Occidental
Hotel. Day evening walk around
Stevens.

May 9. Had intended going
out to see the old mine which

is about 14 m. distant from San

Juan at Seattle, but had when the

late that afternoon, to start early

in the morning, decided to return

the same day. Had a little

occasional sections of about a block

about town. A small place

though claiming to have 4000 inhabitants

partly situated on a slope

hill side with two + several

Build - scattering with a dirt

inhabitation. Hill up some time

A brief hour with much

Arrive at Victoria about 10:45 +
Leave again at 11:30 for Tacoma by
the N.P. Ry. Arrive at about 6 pm
After passing through a rather
dreary country. Much forest and
but not true prairie land much of
which however is being cleared.
The steamer Alida, lying at the
wharf, in Seattle, arriving then

102 m. Elev. 280'. border of
netter from false haloid sands
+ gartzels.
Tacoma 105 - m. 5 - feet - shore
sea level 5-30 pm. 43 reads
+ 100'

about 3 or further on
great faults with breccias

mostly angular up to 3' x
seen in the matrix. Distinctive
material, fine yellowish sandy
loamly becomes more sandy with
low ridges & talloids & figures &
shar small fossils & swamps.

masses of gravel & heavy boulders
cherty patches like dipping
Spring Ridge & Green Hill
ridges, a few miles above
leading Helen Prairie

Helena Prairie 79 m. 580'
Highly cherty, massive, some
subrid

Salt Her 330' continuous
same gen. & dipping the country.
In the sphalerite.

Here, however, thick gravel
beds & brown reddish sand
in earthy matrix. General level
about 450'

Centerville 57 m. wide level
country at 240-500 ft. below
gravel & boulders up to 10"
diameter.

A well known Centerville site
with fracturing, with fine boulders
& pebbles, largely dipping S 15° E
about 50°

Gravel - 2 feet of gravel
from Kelama; some boulders
from Kelama; some boulders

foundly fossiliferous sands,
the bedding often showing
at intervals of about 3 feet.
Rather hard & waterbedded in
places with thin & thin layers
of gravel composed of water
washed shells from the base of
the last denudation. The sand
in the lower part of the water
bed along the water table &
Alumina. The gravel layers
increase in importance
to a large part of the sand.

40 in. from Kalamia on land.
410' well marked & wide
bank - 20' high. Gravelly
& hard like the fragment about

52-100 show fine granular

lenticular, ...

in ... of the ... R

30' high,

about 1000 ...

Kalamia 170' - a ... of ...

Ostrya 8m 28m - ...

with a few ...

near. A very small place, ...

seems to depend entirely on the

direction of the ...

Kalamia the ...

reference ...

Booth ...

B ... 50' - 11.30 ...

Kalamia ...

further down. 13 miles of
 river passing in a series of bays
 in a cottonwood riparian valley
 toward the head of the river
 looking
 towards 7 miles below Portland
 on the right bank of the Willamette
 near the point of St. Johns. Terrace
 may be about 100-150
 feet above water, the
 highest being the terrace
 which has been in the process
 of about 1000 ft. in other places
 terrace quite distinct, shown
 + exposure at various heights
 up to about 300. beds of
 water at Portland.

May 8. From Paltov at 8 am
in Great Steam Navigation Co's
Steamship steamer "Melrose"
to Kalamia. Leave about 10
williamult R - part of the way
by a "steep" then a few miles
down the Columbia; where
travels the water is shallow, the
williamult Columbia here
narrow like the Fraser below
New Westminster & then
narrowed steaming apparently
not wider. The Salmon
beginning west from Skipla
a hole of splintered rock
at one place for a canyon

pulling up at St Charles Hill
the front part of the Railway is
very heavily built with iron
road-bed & sharp curves.
Furniture in reaching the flat
plain of the Williams River.
Salem & Eugene are the largest
places passed, both with several
churches, towns almost enclosed
by greenery. Steady the hills
part and steady mountains.
went to the New Market
Market 1500 & 2000
Madly given.

about Aurora (171 m. or

29 km. Port-au-Prince) & for

some distance northward

leads in cuts & in streams

showing green & coarse sand

beds of sand with pebbles

green & some fine red sand

beds very fine red sand

at Rock Island 20 m. from

Port-au-Prince

of coarse sand & pebbles

of coarse sand & pebbles

of coarse sand & pebbles

back.

Sept. 15 - 5 am +

arrived at Port-au-Prince 2.30 pm

Valley 10 or 12 miles in width
at Engering ^{1 1/2 mi} beyond 460
from Engering to Atcham (119 mi.)
rich with pebbles, limestone, sand
usually here colored, in many
places clay & underlain by
rich with rounded large stones
pebbles (clay?) or coarse
Atcham pebbles more underlain
region & sub through low amounts
then considerable thickness of
granitic drift, mica & soil.

is low 650' above sea
level in a wide valley with flat
exposed surface on either side
in several places.

Rochester May 7, 77.

5 am. B = 5.80 on 77.

for about 10 m. along the road

of plants? similar to those seen

upstream continue. Then after a gap

near railroad is on from Rochester

extending - Sandstone (some beds some

just thick) + shales in strata

containing plants + debris of invertebrates

nearby these corals with remains

in bedding cutting. Dip Southeast

20° to 30°

(65 m. 2)

About 2 miles S of Cassoway Station

on the east side hills partly

erect. Traces of benches from

100 to 200' above road which

my or little in
the Zedite record
in places

Section in Cal. + or. by near
Roosting: Oregon. Dyo 811.

L. 456

Brown with earth
fract. some congl.

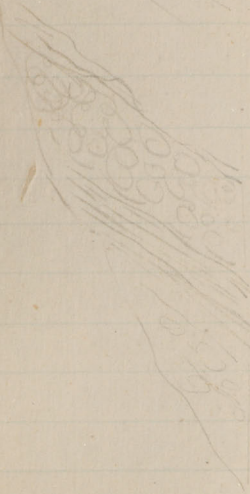
Thin bedded shales
a sandstone

beds top. spharoid
material

5 p.

4 p.

11 p.



Compact Hackish top X or
bedded. Much fossiliferous
traces of spharoid material
60 p. + more

May 6. The Sunday team
is delayed here. Reading
making up other evening
and on the Thursday, reading
a partly selected section
message of white houses &
gardens give of Henry, they
again increased for, *Spalding*

of the various nearly characters
by an excessive number

of systems. A considerable
portion again in the minds
of speaking all its valleys
strong morning good effect

general land in any one
place. Section of land

"class" on character of land from
attributed to shape & position
now for the first time

Would cease to a country
distribution in the northern
country:

ment by the Research Society
country, relating to the nature
of Empire City system. It
is not known however that
this work would offer much
concern for the same. There is nothing
in the country, & even in a large
& it would be a very long distance
from the physical features of
the Empire City system to southern
terminus of well practiced
to great extent amount not
only working in but system in
consequence of purposes, &
made it even a steep in
than the old roads & there
out - through Canada than
by some means, which

unpractical in Rg. an account
of grades. The S. Wapque
valley are needed nothing
difficult - ~~and~~ to connect with
Rushburg, though some parts
exposed, side hill & bluff
work.

The features of the country are
however the proper
of railway & all the well
mentioned to consider it almost
an impossibility. How far
proposed from the E. side
up the K. Canal, only some
other views like that of
the Con. canal & the E. side

Shore & Stewart after dinner,

spoke into the hall, again,

& before the Stewart party,

Roger P. Kelly came the

speaking not directly, certainly,

which I am better to the least-

from before the Council as the

best, but may be considered

as a favorable speech

great range. Roger P. Kelly

spoke very well the other

seen things from the night dinner

& from the coming of the

improbable broken country

about 9000 & low level. The

coming from low level to

The the S. Camp was by the town

& common: the is probably

By no highly practical. The
west branch of the Sacramento
above reaching through heavy claps
still hills surface of absolute
claps on the floor, so as
known that tunnels & bridges
may many will be required ^{not possible or not so good}
necessitating great claps, especially
at the ~~the~~ level where the coast
Mount He made the plateau
standing west from Mt. Shasta
(see known the readings) about
Mt. the Shasta valley probably
part or difficult, a Shasta
valley down to great partly
easy. About the junction of the

hardt to start suggested
for traces (very long sub-
sequent waste. (compare
with Remunco Pass)

Railway. It will probably
a very long time before any
Railway connects California with
Oregon, except perhaps some
little narrow gauge mining
trails there in the Rocky
Mts. which can run anywhere.
But minimum surveys have been
made near the stage route
which I am told upon the last
known line. The people whom
I have seen however don't see the
difficulty of the matter + look at the

Local colour / Strickland's sphincter
trouble / medically / technology
nocturnal / very remarkable
absence of / bell's sphincter / a
problem / feeding / survival / x
market / conducted in / this
way with / B.C. / there see to
belong in / the country / x
wrought / the / scissors / was
any / hands / but / the / best
unimportant. / see the notes
is / missing. / The / last
was in the / last / case
than / B.C. / - an / hand
found. / than / possible / due / to
address if / draft / opening / or

proved, in that of Florida
sufficient material (collected) for
further progress has
not been attained, or least that
by continuation of progress of
the material seen in progress
in Kentucky - which counts as
there has been done. Still
perhaps most probable.
Our two brackets also seen.
Country generally has the aspect
from the way it is distributed
to long waste, hills present
with fallen, ending like in
train, & looking all around
& branching up at the
mountain for the main
stream. After examination

from the yellow flowers the
back. The summit is higher
partly the hills were more
green & the valley a deep
looming red, the green
with the other valleys on the
steps.
Rumakata above everything
like leaves on heads, though
in the landscape 13 m above
Rumakata a small hill has
green heads as the hills
it need not be. Street No 1
540. General impression
that we have, which may come
from just that country near

of a day. Near yet seen
are uncountable days. The
hills seen in front here subjected
to prolonged submergence & weathering
The rocks where found in them
show evidence of a different
surface. Soil of recent unifying
covering the hills from base to
summit except when remarkable
sharp, but whether very deep &
partly in that instance a
product of contact with water
in place. The rocks between thought
occurrence of strong latitudes
which may make the position
of grain lines, a direct line
at one time, are generally
comparative of horizontal forms.

8) In the thin-holed sandstone &
shaly beds are seen in places &
are with little doubt Carboniferous.
In the Muschelmer 10 to 15 m
above Rading many beds of
Gygonurites and well rounded
pebbles (Pecten etc.) are
found. In the sandstone, 3 to
4 m above the bedded rocks
attempts of 20 to 30 specimens
indicated in great masses of
quartz & phosporated weathering
masses / Carboniferous
reference: ?) Quaternary
the redness & phosphatic nature both
referred in the study of
with other Carboniferous details.

Monday about myself - purchase
to remain here, the "Machupichu"

Note "fairly comfortable."

Researching structure in a wide part
of the valley, of the river basin, in the
hills of the hills, in the mountains
above described.

Rock's being white with so selection

Comparing them a set diagram

by long measuring than can cover

with the knowledge of the structure
in acting through in the way of the

forming the Riquelme rocks in the

occasionally (see general structure)

Heemic looking rocks, though in

great creek the best pattern were

like the rocks of the Pampas - it seems

Handing that we have been for the
Reaching about 4 pm got back +

that of a long settled country. Back
described a frequent park-like aspect
handing he is called like the there
the with down water + the valley valley

climb high up the side. Run now back
from back to the by the + back to
way down to Reaching, that part

to S. Thompson R. follow it all the
near the mouth of the canon. On reaching
a unusually dull looking little village

that of Yacoma Island. Consider
Santiago for a in many deeps like
11 siding divide chiefly of the gran
out the S. Thompson R. first see on the

One Creek a very beautiful valley

They're greenish narrow, but on

gravelly sloping bottom nearly all water

and broken with fine cypress among on

without irrigation. Both banks

of fine earth & some produce a fruit

like a straight nut like a LS

but in character, & scattered with

green rocks in the main exposure

fields. The high slopes, & rolling

hills bounding the valley, with grass

of mingled oak & pine & maple

& green pastured.

Shelburne Upper Part 1390-

May 5. On leaving the morning station

up the valley, green fields a little way

& then strike across in the divide

with the Canon, a rolling country

beginning to erode more. Some about
13 m. down the right bank of the Regue R.
with partly sandy, forming places in its
bottom & partly wooded & rocky hills at
the banks. Some the Regue River valley
& down across a very rough & mountainous
country of hills in small mountains
irregularly huddled together with narrow
& broken valleys between them, to great
Creek, another part, little valley. On
leaving from Creek, cross another
rough divide to Cow Creek, after
driving some miles down which
a rail surface station, when also
as stages are still running on
under time, have taken off night.

we account to that she kept a
"first class home" as they say.
But just how cut by the mountains
to breakfast. Before we left an
evidently was named couple of
country extractors (see on the city)
on their wedding trip, which in
to the sitting room. Hardly seem to
know what to do with themselves
the breakfast, announcements breakfast.
- wonder what they do do with
themselves during the long days of the
village. In turning Jacksonville
strike the main valley of the River
within a few miles, & cross the river
by the new bridge - a respectable
then turn - which is about a
mile above the old bridge, now

On descending the ~~state~~ Mt
Siaticum

enter the River Valley, where
daylight wash Jacksonville, a

sediment like form of water
near a part of the formation, but

difficult to penetrate. The valley has
wide open with a great many

land under crops. Some small
parcels. Rising part of the

hill on road clearing the property
as we walk with the village the

end of the slope are beginning
to open, & the preparation to look

as maximum like as possible with
all the cities & importance of the large

city. The Hill a low old mountain
building kept by a fence

used on the edge of an canyon
Arrive at 12 P.M. at station
Nevada

May 4. Jacksonville in Refuge
River Valley 6:15 - 6:30. 1410'

found in the Bridge. River R.
valley, quartz aggregate, chert
& pelitic rocks mixed -

Accounting from of Victoria

St. M. N.E. dipping S. 20° W. at
high angle to ref. Same rocks

Seen at upper bridge, 2 m. up

the stream

Elevation of R. at bridge 900'

angles of about 15°. There
evidence, cause to low ~~is~~
wide flatland sur. valley (Cotton-
wood valley) which joins the
Plummit. Higher part of Newberry
valley, all volcanic, plain common
Road runs across Sio Kingdom
out part of N. boundary of Geopoma
This about 4500 feet high, + radius
descent made from summit -
stake on N base about 3000 feet.
The next narrow + steep - like on
west. Forks, + my sleep - occur
steeply within my reach + the
have being down, the 6 hours
about 2000 feet, securing to house

looking into appear in higher
part of hills. (see note ?)

Yicko a little (in City) with
all the same spaces as larger place
a reproduction of the most usual
extremely hard character, seldom

a more than a more nearly char-
acter has been my paying of the
true has more not carried out

They look about.

Coasting of Pleasant R.

+ some miles before chart
quantities like rock water

than added. Sketch NW-53

on about a mile ~~out~~ outside

by way with my little sketches

Sketch of section. Cretaceous

with ammonites. Dip. N. or

divide lower the nut pine, +
notice increase of *Sargassum* in
+ cedar? *P. pendulosa* continues
abundant + now most common
tree.
Yuka is 4 Bar. 2530' above
sea level.
old place) may have been carried
on ultimately about Yuka + seems
still to be in place. The bed rocks
appear to be a dark chloritic
shale interbedded with great quantities
of quartz in thin layers, + in places
almost completely silicified.
superficial soil in places almost
entirely quartz. more massive

Shukla Valley W. side 14 m.
 from Yaska Col. 9 am. were
 mounted + wide bench of detritus
 sat. 250' above valley bottom
 which 2525' above sea
 level than 2775'
 on Ewing Sh. Shukla Valley at Butte
 gradient descending + at Butte,
 when we passed, at the head of the
 wide part of the Shukla Valley, then
 this down to Yaska river, then
 at noon. Beautiful view from
 level Shukla but night mostly
 + then in going down the valley,
 upper part of valley, near Butte
 wide, but - with many peaks.

May 3.

Bute station 6:45 am.

2730

Bute. Show very well x

Bute pebbles country continues

but gradually declining northward

surface pebbles stretching to

Shore & also northwards to the

range the heavy snow somewhat

like broken clay but shows sand

more angular than usual &

no striations seen. Also little

mixed in character makes

country - younger -

Sacramento, which the following
for many miles. Beautiful
scenery so climb along the river
leads to best distant views of
Shasta up the valley, on every
side. We climbed up the quartz-
shale (on 3000') on a plateau
stretching round Mt. Shasta
at Shasta, the opportunity
quite a "Shasta".
Many beautiful flowers met
them in the "Sweet
cutting patches with water
here & there

Stauterrey Vale, part of

Pt Shasta 245-Ann. (May 3)

B = 3250' a high plateau
with fine heavy timber.

Strong red clay at a rather low
level along a creek & my
hill road, but with enough
iron except in occasional
spots, with silver mountains

packed & my mud broken into
my steep side hills covered with

scattered timber & scrub, not

soil, from the Sacramento

by ripe / very part of the
Reading, then covered the Pitt

& finally the west branch of the

May 2

is at - Reading 6 am. 600'

Country of Sacramento R. very

about one mile beyond 530'

Broken flat on plateau. Green

land of country beyond Sacramento

R. Terrace with rocky hills

partially 760'

1250' flat - much lower on

large levelled by formation

almost - glacial aspect. Border

gray porphyritic? resting on

thin bedded contact of at

country on - bands of

Sacramento R about 100 feet

above water level 105 am.

Called the Isatte Mountains
appear on the left side makes
off. Singular absence of rounding
which glacial or other fact opening.
Eggs form. Siliceous waste.
In some spots seem often forming
puncta. Layered thickly extend
with brachi-like masses, which
however may very probably show
as numerous & a little exposure
of granite. All surface deposits
in some places of coarse rolling
fragments of granitic rocks almost
exclusively.

Left - Rowville purchase at
to Run for Railway. Checked
Luggage by check & receipt
had that got near ticket &
Luggage at the railroad. Suffer
& telegraphed to Reading for seat
in stage.

Strolling gentleman one interesting
& conversation with man, left
pleased with the service seemed
improving than on the night we were
arrived somewhat of the road rough
the west. Counting on the day but
many fine beds of granite seen
in the lower mountains. Suffered
& purchased some of them

walk them. A good part of the
make preparation with the
garden must be set off in
matters, & when the
non-attendant to the
general desire to be
are a portion of the
gets. The character
more and see the
in any other light than a
surrounds perfected in them
by the whole.

Salt may find its way
in various quantities
& packed in bottles
Blue Carbon State, also
in other places as for
at least as far as that

decide I wait here in the train
of the train. Read papers, get
some dinner, see a number of
Chinamen waiting opposite to the
same train, pointed when by a
collected for the annual \$100
school tax. Great teacher's meeting
understanding among the Chinamen
the finding of better escape, the
advantages shown with them after
getting receipts for the paymaster.
Then having no receipt to
show for last year, here they
\$2.00, so that is understood
nevertheless, that the school
always carry former receipts

slide down has occurred, but
seems the park like broken
steps a part. hills of the same
are beautiful, green & dotted
with bright flowers, many
kinds, remarkably different
from their midsummer aspect.
Good breakfast in 95c at
Café, with fine view of
Cove at the garden at 9.45
& often several Adams F. boarding
party strikes traps & catches
myself in the waiting room.
Found no Fair game birds
Van Manville the 21st & the
one new coming & mixed, show
& will be an accumulation.

about dark & the light
climbing up steep grades again toward
the Sierra, kind & direct though as
excessive heat. The summit
efforts of trailing clouds away
the still snows that summit at the
sides of the valley, but no progress
continuing.

Amongst. Early enough, the hour
morning through unbroken
summits about the summit of the
Sierra, & the beginning of the
downward to the plains by steep
grades & remarkably abrupt curves
some snow about the summit but
little or none beyond it & on the

in some cases better
subsequently.

They have sections of almost
the entire series present, with
of these conglomerates
in the lower part of the
Bertha slide. Rocks mainly
edge of the Eskom. Like the
partly near Central part.
see Maydun's reports to.

Open 50. Running down the
dip, Humberfeldt Valley all
day, though with its spring
ground it now looks broken
than when seen before. Crossed
the bank of the Humberfeldt just

rocks when the quartz is
collected - has been
most frequent. Since well bedded
layers alternating with rough
coarse conglomerates in which
fragments of thin shales and
chert are included, all in
a red, argillaceous matrix
in the brecciated clay. The shales
sub-argillaceous in some cases,
but mostly more or less
rounded but with general
pebbled forms. The remaining
conglomerate might not improbably
be of the same origin. Not a trace
of quartzite.

of the main moving from the
nearly edge of the face &
do appearing in the distance
across it.

The ^{partial} ~~un~~ ~~con~~ ~~tinu~~ ~~ous~~ ~~is~~
Echo Lake seen ^{partly} ~~partly~~ ~~partly~~ ~~partly~~ ~~partly~~ ~~partly~~

glacial origin & that not

necessarily implying a glacial
period or probably due to the

fact, making the supposition

of migrating high seas -

& glacial level near to the

with water in which the lake

might float to account for

them. General level of lake with

that position continues

weathering found in mountains

which are still in great part
covered with snow, present
a remarkable striking picture
as you drop a scatterer but
flourishing looking team, with
some fine buildings. After
getting supper & changing my
to the C.P.R., stand out with
part from the long after dark
looking at the gradually darkening
landscape, the lake & the winter
mountains across it. After
some time a great breeze brought
with 'sage' & occasional
saw like whiffs from the lake.
Such a fine picture by the lake

westward toward Salt Lake, the
stream runs in more confined
by its narrow walls lower than
side to side, forming paths &
irregular shapes of water gleaming
like silver in the afternoon sun.
The wide valley covered with
tender sage & here & there a
yellow-green cultivated field.
Blue mountains in the
distance. The mountains
certainly deserve credit for their
industry in having converted a
wilderness into an extensive
green watering place. The first
cultivated bottom of the valley among
up to the base of the Wasatch
mountains near Ogden.

April 29. Dinner at Zimmerman
(Lyonnais & not what we had)

After dinner down through the
Magnificent scenery of the Cañon
& the Upper Cañon the repetition

constantly showing signs of water
advance till on reaching the valley

of Salt Lake had also well

advanced, some wild flowers in

them & peard & other fruit trees

looked with pleasure & scanning the

air. Being Sunday the museum

closed in that but an enjoyable

holiday. On emerging from the

cañon of the Upper a ~~fine~~ beautiful

view presents itself, looking

Notes in cuttings about Stenon
found near actual 'she never
saw a rock before but what
she could get:

Sitting fire nearly black at night,
- light - in spreading, Chyenne
granite fragments like those before

what there about angular
& jagged: same material seen

There looked a considerable
way down on the west, on the
Sawtooth Range. That is.

Single Pole about 150 miles

from the center. Analogous with

that observed by Dawson on the
Panjoa of Polygona.

Sketch in the track. Beyond
Chyenne out to Fair Spring
east with the engine, the front
one helped up with snow. Repaired
considerable depth head and to.
Worked on a siding some time
till the additional engines to strain
though obtained. Attended the
though without difficulty up to
Shannon, beyond which comparatively
little snow. Got about an hour &
a half altogether. Supper late
at Rock Lake.

Opaval Island.

Soft man make banks of

hard low drift - cut out star

Some reddish color patterns

apparent to an extent probably

have other tracks of drift deposits,

possibly are recent alluvium.

At Sedge Pete Creek (Nunavut)

of 281 ft drift - granite

last rounded fragments of

reddish granite (from Shuman

div de ?) in great abundance.

Opavice. In approaching Chapman

Swan stormo gullard several

full thickly. Chapman described locality

with some in this measure

Op 27. Arrive at Trenché 13:15

about 10 am. in a descending

skirmish of rain & wind. Great

bridge hanger coils & open

some day arrive at Oncha,

under tent & struggle for position

& in getting baggage rechecked.

Secure tent in Can Pochungra

in which morning taken for the

also accommodated. Seen after

becoming much rain time to

snow & sled. ground more

in low level with snow & a

high turbulent wind. Strong

about 11 am. clearing, snow

left tent. Supper at

Unquestionably in diphrasis, or subsequent
 diminution. In the latter sense the
 surface much more fully exhibiting
 that apparently conforming to drainage
 ridges, & many irregularly, but
 entirely to one & the same. The drift-
 material here & not far ^{from} ^{the} ^{same}
 were necessarily less & occasional
 showing in cuttings horizontal
 stratification. Some layers quartz
 pale yellowish. apparently show
 decided vertical large blocks
 due to material made
 between Red Rocks, in last of
 days quartz the place lies.
 (See also in Journal)

Given a. wild dromas: 92 in. known.

Butt. In. Carrying motion. Allans

with much slony & hudding drift.

(Particularly near Munda sta. seen)

Some white & partially of limestone

of distinct, at least - in great part.

General color yellow - white &

yellowish. Some greenish yellow

would seem to imply ice action, & the

deposit may represent the border

clay or upper part of modified drift.

Dr. W. Allans near the Munda sta.

drift material from west side -

quartz surface irregularly

hit fairly. Cannot enter 2 original

April 25 Arrived at Toronto

about in time Apr-12-15 - but that

not get to dinner at Stratford the

about 5-5:30 - got to Stratford through

Customs at Port Huron without

difficulty, opening only one piece!

A sharp afternoon landed in

for the night. Much ice remaining

down the Detroit-River

April 26 Chicago 9 am. x base

again on C-13 & R, at 10.15.

a fine & warm day with

just enough breeze to keep the first

from being oppressive. Hydrata

decidedly in advance of the coming

Chicago. Two beginning others

Apr 24. 1877

From Montreal 10 Am. Fran.
for Victoria B.C.
Gave for Survey \$250

Call check up on way

for money on loan

Draw from Western Bank 40.00

351.50

Remittance for 4.50

Call .50

191.25

Ticket - 135.25

140.25

Distances

Riding on main

correctly Reading to

Reading by steps

Reading to Oatland by

Col & Oga R.

Partland to Kelama

by Ogm. Stm. Maryglen

Co

Kelama to Tacoma

by N.P.R.

Tacoma to Seattle Sta.

50

105

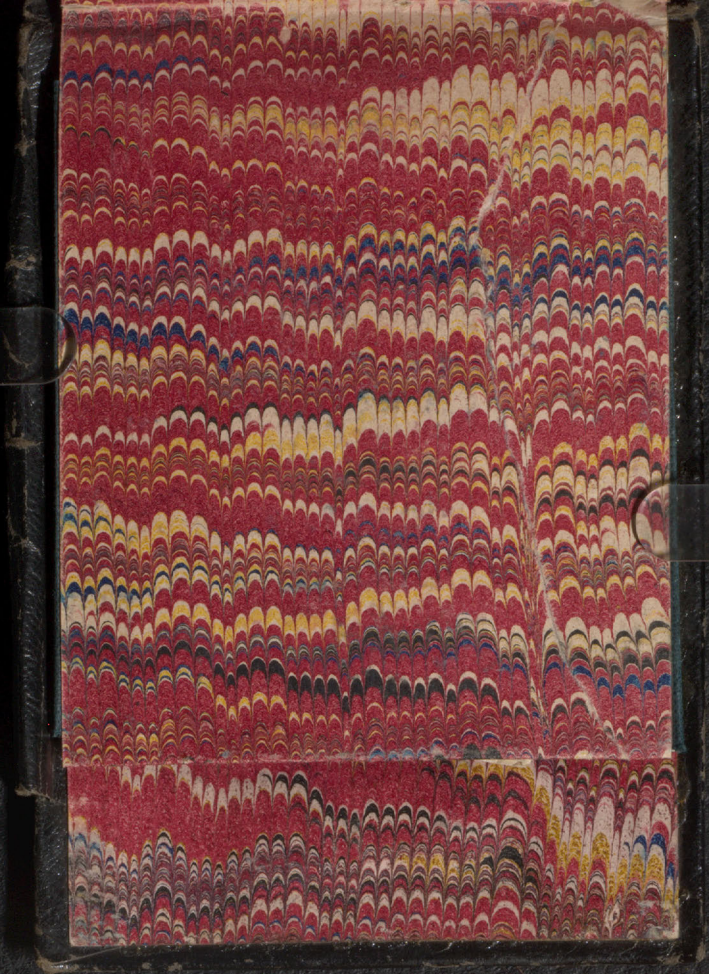
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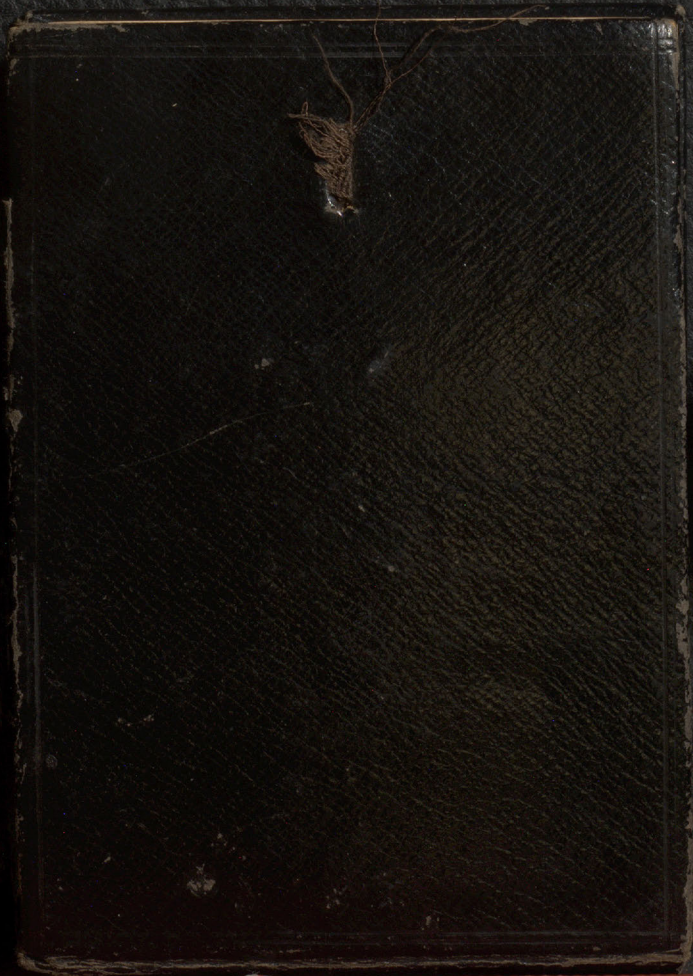
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LL81

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4425
051







34

Mr. Pattison.

11. Queen Victoria Street. City.
and Hampstead.



Robert Thont.

Wm Allen's
Open



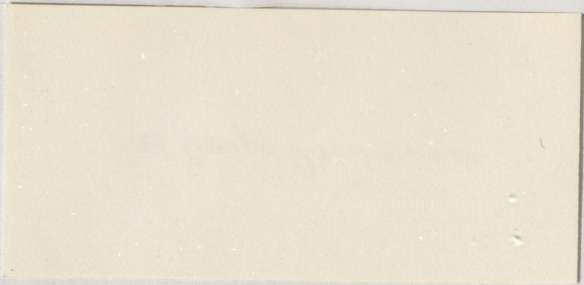
34

Mr. J. Bourne.

Abberley.
Wallington.
Surrey.



Mr George M. Dawson



Mr George M. Dawson



Mr George M. Dawson



Mr George M. Dawson



Mr George M. Dawson



Mr George M. Dawson



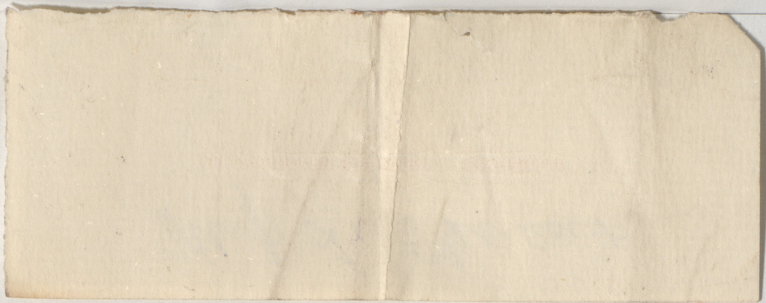
Sir Charles Tupper,

103 Crown St. B. C.



Miss Le Stewen

13, RANDOLPH CRESCENT. EDINBURGH.



Mr George M. Dawson

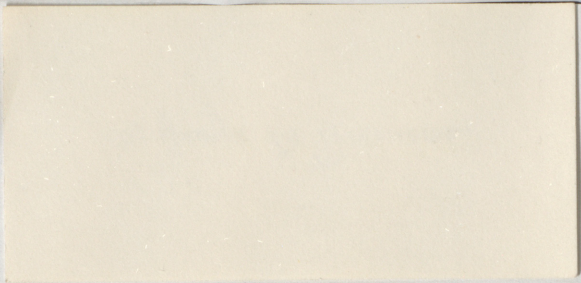
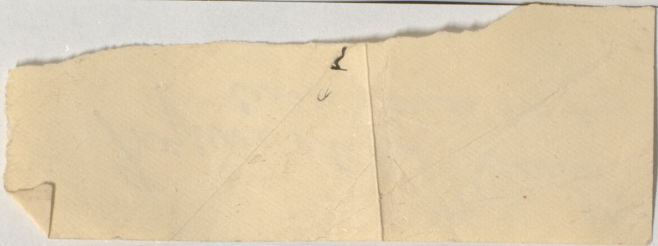


Figure about 745
Crown Sands French



Mr. Pattison.

11. Queen Victoria Street, City.
and Hampstead.

Chancellor Dawson.

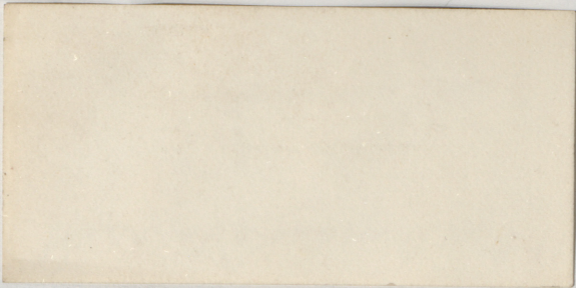
To introduce my friend Mr
Charles Mitchell (B. Esq.) of
the English bar.

Principal Dawson C. M. S. & Co.

Mr. John Hudson,

Cannon St. Hotel

~~Clyde House
Red Hill,
Surrey.~~



Mr D. Scott & Moncrieff

24. George Square.

wrote W.
Dawson kindly
Call at 3 o'clock
today, or tomorrow
forenoon on
W^m. Scott Mancini
S. Campbell's
daughter.

D. J. M.

M^r. Robert Kidston.

Stirling -
Scotland -



Memo Adolphe & Dawson

Nov 30 to Dec 5 —

Cooks Agency, 15 Place du Havre, Paris

Dec. 5 to Dec 12 —

~~Cooks Agency, H~~
Hotel d'Europe, Florence

Dec 12 to Dec 19 —

Cooks Agency, I. B. Piazza de Spagna
Rome

Dec 19 to Dec 27 —

Cooks Agency, Simons Art gallery
Largo Colonna, Naples

After Dec 27, —
Shepherd's Hotel Cairo

Attorney at Law

Leaves

to be 2
at 10
15
Hotel

Dec 12

at 11

Dec 19

at 12

at 13

at 14

Address

Dept of Justice

Dear Sir

Respectfully

at 15

at 16

Mr. Geo. Rich^d. Byrom.

Paper to Pauson
June



Sold over 69.22
divd - 4.22

Rec'd ~~~~~ 65.00

Sold load 40.

Prem 45

\$ 155.45

W. Weir





Handwritten text, likely bleed-through from the reverse side of the paper. The text is mirrored and includes the words "NEW YORK" and "M. WEISS & CO." arranged in a circular pattern, matching the stamp on the left.

Handwritten text on the right side of the paper, including the name "Dr. M. Weiss" and other illegible words. The text is written in a cursive or semi-cursive style.



MISS

Reli

.....

Or

PUE

In conne

C.

Dr Hunt

Apulhas Buas Gaeus

By Lucine Gaeus

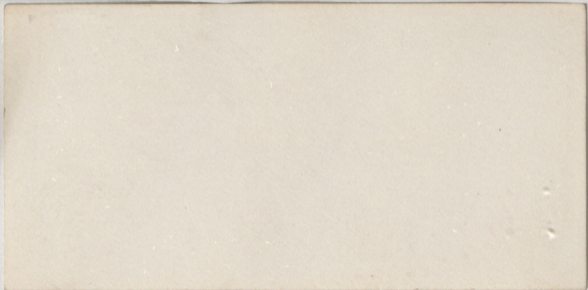
Mr. John Evans.

Nash Mills.
Hemel Hempsted.

Customs on 12-30 to
King's Langley on
Saturday - May 3^d -

J. Webster

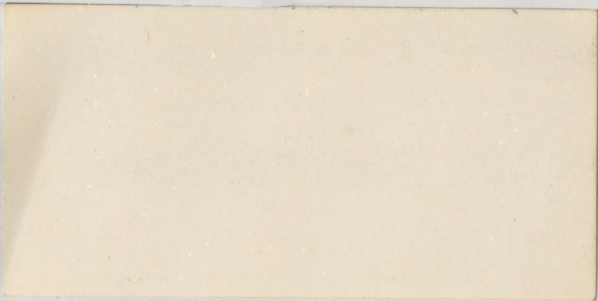
10 West Newington Terrace



Mr. William Horton Ellis.

844 Sherbrooke Street

Hartwell House Exeter



ences.

Overland Travel.

The following list of overland passengers to arrive in this city to-night is specially telegraphed to the CHRONICLE: S. M. Hall, San Francisco; Chas. Fredrick, Toledo, O.; Mrs. J. J. Shepard, Gold Hill, Nev.; Mrs. Lawrence, Washington, D. C.; Mrs. Clark, New Orleans; Mrs. J. D. Bethume, do; John King, wife and two children, Michigan; J. W. Bigelow, Massachusetts; G. M. Dawson, Montreal, Canada; Marshall Brown, Pittsburg; N. W. Trail, Sydney; Wm. Reston, Wilmington, N. C.; F. C. Butler, Newark; H. A. Strong, Rochester, N. Y.; E. T. Curtis, do; J. W. Gaskill and wife, Philadelphia; Miss N. C. Booth, East Orange, N. J.; Miss E. Watson, Philadelphia; Miss J. De la Montagnie, Oakland; Mrs. M. De la Montagnie, do; Master De la Montagnie, do; Mrs. L. B. Cuttar, Wilmington, N. C.; W. B. Benedict, Missouri; Mrs. J. L. Loveland and daughter, Boston; Miss Kittie Dunphy, Auburn, Cal.; Jno. W. Wooldey, New York; A. W. Head, New Jersey; Thos. Ryan, New York; J. Becker and wife, do; D. McVicker, Canada; H. L. Springer, Chicago; E. A. Root, Monmouth, Ill.; A. Smith, Montreal; A. Springer, Chicago; S. Bernstein, do; P. N. Springer, do; Mrs. Taggart, Toronto; Mrs. Freth, do; M. J. Burke, New York; A. H. Douglass, wife and three children, Chicago; Miss Fannie Grover, Boston; Mrs. E. Gould, Michigan; Mrs. Pierce, Ogden, Utah; Miss Brisbon, St. Louis; O. N. Hall, Maryland.

Murdered for Money.

SANTA CRUZ, April 30.—Between the hours of 8 and 9 on Saturday evening Henry [redacted] 62 years who has a wife

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Connecting with Steamers to SITKA and PUGET SOUND and O. and C. R. R. Co., and Oregon and C. R. R. Co., through Willamette, Umpqua and Rogue River Valleys, Oregon.

TICKETS TO ALL POINTS ON THE O. and C. R. R. SOLD AT REDUCED RATES.

Sailing days in May, 4, 9, 14, 19, 24, 29, at 10 o'clock A. M. K. VAN OPERENDORP, Agent, ml-tf 210 Battery street.

PACIFIC COAST STEAMSHIP COMPANY.

Commencing April 1, 1877.

STEAMERS OF THIS COMPANY WILL SAIL from Broadway-street wharf for LOS ANGELES, SANTA BARBARA, SANTA CRUZ, SAN DIEGO, SAN LUIS OBISPO, and other Northern and Southern Coast ports as follows :

ROUTE.

- No. 1. MONTEREY.....Every Monday, at 4 P. M
- No. 2. CONSTANTINE, Every Tuesday, at 9 A. M
- No. 6. MONTEREY.....Every Saturday, at 9 A. M
- No. 5. ORIZABAFriday, April 27, at 10 A. M
- No. 3. LOS ANGELES, Sun., April 29, at 9 A. M
- No. 5. ANCON.....Tuesday, May 1, at 10 A. M
- No. 4. SENATOR.....Friday, May 4, at 10 A. M
- No. 5. ORIZABA.....Monday, May 7, at 10 A. M
- No. 3. LOS ANGELES, W'nesd'y, May 9, at 9 A. M
- No. 5. ANCON.....Friday, May 11, at 10 A. M
- No. 4. SENATOR, Wednesday, May 16, at 10 A. M
- No. 5. ORIZABA, Saturday, May 19, at 10 A. M
- No. 3. LOS ANGELES, Mond'y, May 21, at 9 A. M
- No. 5. ANCON, Wednesday, May 23, at 10 A. M
- No. 4. SENATOR, Saturday, May 26, at 10 A. M
- No. 5. ORIZABA, Tuesday, May 29, at 10 A. M
- No. 3. LOS ANGELES, Th'sday, May 31, at 9 A. M
- No. 5. ANCON.....Saturday, June 2, at 10 A. M

For movement of freight boats see Alta or Guide.

Ports at which above Steamers Call.

Route No. 1 embraces Point Arena

From
 A. M., 6
 From
 *Alan

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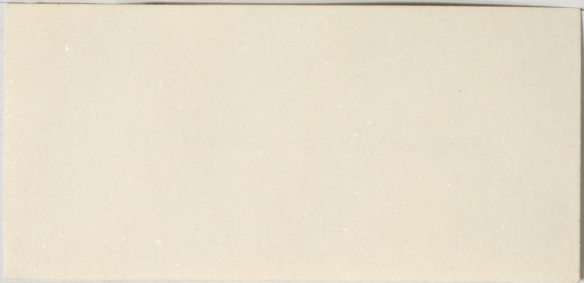
NORT
SUMME

Mr George M. Dawson



Mr George M. Dawson

Mr George M. Dawson



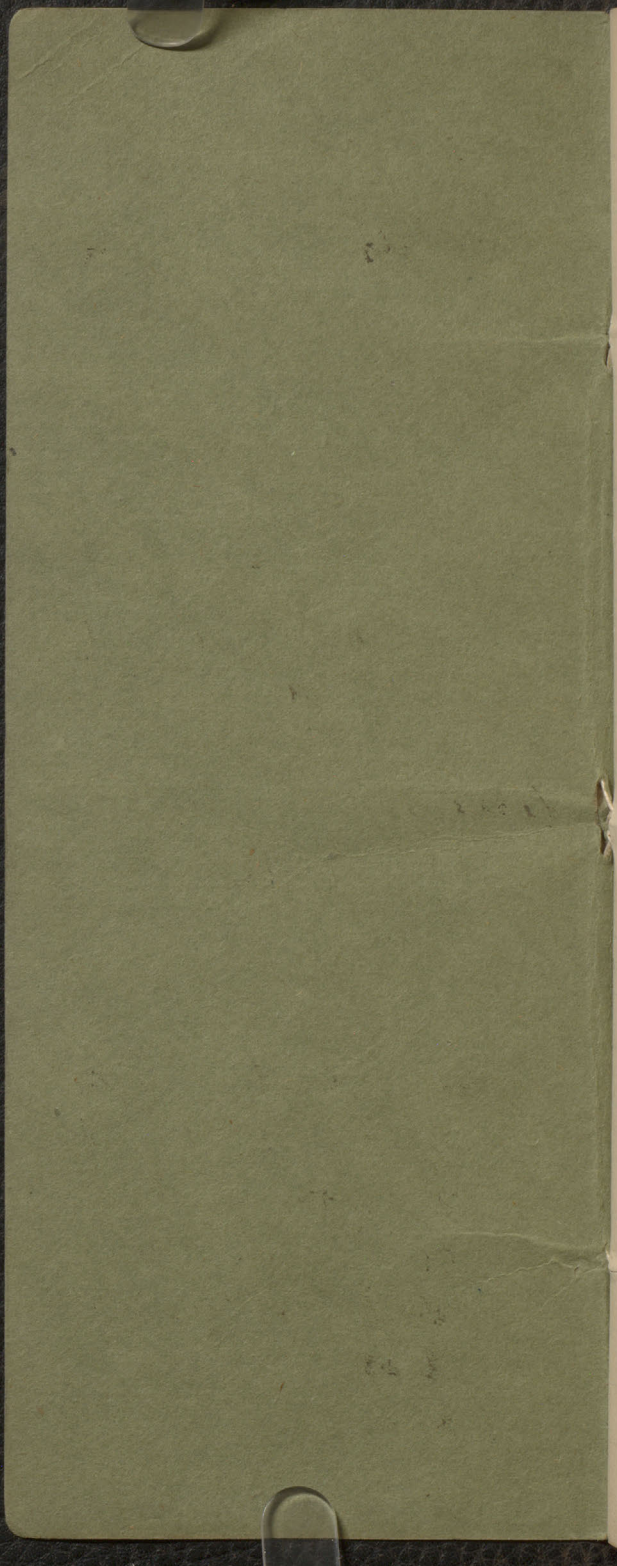
Mr George M. Dawson



Mrs George M. Dawson



Alona Bay
Tennessee



Murray Bay

Heights of Terrace
Murray Bay side

Dr Cap a l cliff side

If any new shell
deposits exposed
in clay

Terrace on Road
to Petite Lac
How high & of
contains shells

Outlet of Petite Lac
It cut through
a moraine
of Terrace of
Duff a through
rock

In former case is it

cut down by
the rock

How high does
the breeder
deposit extend
in hill above
Petite Lac
and is there
any terrace
above that
level.

Is the rock at
Petite Lac
Saurenton
or does the
Saurenton be
extend up
so far.

Any new fossils
from Saurenton
at Murray Bay?

Murray Bay.

Heights of Post-pliocene Terraces

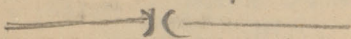
Aneroid Measurements

Aug 13, 1877.

Reading	Hour	Rise or Fall per Hour	Reduced Reading	Diff:	Height.	
29.85	7.00 ^{6 AM}					
		0.01 R				
29.86	8.00	?				
29.92	8.45					
29.95	8.48	↑	29.95	0	0	
29.93	8.50	Rise at rate of 0.04 per hour or 0.01 per 15 min.	29.93	0.02	180	
29.91	8.53		29.91	0.045	41	
29.88	8.56		29.88	0.075	69	
29.96	9.03		↓			

Levels

along farm line inland from Church.



(At Hotel)

" "

" "

At mark of H.W. Spring tides opp: Lorne House

On Road near Hotels . Terrace N^o 2.

Foot of Terrace N^o 3

Top of Terrace N^o 4.

{ These two terraces here
form a single terrace
of sand & gravel.
Reddy's + all limonite
are on Terrace N^o 4. }

At same point on beach H.W. S.T.

Reading	Hour A.M.	Rise or Fall per Hour	Reduced Reading	Diff	Height
30.01	9 ^h .55	↑	30.01	0	0
29.00	9 ^h .57	Fall of 0.03 per hour.	30.00	0.01	9 ^h
29.975	10 ^h .00		29.975	0.035	32
29.96	10.05		29.96	0.05	45
29.84	10.25		29.855	0.155	141
29.84	10.30		29.855	0.155	141
29.61	10.45		29.63	0.38	345
29.81	11.10		29.85	0.16	145
29.94	11.20		29.98	0.03	?
29.92	11.22		29.96	0.05	?
29.965	11.25		↓	30.01	0
29.96	11.35				

Note; * The difference between the last two readings (accepting the last) would suppose a sudden admissible for the day in question. From 10 AM a decreasing rate 29.90; 9.30 AM, 29.90;

— Levels of Terraces —

— Murray Bay Side —

(Along line marked "Second"
on plan.)

{ On beach past fishery point at mark of
High Water Spring tides.

On Terrace N^o 1. (Below Road)

On Terrace N^o 2. on road, at Le Points.

(N^o 2. is the terrace on which the
Hotels & houses stand.)

On Terrace N^o 3. Begins behind Hotels and
continues about 1/4 mile beyond Le Points.

Terrace N^o 4 Behind Le-points

" " " Near Lord Cecil's.

Terrace N^o 5 High Sand Terrace

Terrace N^o 4 At ~~Lord Cecil's~~
D. Blackburn's.

(Just below Sand Terrace)

Terrace N^o 3 N.W. of Le-points (abt. 200^{ft})

Terrace N^o 2 at Le-points.

On beach at same point H.W.S.T

(At Hotel) (Cancelled Reading)

should be 0.03 so that one must be erroneous.
rise of 0.025 in 10 minutes which is in
the fall seems to have been regular and at
giving the rate of 0.006 for the afternoon.



First line

Deposits

Terrace No 3

Terrace No 4

clay hills

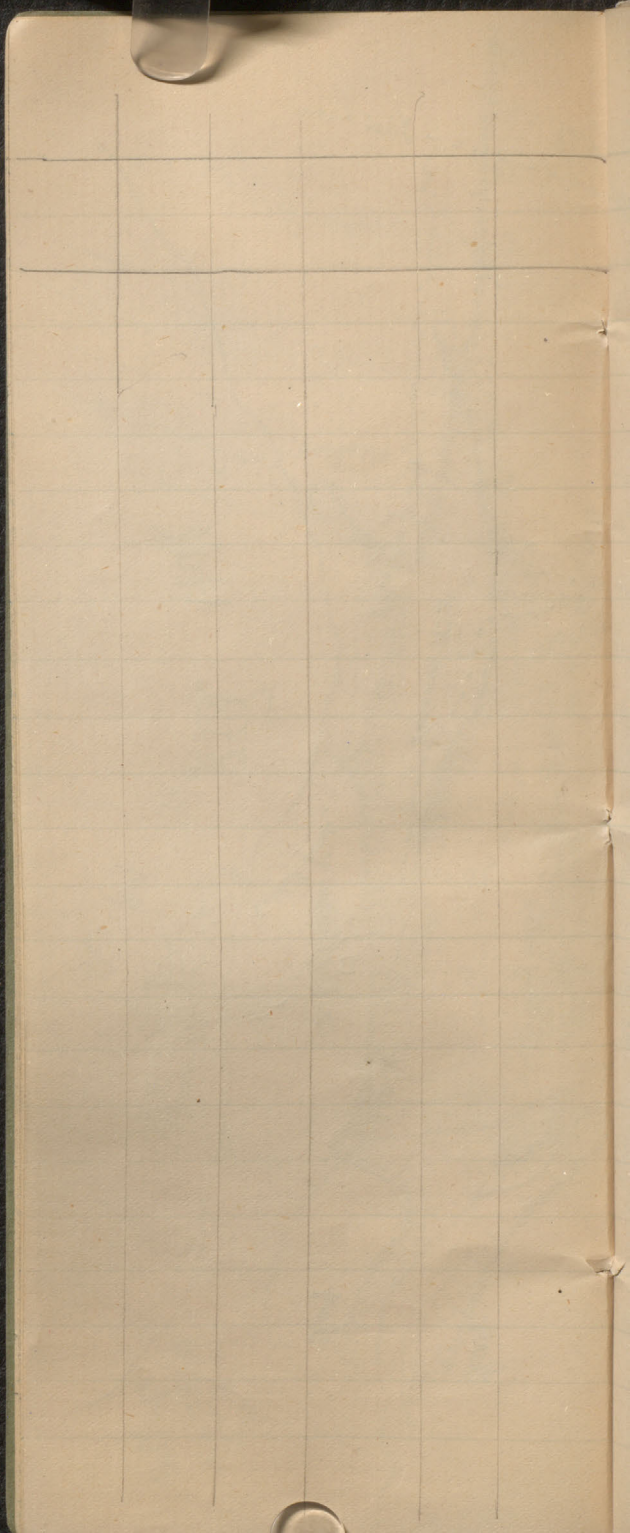
clay

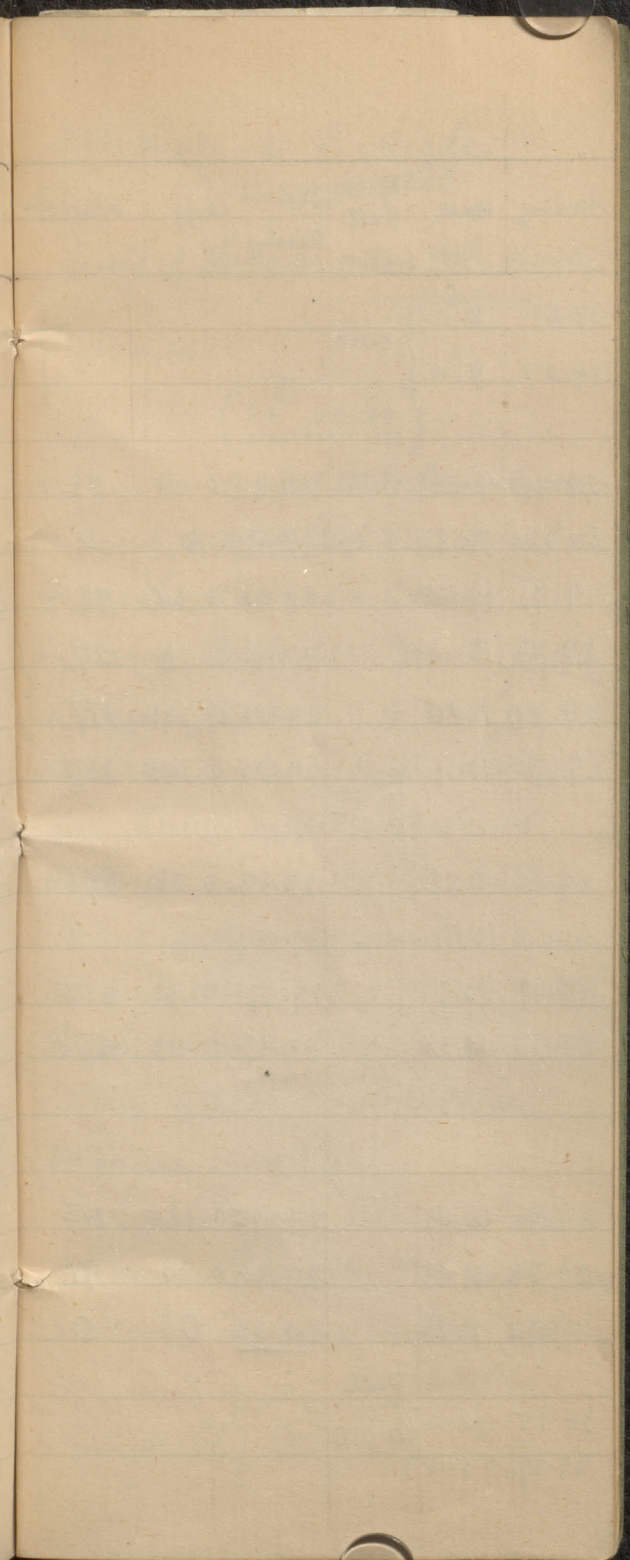
clay

D. Blackland

Wooded Hill

Terrace No 5





Aug 14, 1877.

Reading	Hour A.M.	Rise or Fall per Hour	Reduced Reading	Diff.	Height
29.87	8 ^h 00	} 0.00			
29.87	9 ^h 00				
29.91	9.50		29.91	0.08	73
30.00	9.53		<u>30.00</u>	0	0
29.91	9.55		29.91	0.08	73
29.86	10.01		29.86	0.14	127
29.80	10.10		29.805	0.195	177
29.71	10.15	<u>Fall</u> 0.015	29.715	0.285	259
29.61	10.25		29.62	0.38	346
29.49	10.31		29.50	0.50	455
29.36	10.38		29.37	0.63	573
29.86	11.05		29.875	0.125	114
29.88	11.13		29.90	0.10	91
29.98	11.16		<u>30.00</u>	0	0
		<u>Fall</u>			
29.95	12.00	} 0.016			
29.87	5.15				

Cap à l'Aigle

Levels of Terraces near Col: Reves.

{ (At Hotel)

$$\left(\frac{91^{\text{ft.}}}{100} = 0.91 \right)$$

On terrace A (~~level of Col: Reves' House.~~)

On beach at mark of High Water Spring tides

On terrace A. (Sand & Gravel)

{ On terrace B (Sand & Gravel) Col. Reves

{ On terrace C. (Sand & Gravel)

On terrace D average level. A Clay
terrace capped with Sand.

On terrace E, at foot of high sand terrace

E. much cut away standing in Conical Hills (Sandy Clay)

On terrace F (Sand & gravel.) (= N^o 5)

{ Terraces at this level between this &
ridge of Cap à l'Aigle Hills.

{ On conical Sandy hill

Level of Col. Reves, on road, on terr: B

On road, Terrace A. (Same point as before)

On beach same point. H.W. S.T.

{ (At Hotel)

Aug 16, 77

Reading	Hour	Rise or Fall per Hour	Reduced Reading	Diff.	Height
29.86	Aug 15 10. P.M.	} Rise 0.004			
29.89	Aug 16 5. A.M.				
29.88	6.30	} Fall 0.006			
29.93	7.00	} Rise 0.10			
29.96	7.05	} Rise 0.09	29.96		0
29.96	7.30	}	29.95	0.01	9
29.91	7.45		29.89	0.07	64
29.91	7.50		} Rise 0.045	29.88	0.08
29.84	8.10	}	29.80	0.16	146
29.78	8.15		29.74	0.22	200
29.81	8.24		29.76	0.20	182
29.75	8.33	} Rise 0.03	29.695	0.265	241
29.38	8.50	}	29.315	0.645	587
			} Fall 0.036		
29.20	9.30	}	29.16	0.80	728
29.16	10.45		} Fall 0.032	29.16	0.80
29.06	11.05	}	29.07	0.89	810
28.41	11.55		} Fall 0.036	28.45	1.51

Levels

from

Murray Bay to Petit Lac

$$(91 \frac{ft}{mi} = 0.01)$$

At Hotel.

On beach opposite Lorne House H.W.S.T.

At end of M.B. Bridge abt. 10^{ft} above

On Clay terrace (a) abt. 1 mile from M.B. Vic

Terr. a. Clay, forming bank of River

Same terrace (a) (near Cross).

Terrace B. No shells. Fine clay.

Terr. (a?) (near Cross) (8.21 Xel Book)

Terrace B. (Same level as former terr. B.)

Terrace & clay capped with 10^{ft} sand.

A well-marked terrace, more distinct and continuous than others

Water-level, Petit Lac.

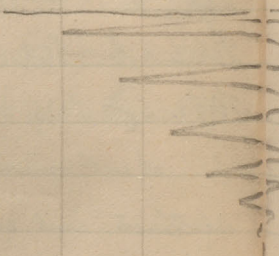
Water level Petit Lac

On top of Bridge (marked on map)

On Hill S of Petit Lac. Drift & boulders quite to top, and apparently higher on hills to the S.W.

Reading	Hour	Rise or Fall per Hour	Reduced Reading	Diff.	Height
---------	------	-----------------------	-----------------	-------	--------

			(29.96)		
		Fall 0.036			
29.28	12.30		29.31	0.65	5.91
		Rise 0.03			
29.70	12.45		29.75	0.21	1.91
		Rise 0.045			
29.91	1.35		29.95	0.01	9
		Fall 0.05			
29.86	2.00		29.93	0.03	27.



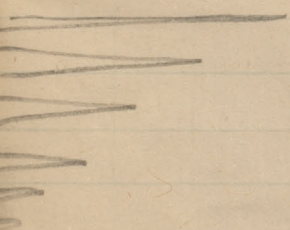
(H.W. S. T.)

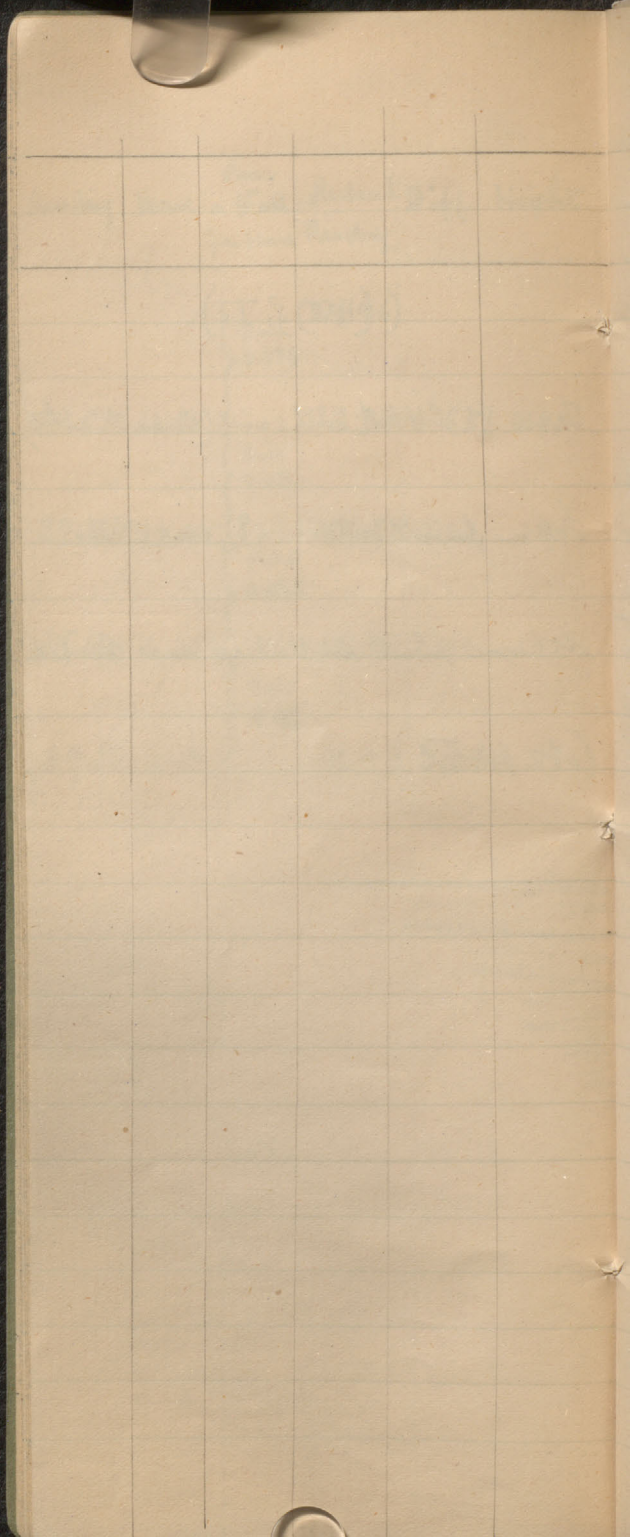
Terr: 8. Cobble with sand (Same P. 5. antip.)

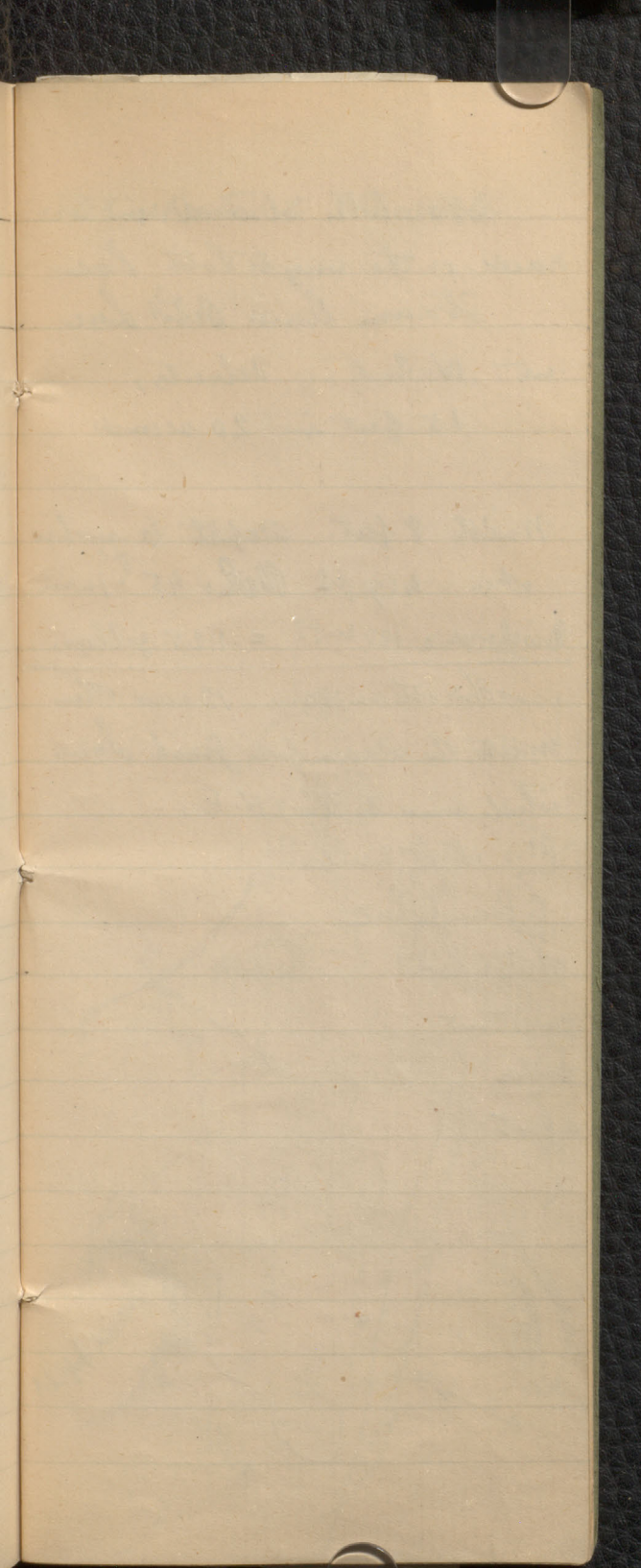
Same point on terr. (d?) near Cross.

At same point in Village near Bridge

(At Hotel)







No shells observed in terraces on the way to Petit Lac.

Stream under Petit Lac
at N. End. Velocity,
15 feet in 20 seconds

Width 8 feet. Depth 6 inches
Area = 48 sq. ft. Vel = 45 ^{ft} - per min.

Discharge = 180 cu. ft. = 1125 gallons.

This stream runs 12 acres then
meets the stream from Grand Lac
which runs to the N.E.

It is about 2 miles

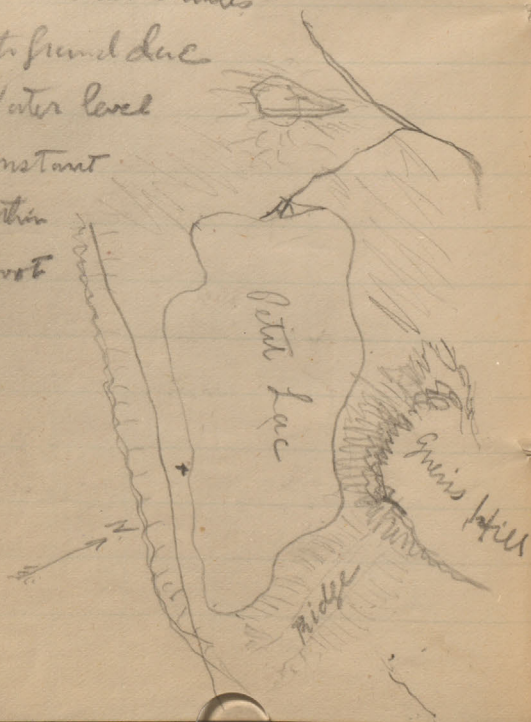
to Grand Lac

Water level

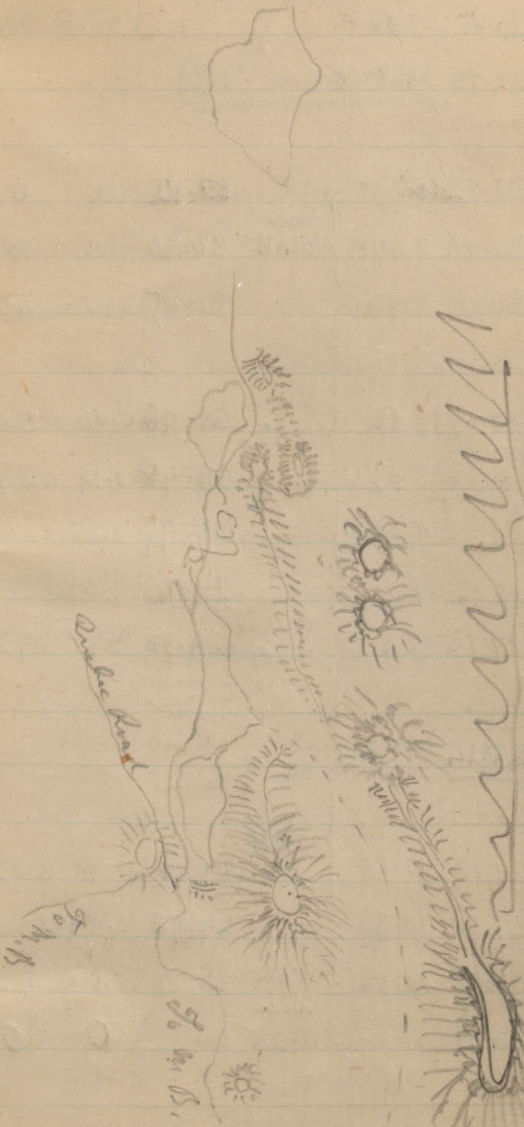
constant

within

a foot



28 aspents to the mile.



Reading	Hour	Rate of Rise or Fall per H.	Reduced Reading	Diff.	Height
---------	------	-----------------------------	-----------------	-------	--------

30.00 ^h 7.30

29.70 8.00

?

30.12 ^h 8.45

30.10 8.47 } Rise 0.08

30.12 0 0

30.08 8.50

30.07 0.05 45

30.07 8.52 } Rise 0.12

30.06 0.06 55

30.00 8.57

29.98 0.14 127

30.00 9.02

29.97 0.15 136

29.78 9.11

29.73 0.39 355

29.15 9.57 } Fall 0.05

29.14 0.98 892

29.14 Average

29.13 10.05 } Fall 0.05

29.14 0.98 892

29.70 10.38 } Rise 0.12

29.73 0.39 355

30.06 10.50 } Rise 0.08

30.07 0.05 45

30.11 10.52 } Rise 0.08

30.12 0 0

30.07 11.02

— Levels of Terraces —

Pointe - à - Pic

first part of

Along line marked "Second" on plan
and beyond

(At Hotel)

" " (91^{ft} = 0.10 inch)

Mark of High Water Spring Tides; Lepoint's beach
Terrace N^o 1. (Below Road)

On Road at Lepoint. Terrace N^o 2. but
seems rather above level of Hotels.

Terrace N^o 3. (Clay)

Terrace N^o 4 (Clay capped with 5th gravel)

" " " near Blackburn's.

Terrace N^o 5 { By clinometer sight, same
level as terrace F.

Terrace N^o 6 (Sand) Sand at same
level by clinometer on side of hill
to N.W. Terrace higher than ridge
on right bank of Murray River
Boulders & drift extend above it on
hill behind.

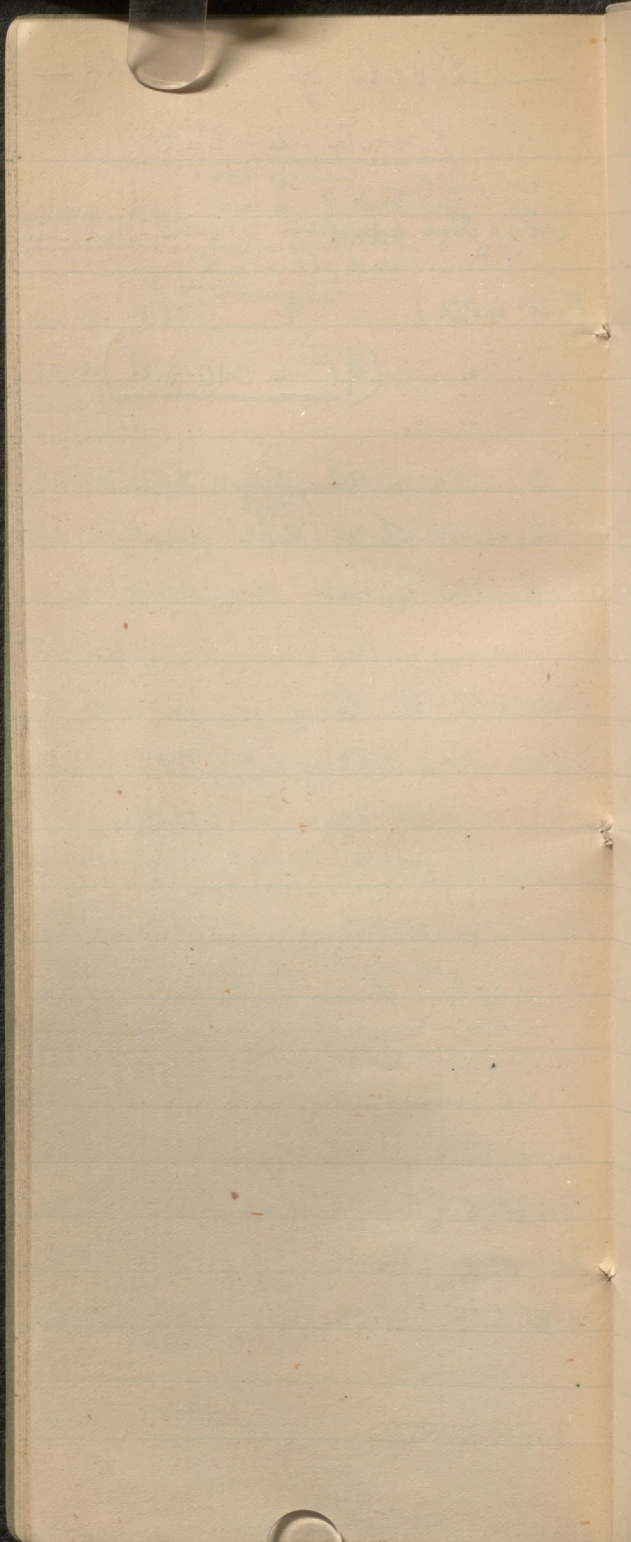
Terr. N^o 6 (Same point)

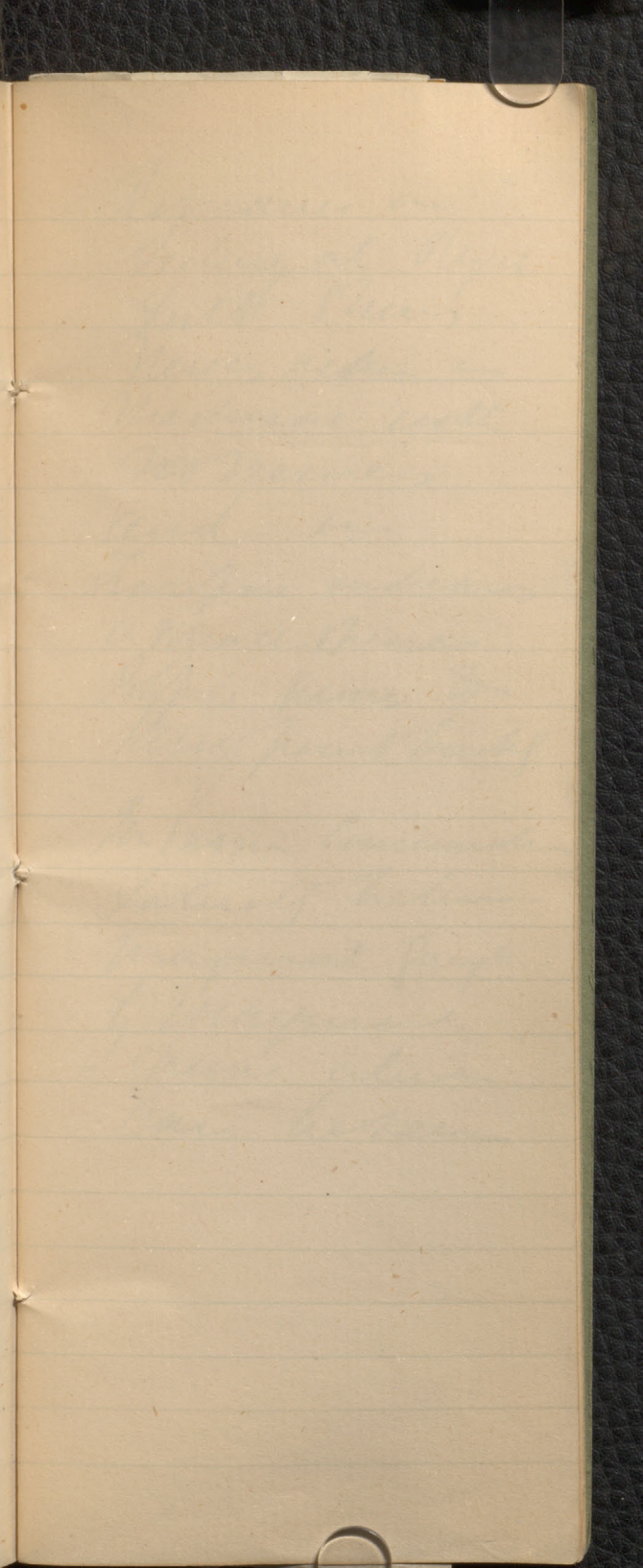
Terr. N^o 5 (Same point as before)

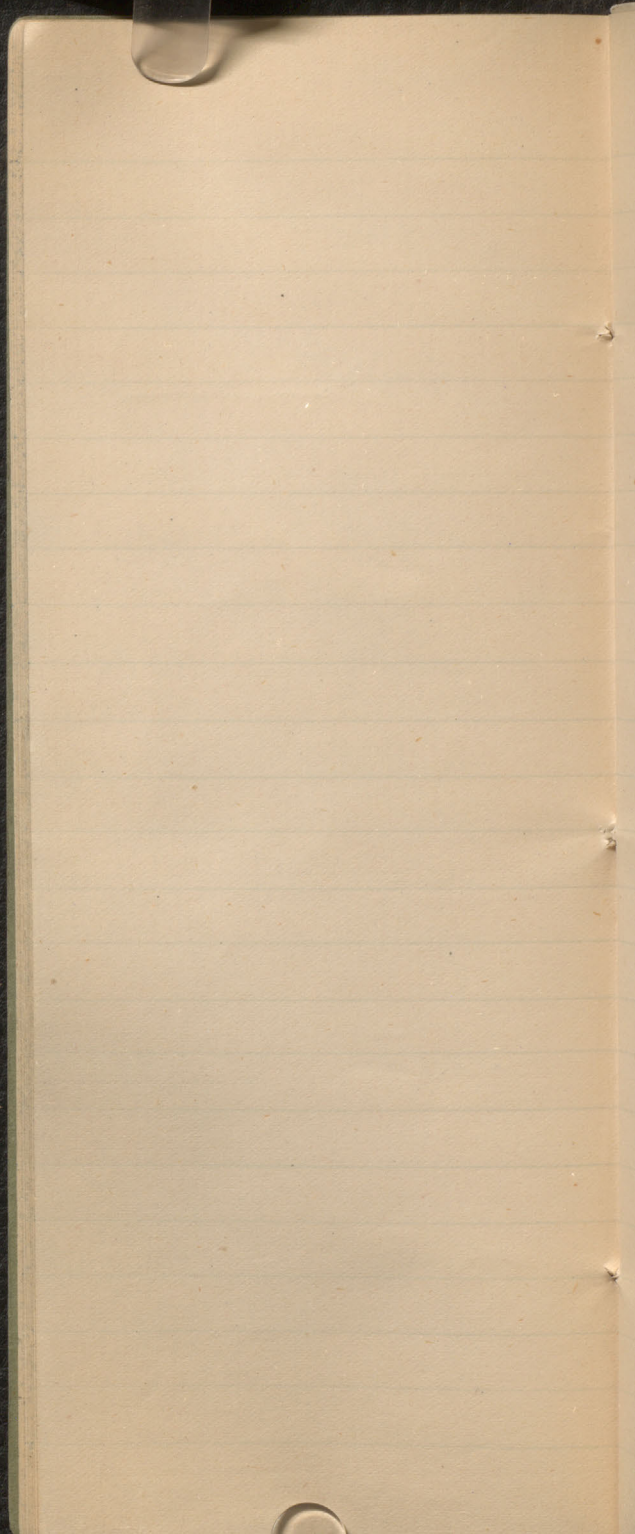
Terr. N^o 2 (" " " ")

H.W.S.T. (Same point as before)

(At Hotel)







Romanus in
Section at Nymus
Ymst shows
Nerve roots
Medusae with
no nerves
and in
Larva indicates
a small species
of the same to
very point touch
In form common
Saturday before
Mayoral feast
of Maymas
Nerve also
can be seen

[Faint, illegible handwriting on lined paper]

wa

Terraces observed by Mr
Richardson.

Blanc-Sablon, Labrador. N. side
Strait of Belle Isle.

Series of terraces with following heights
above the sea

64 feet. 81. 102. 120.

144. 164. 173. 183. 204

313. 337. 348. & 374 feet.

On W. Coast Newfoundland some
miles inland. 7 terraces, rising
in steps of 50 to 150 feet. Composed of
well rounded pieces of Potsdam Sandstone,
which is the rock of the country.

Lowest terrace by barometer 500 feet
highest 1225 feet, above sea
level.

But which
52 of
J. M. Dawson

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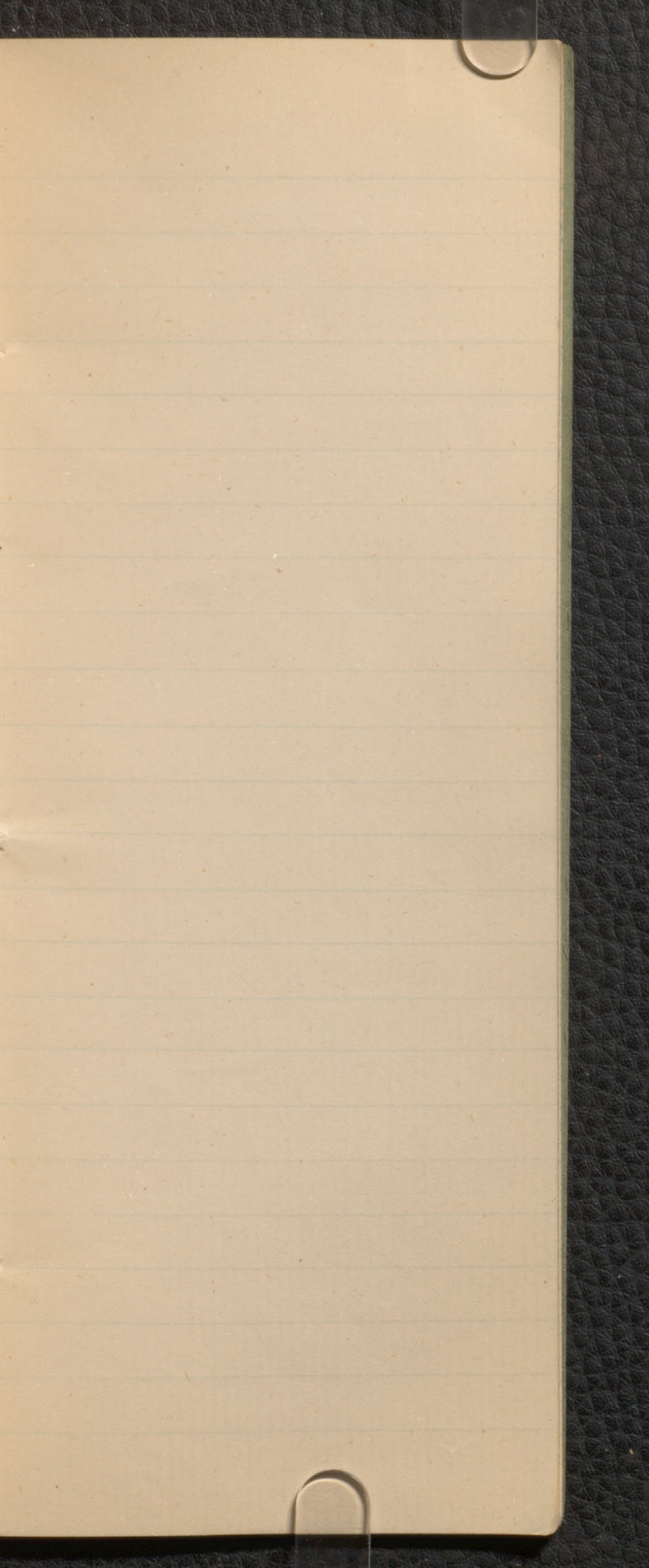
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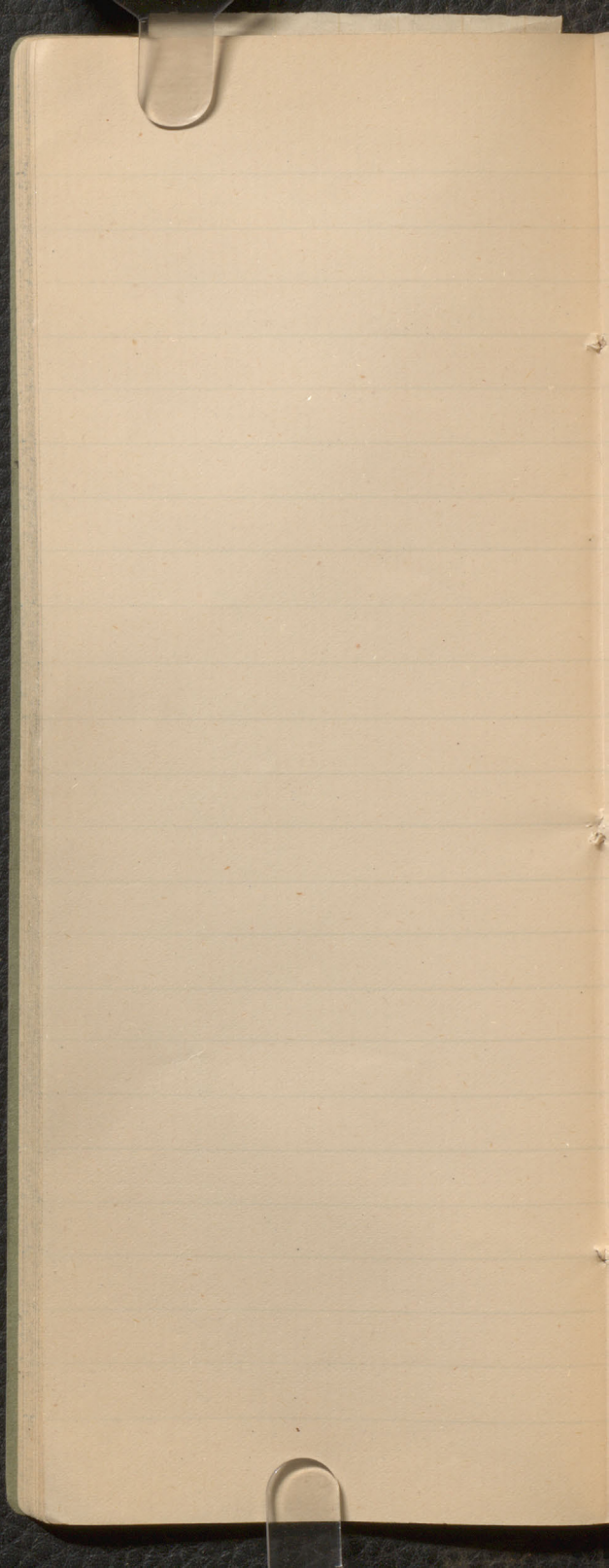
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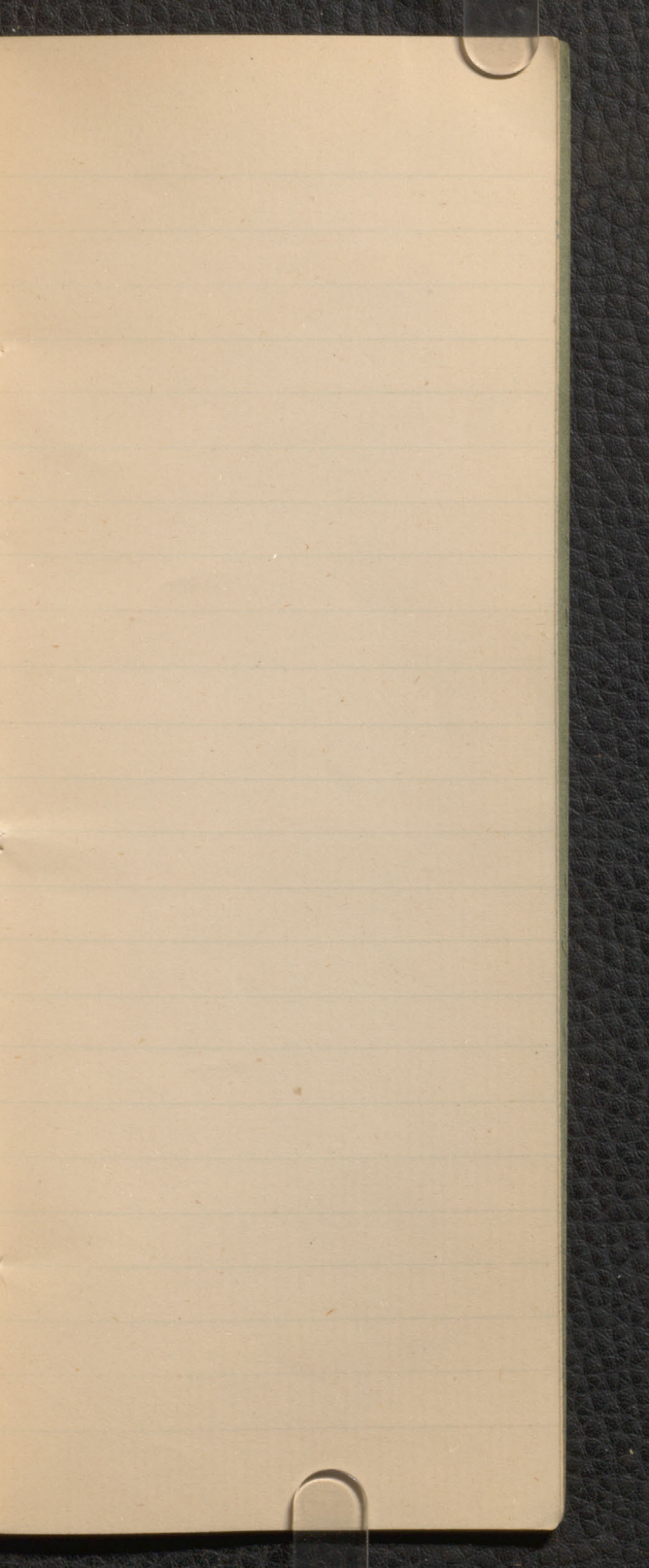


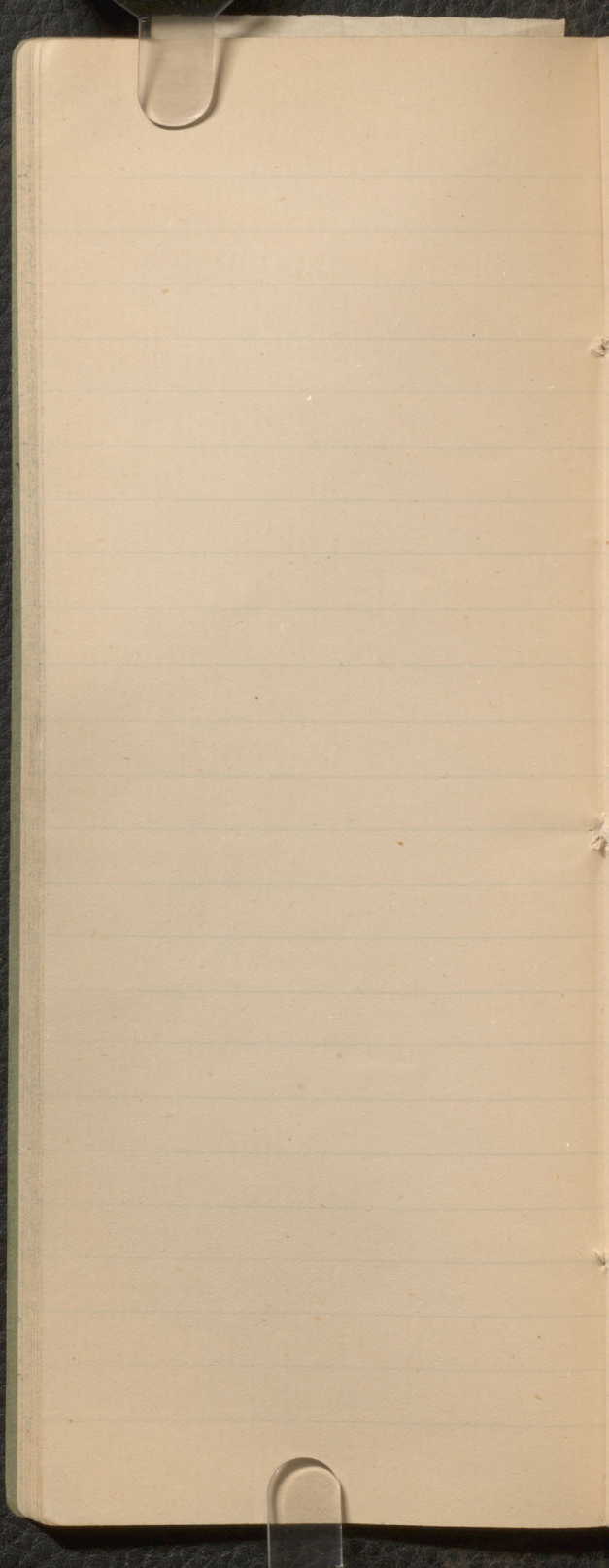
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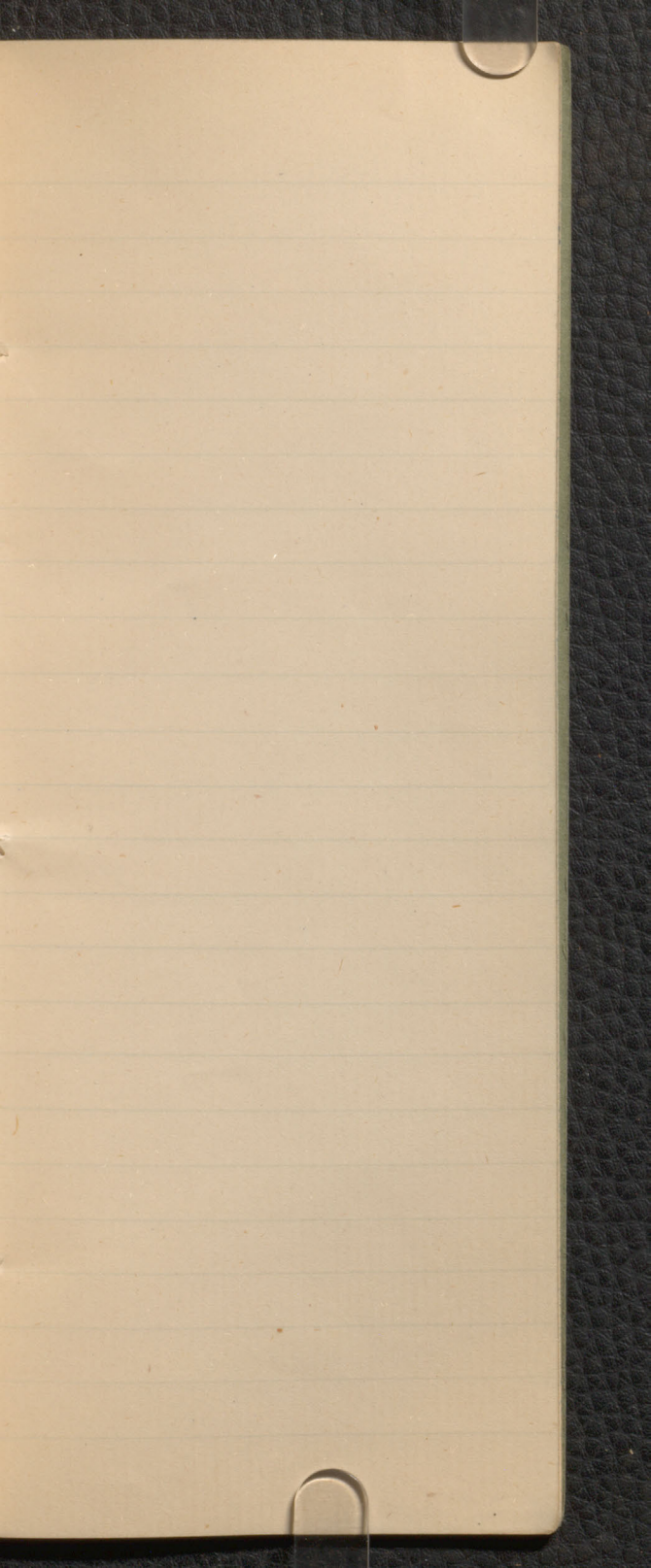


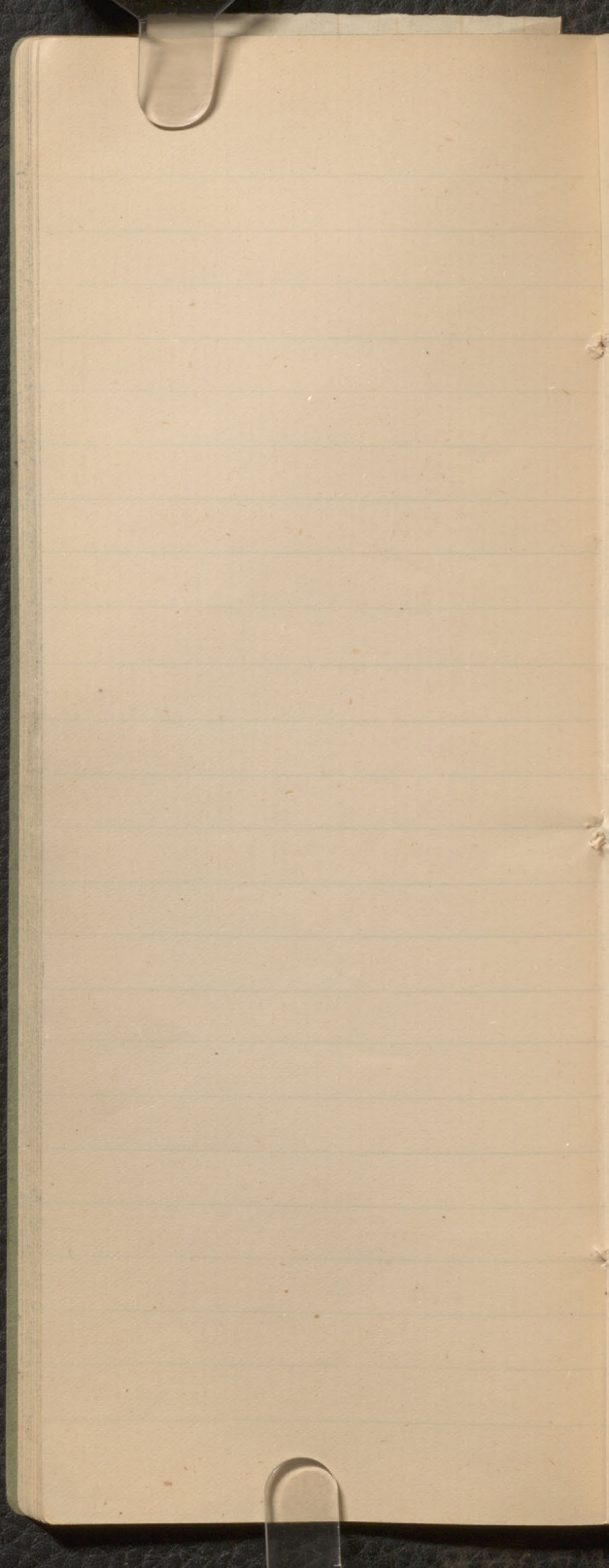


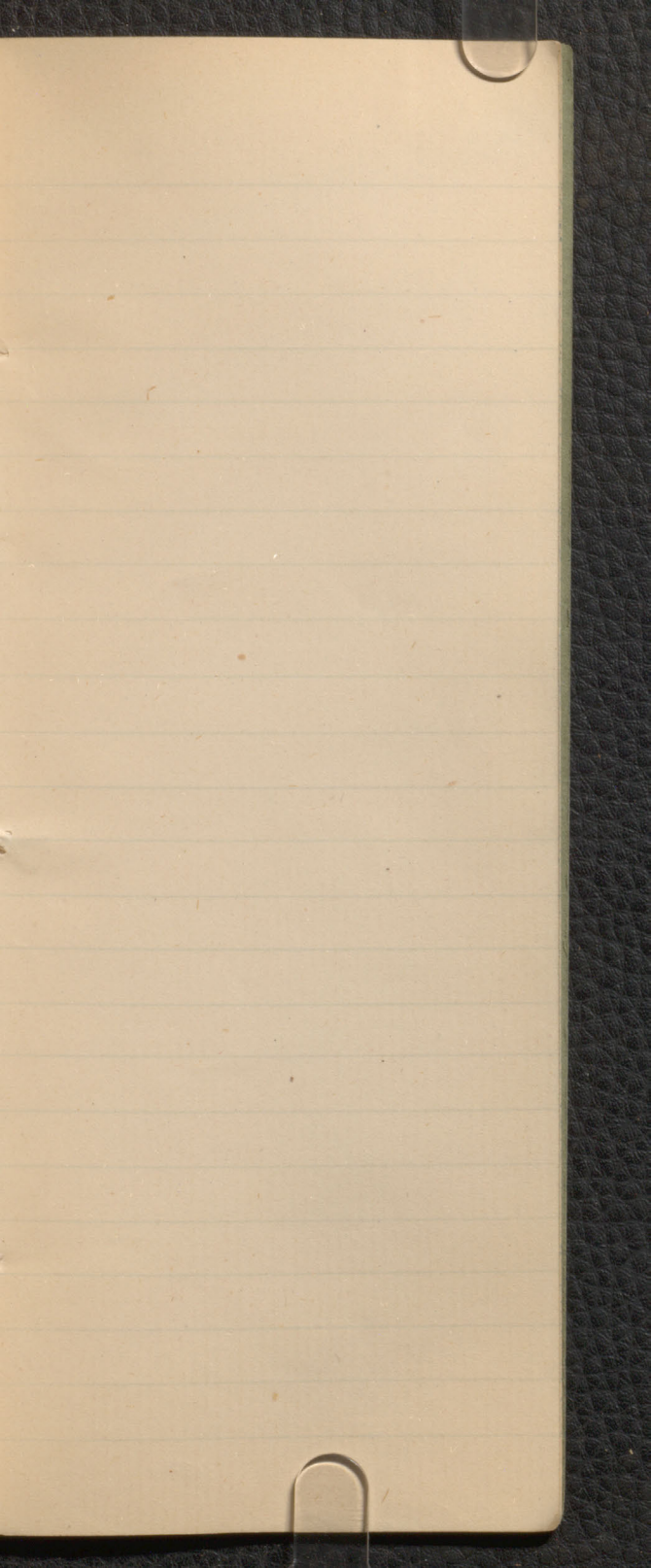


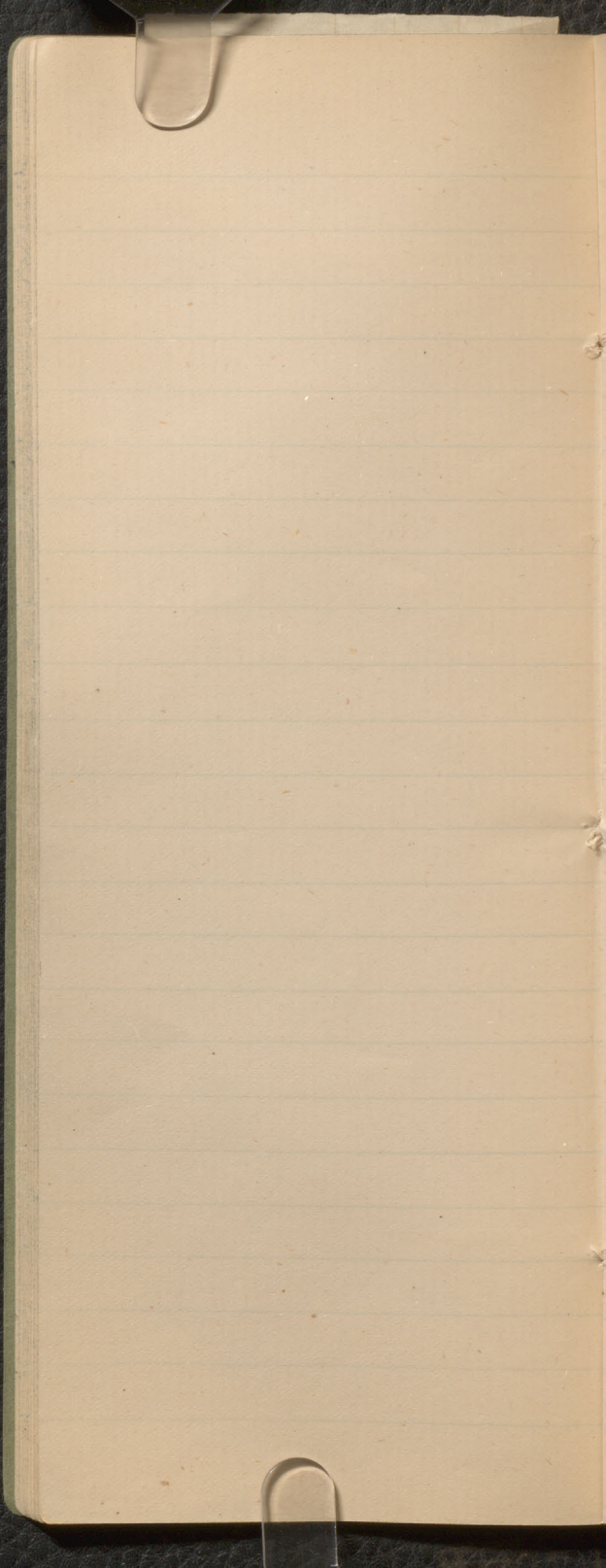


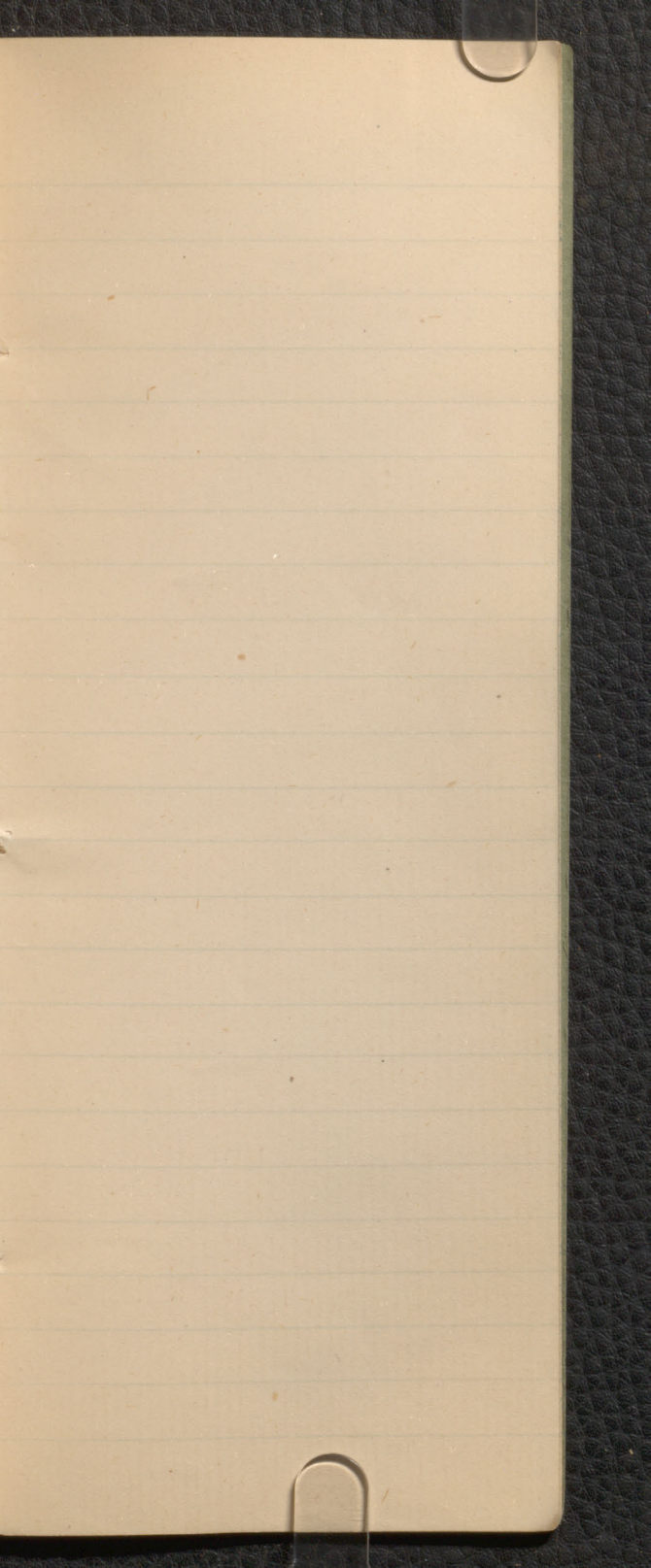


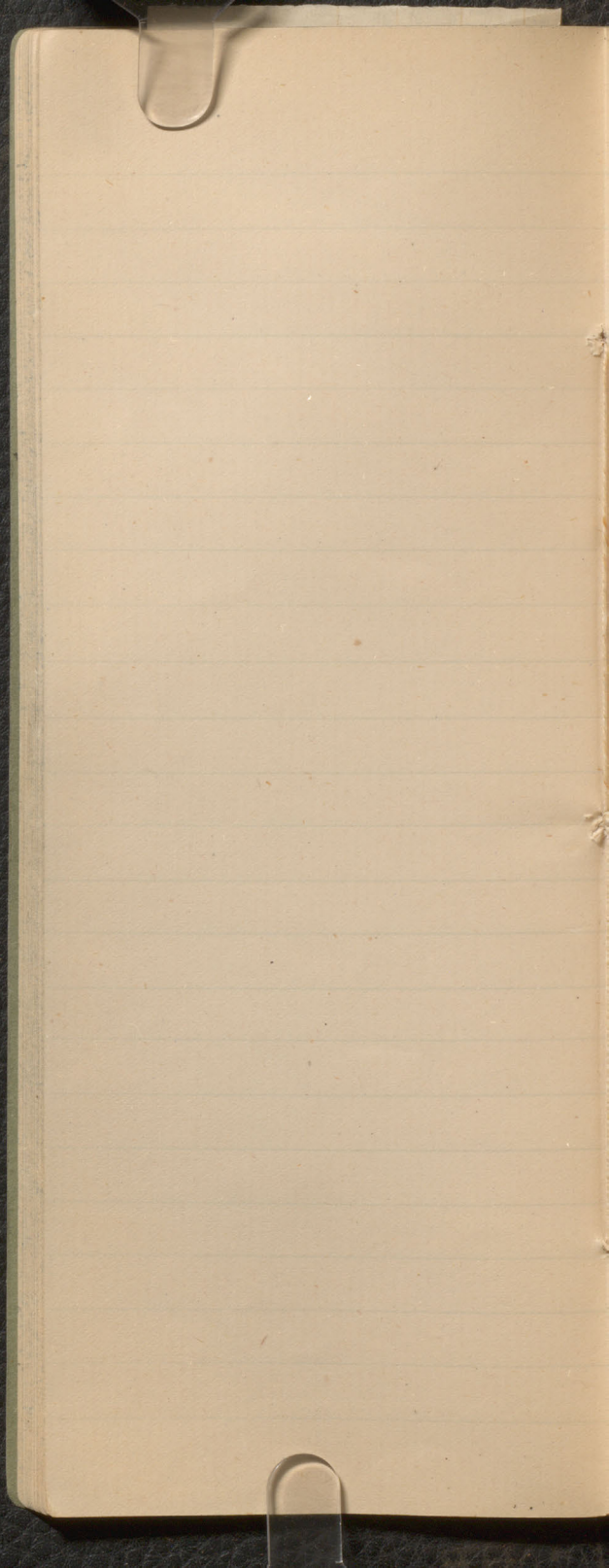


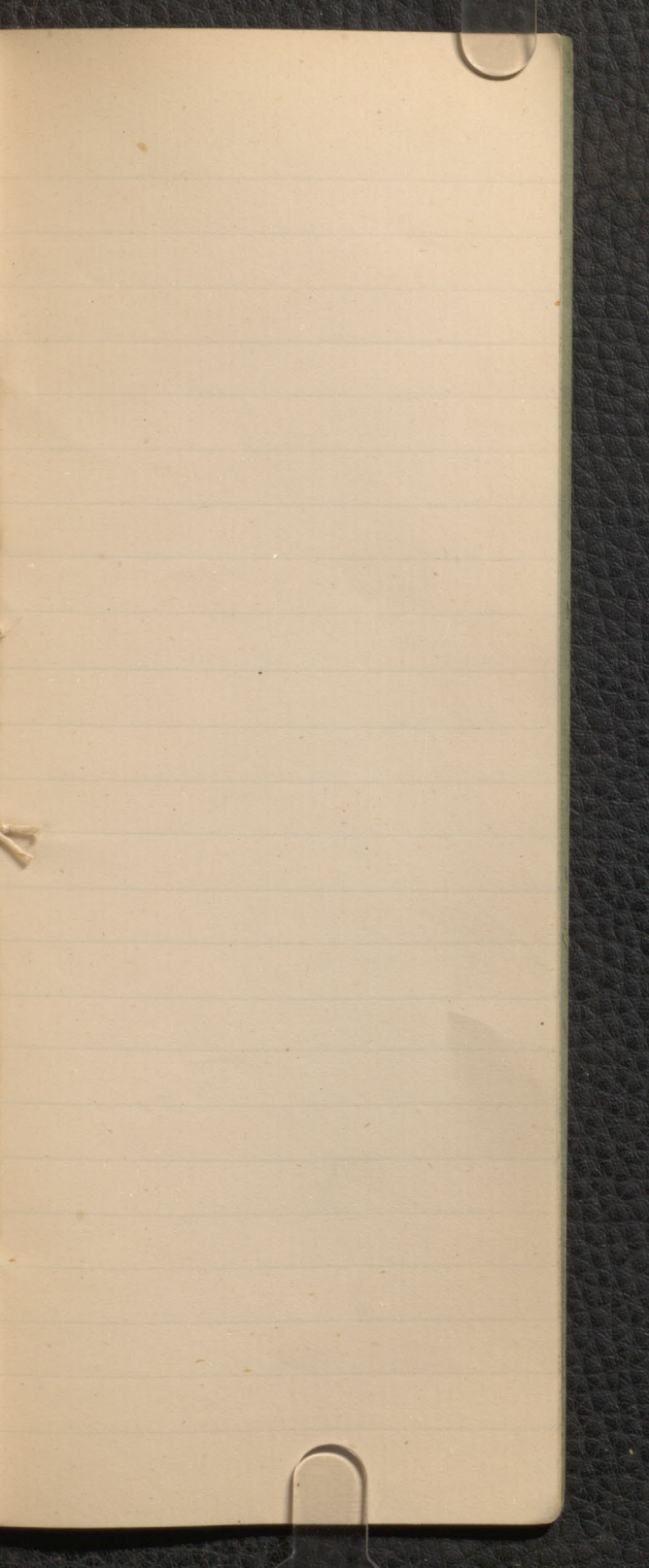


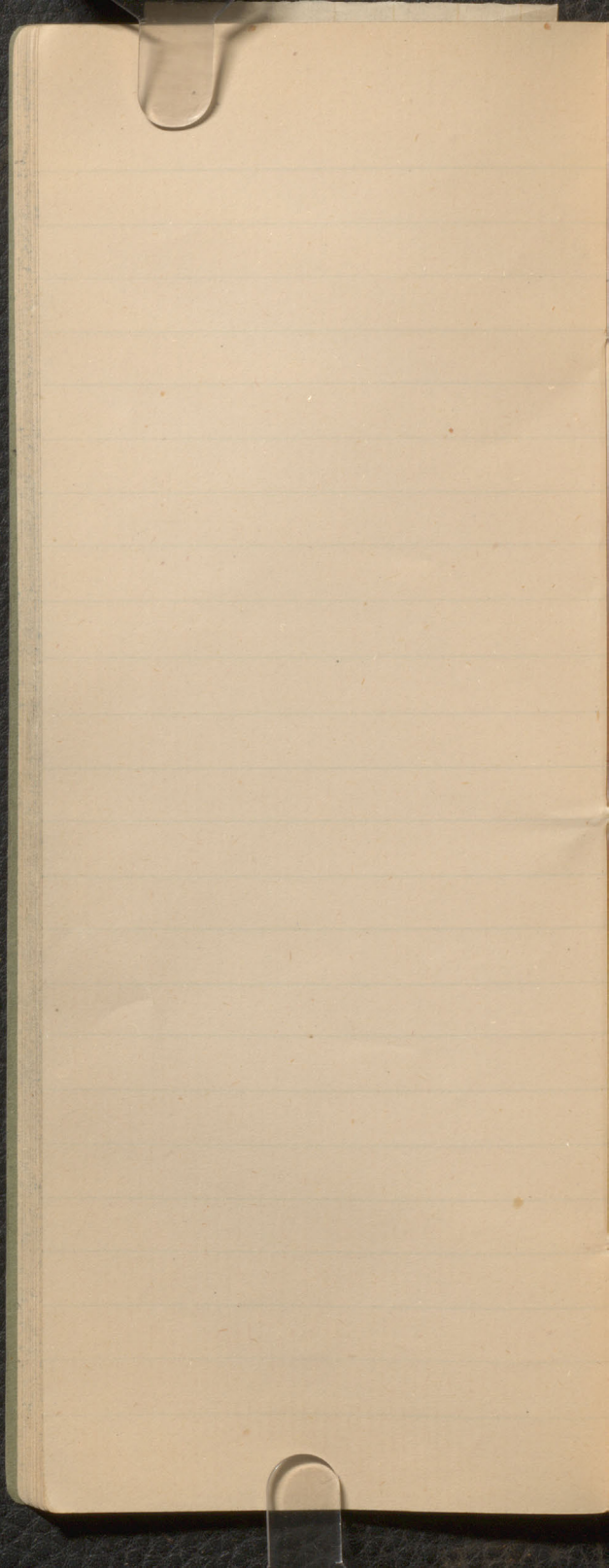


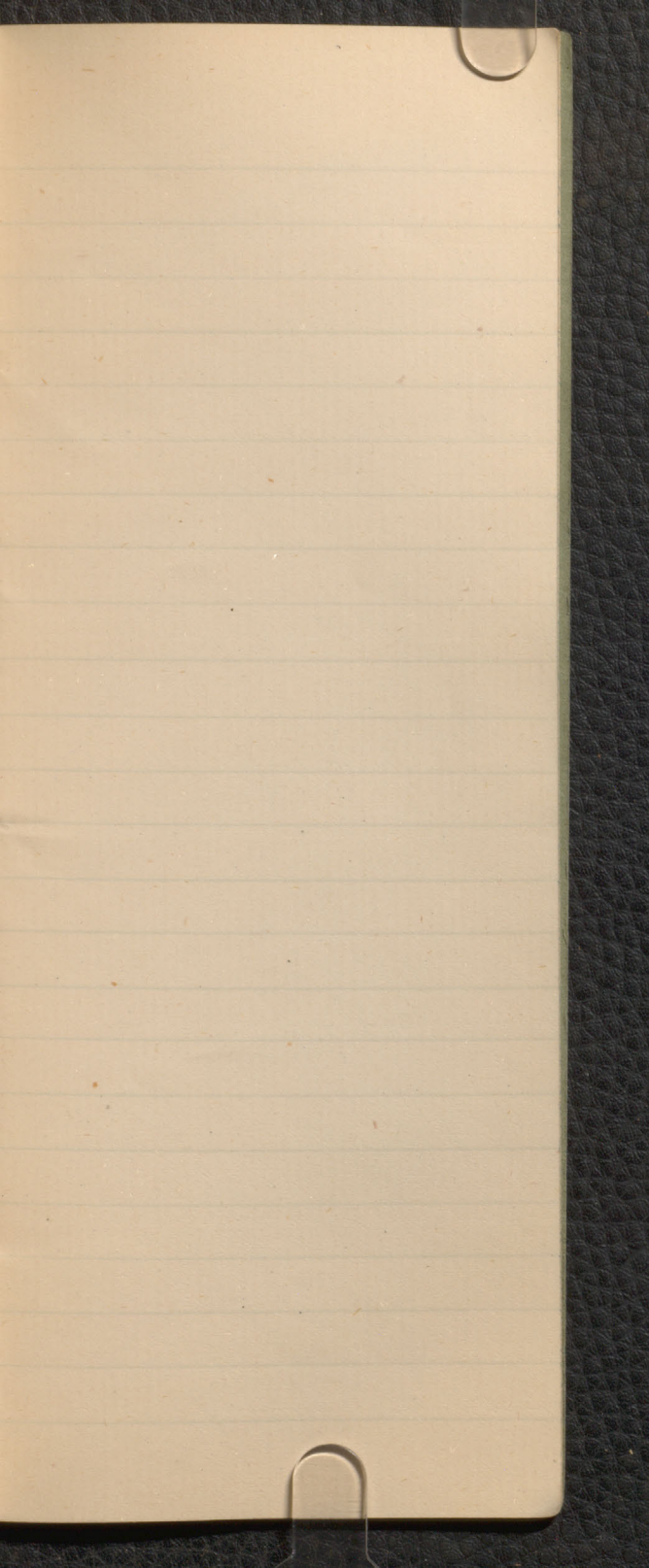


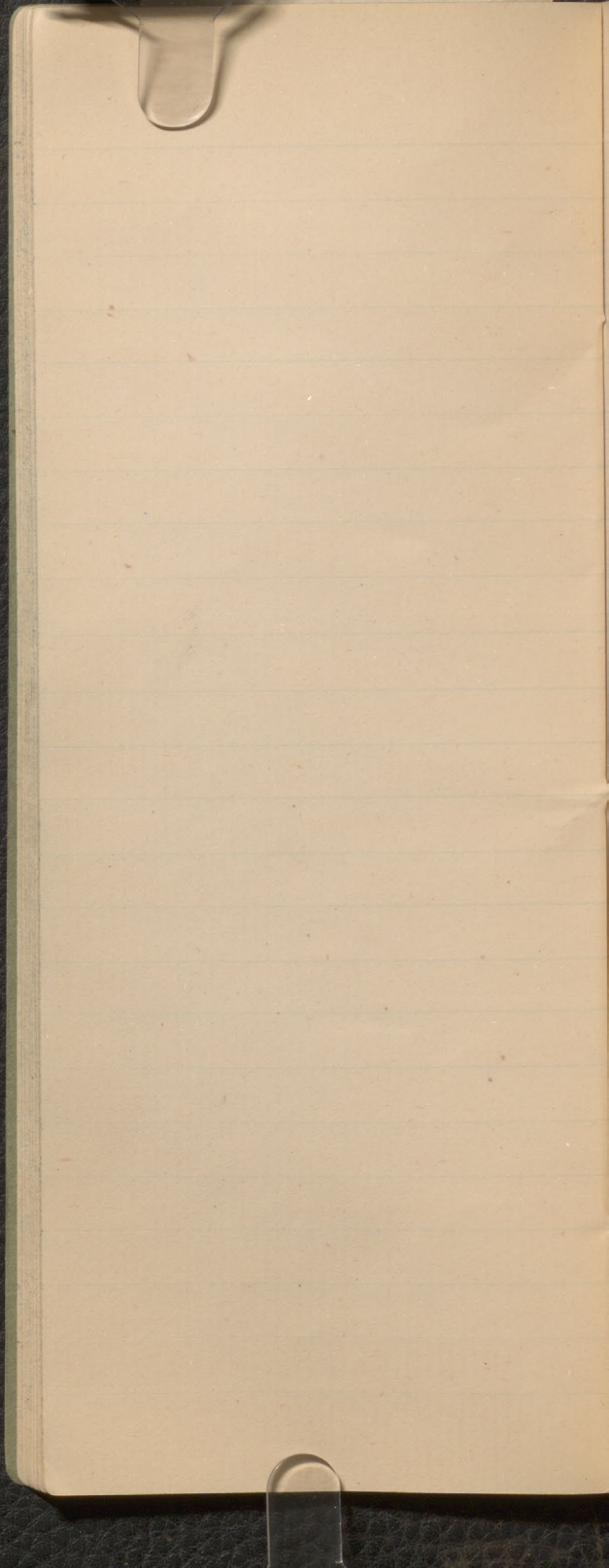


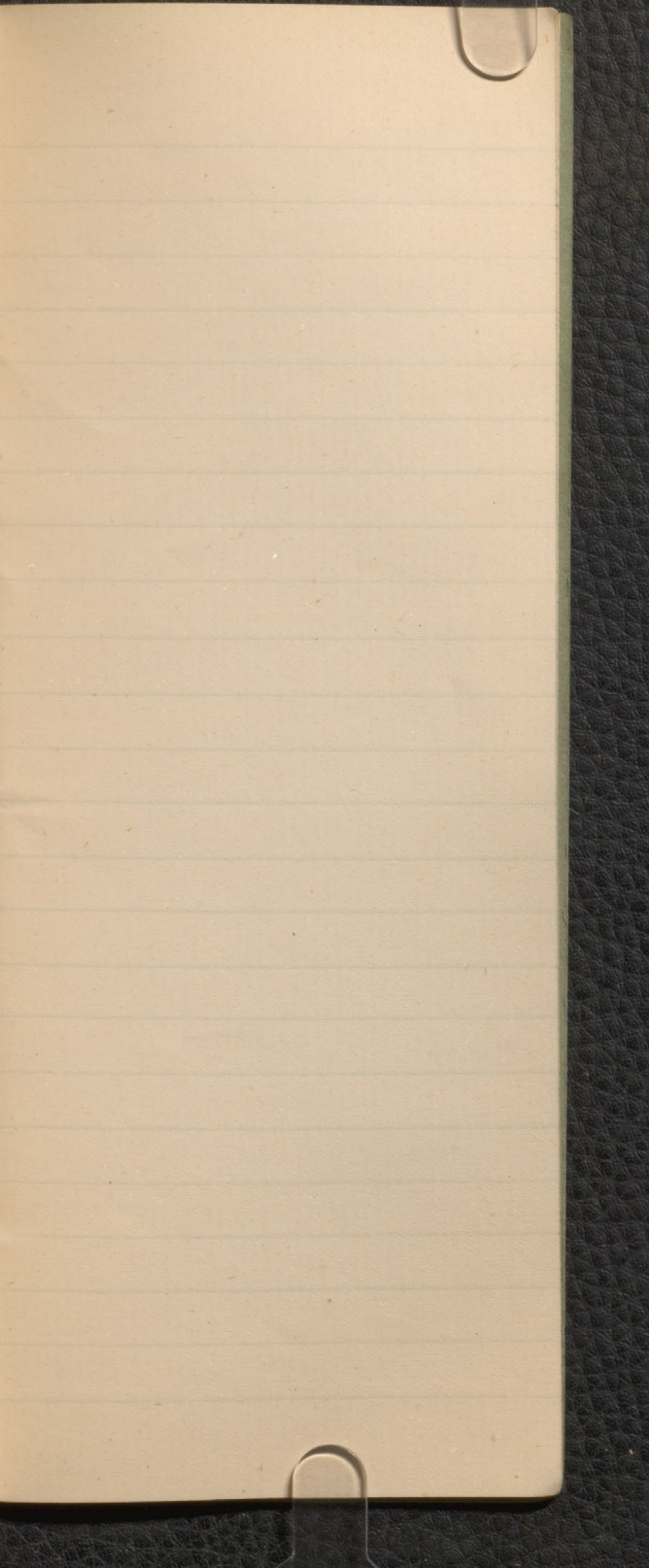


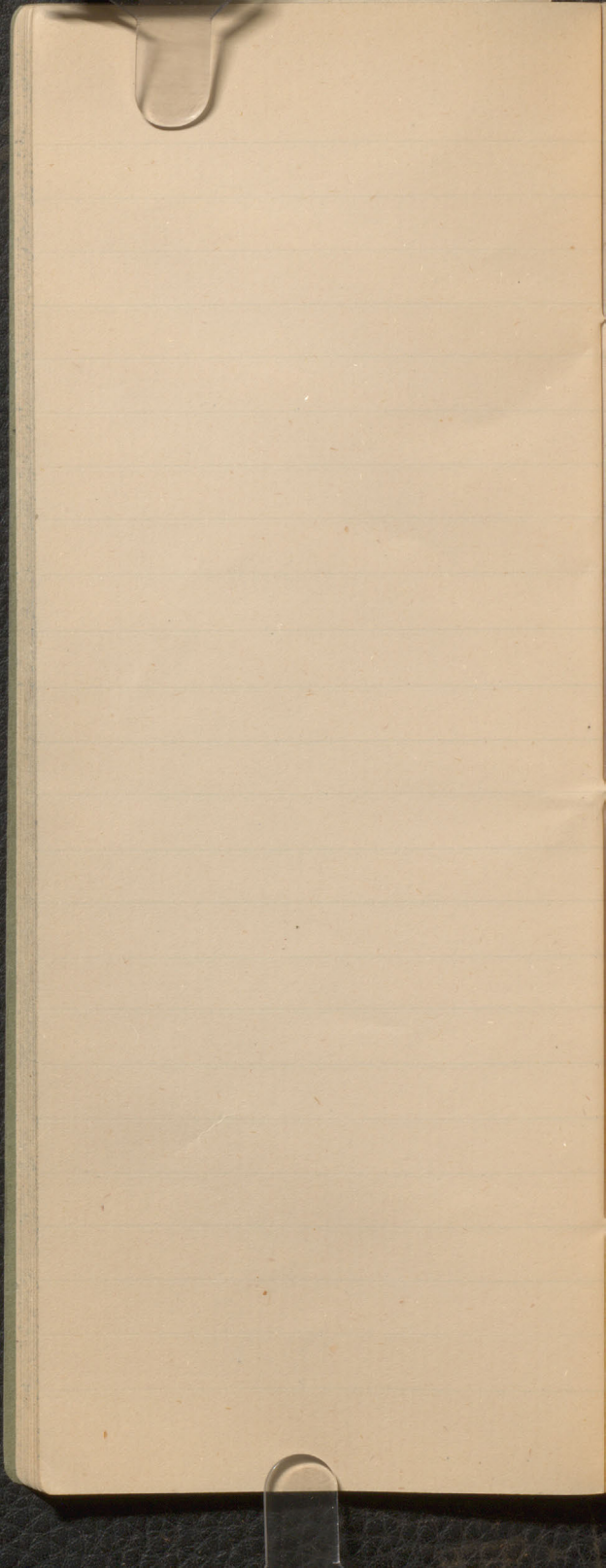


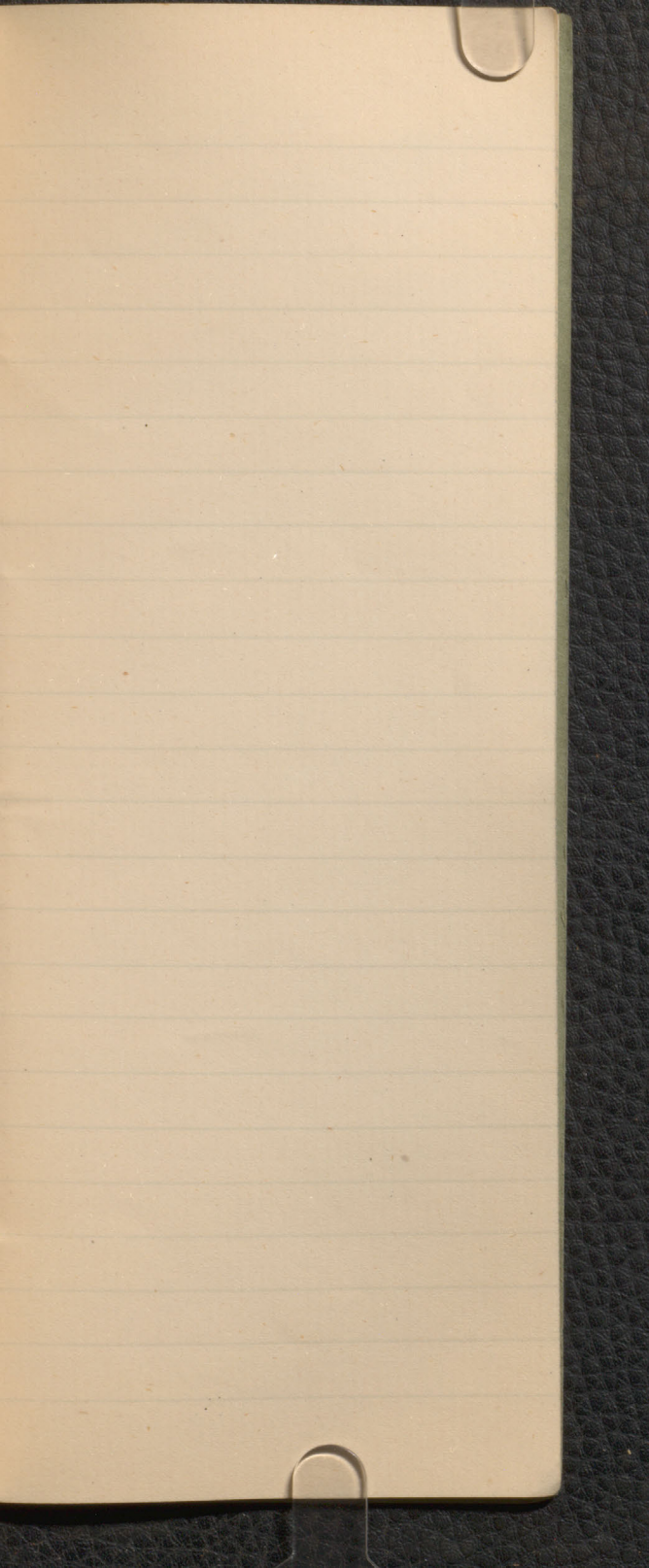


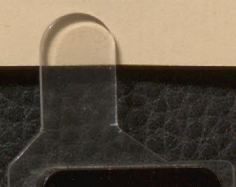


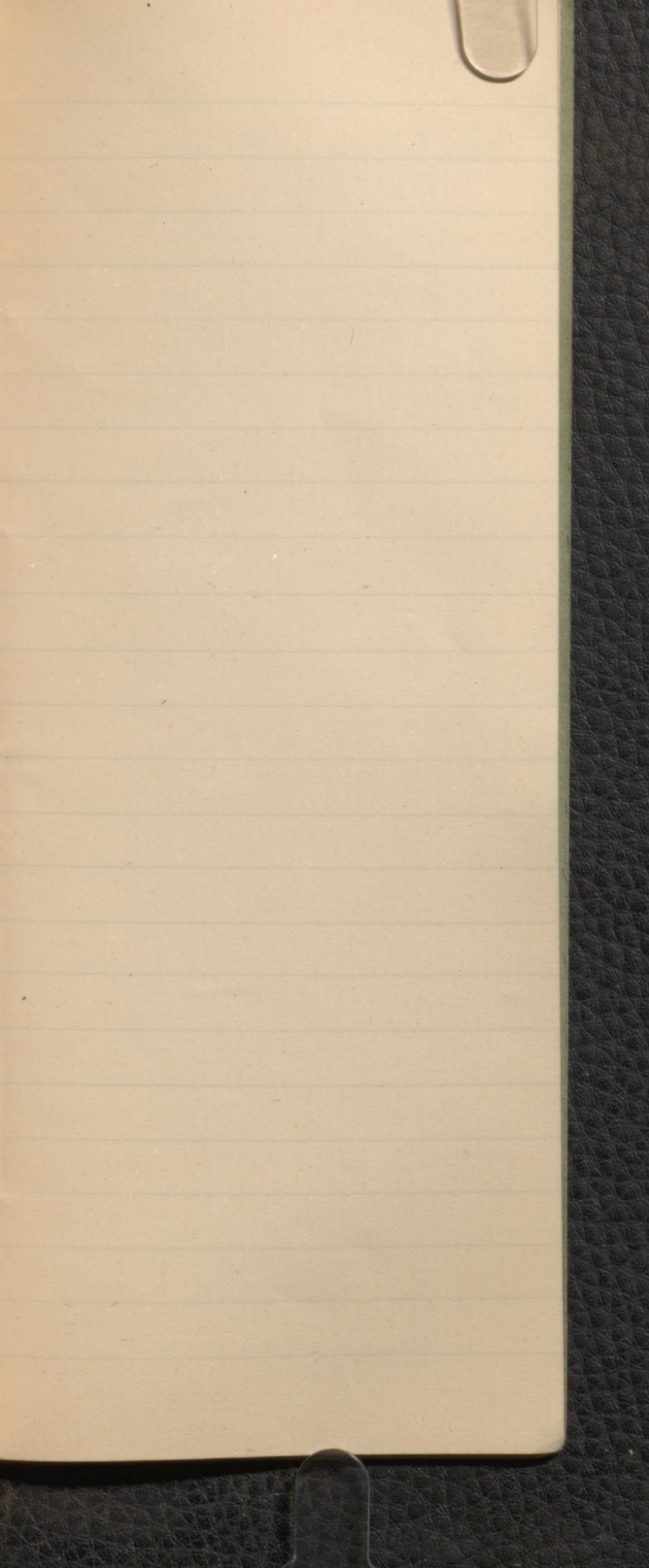


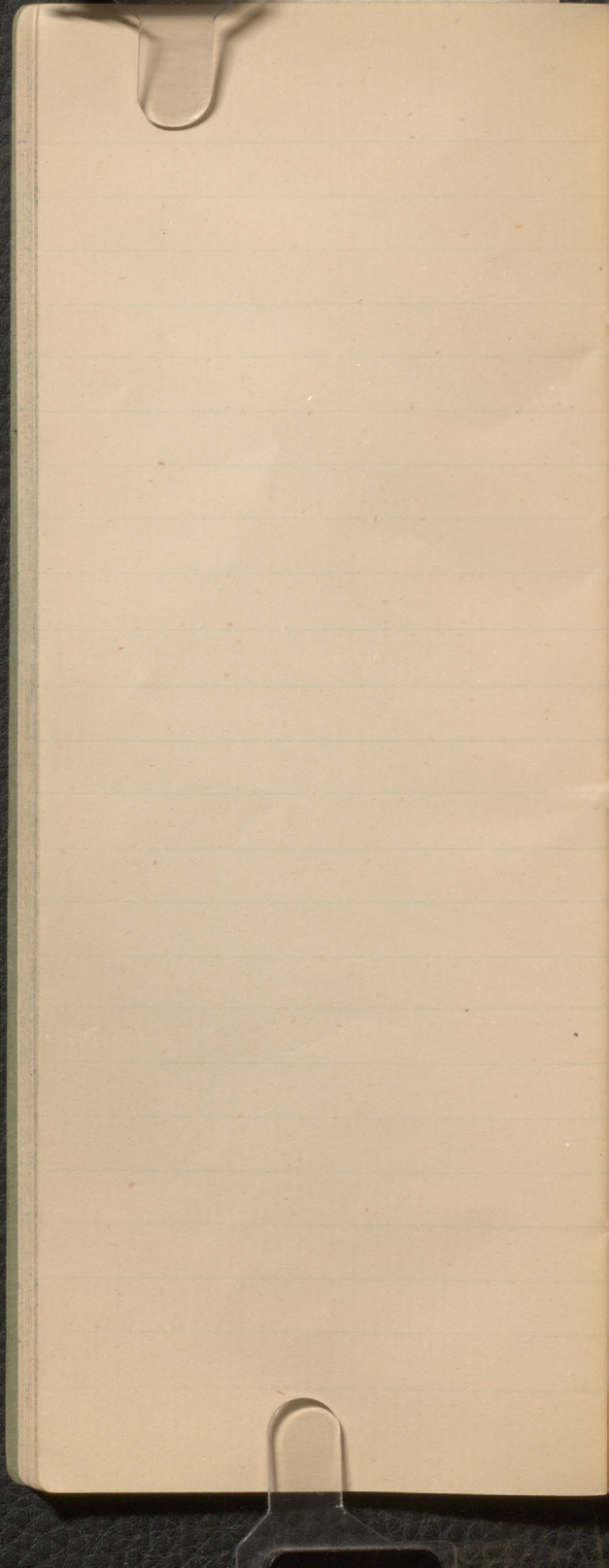


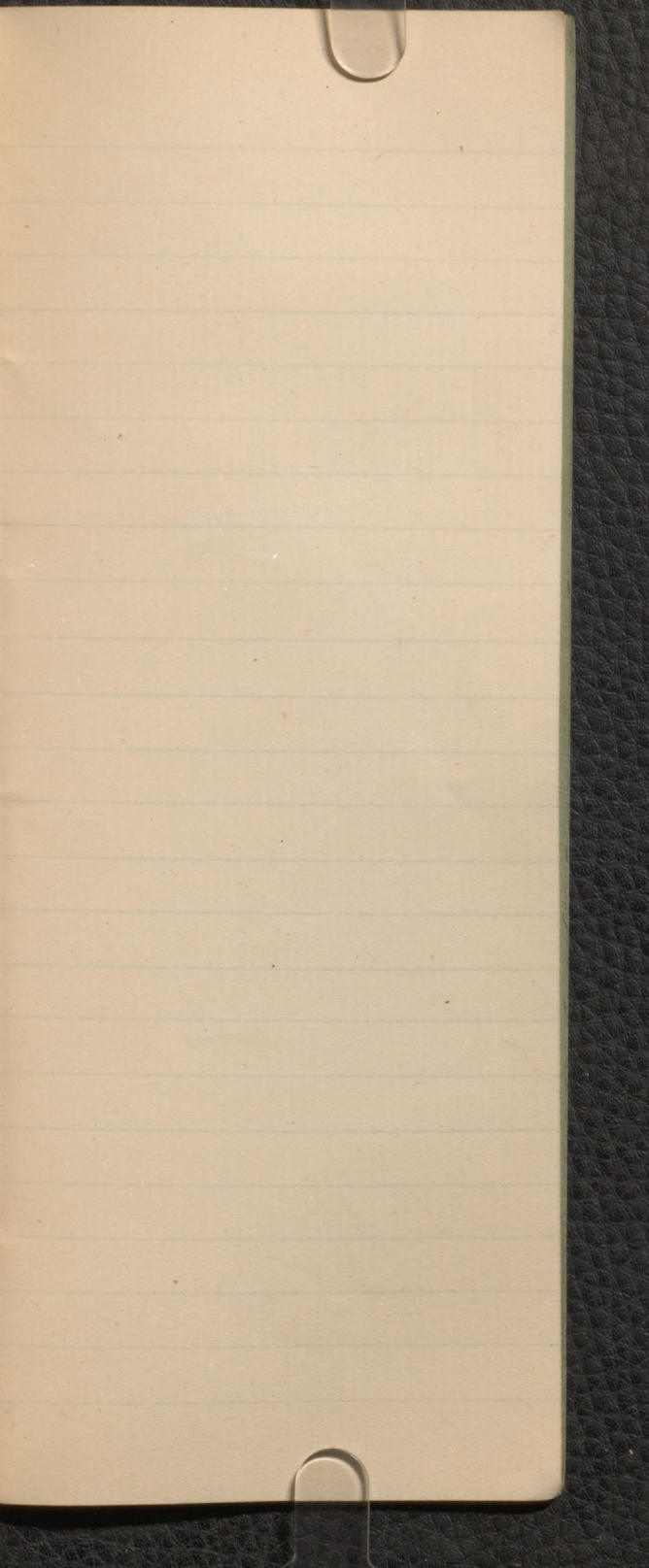


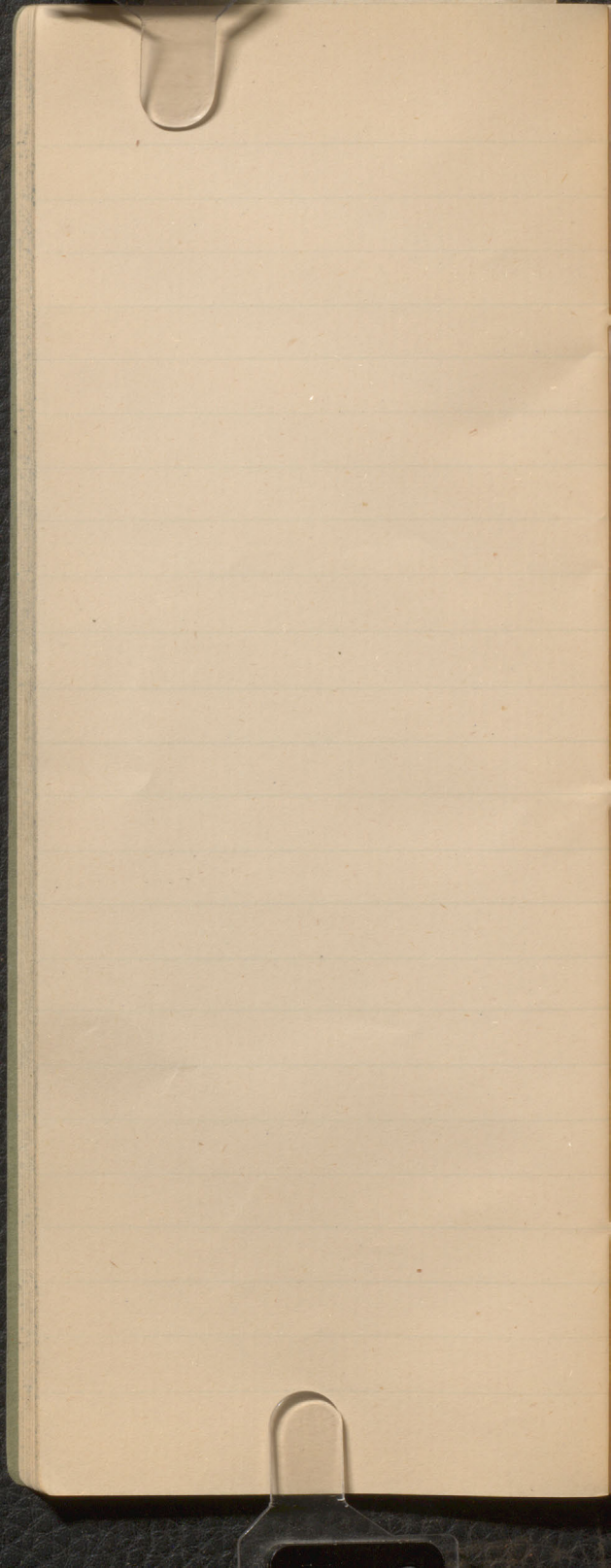


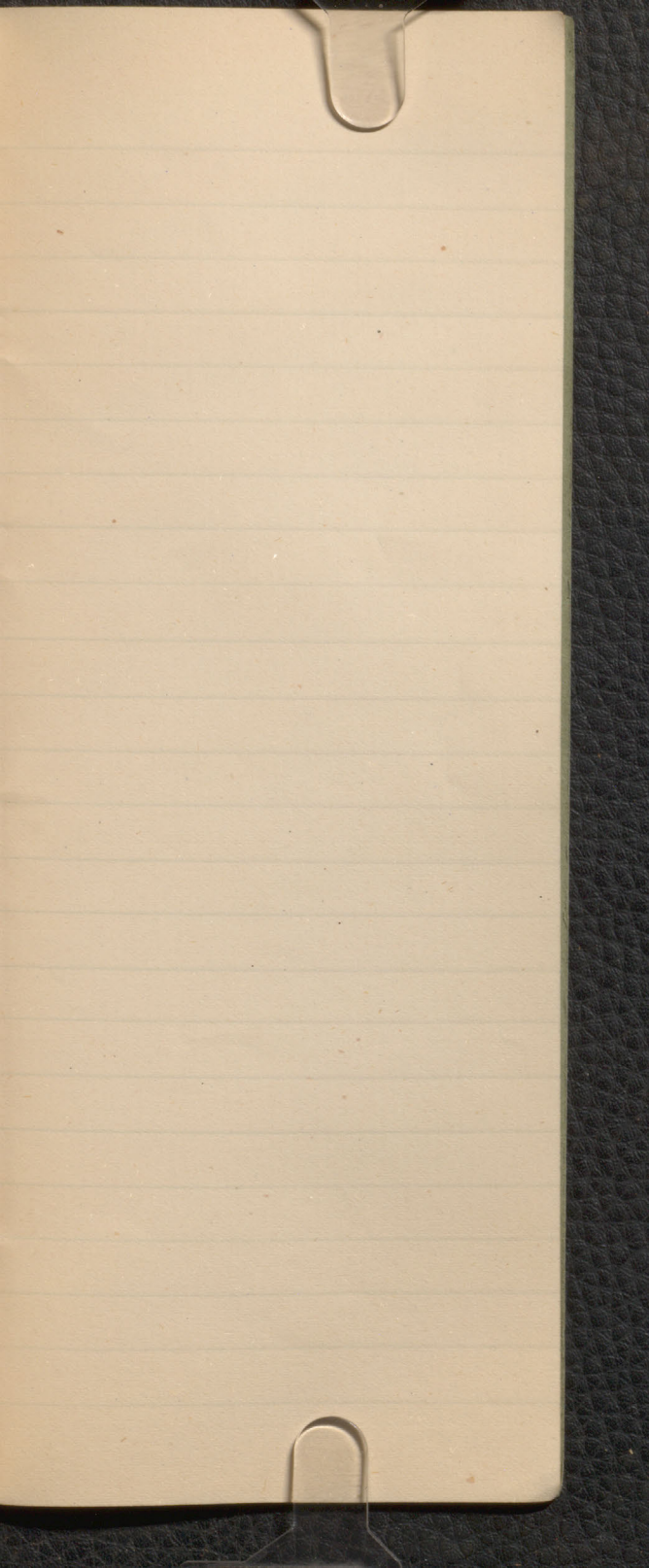


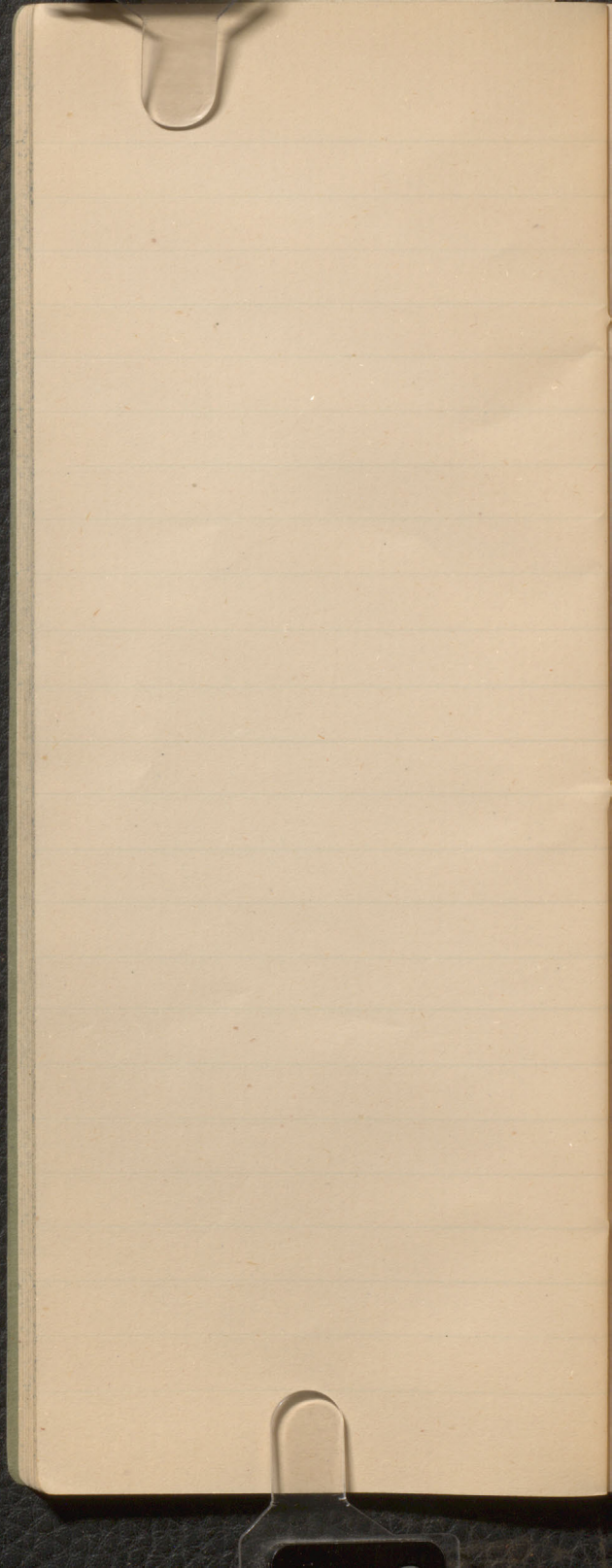


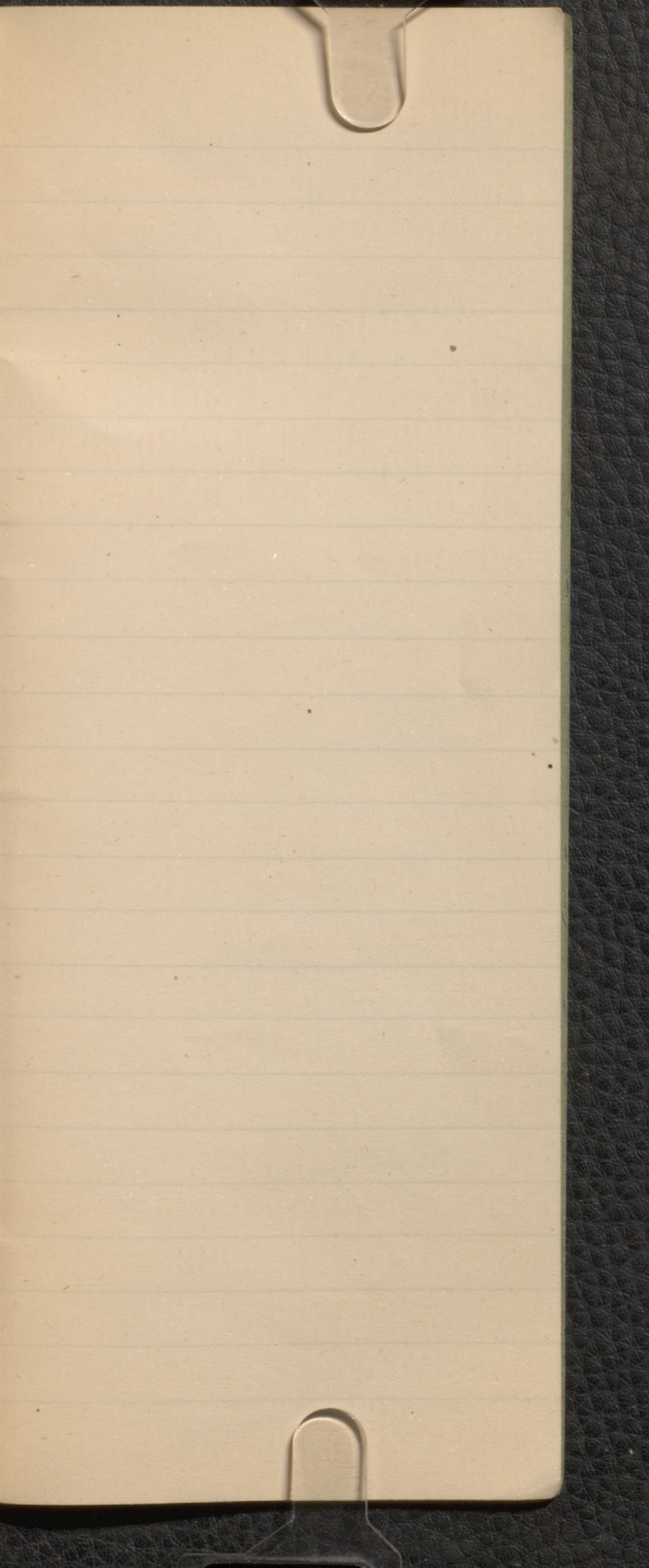


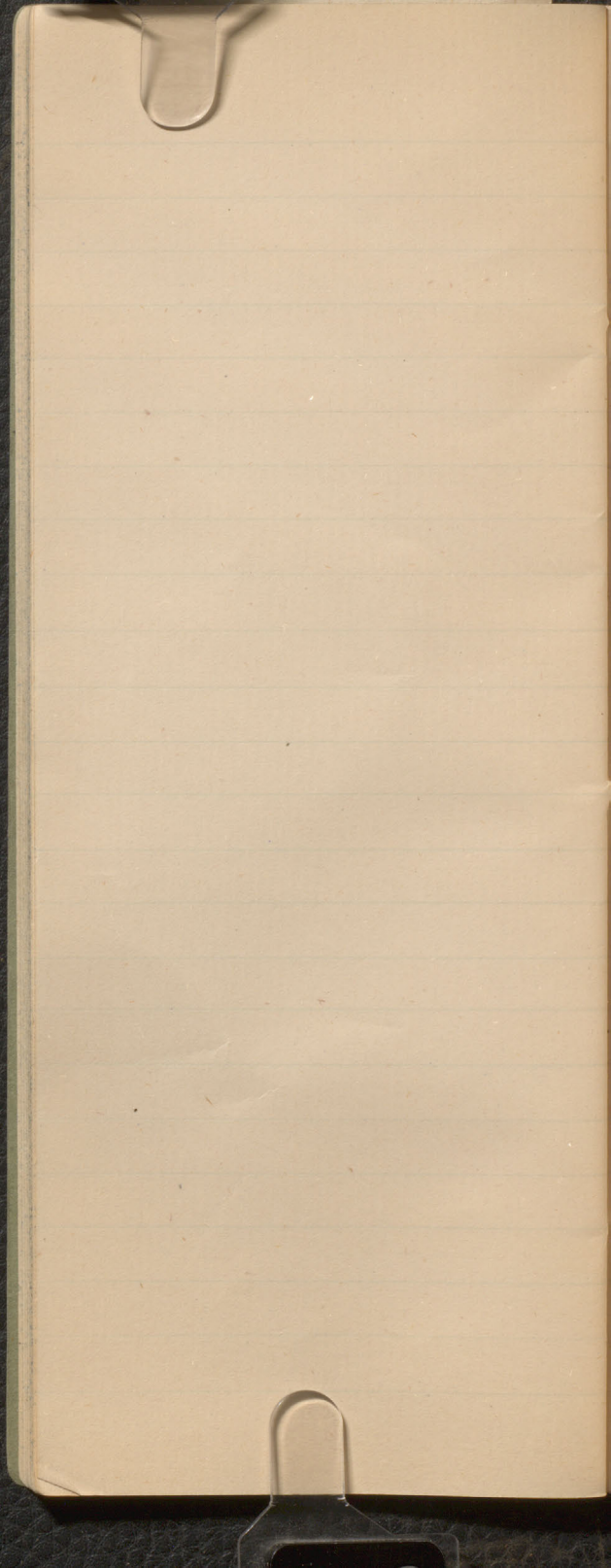


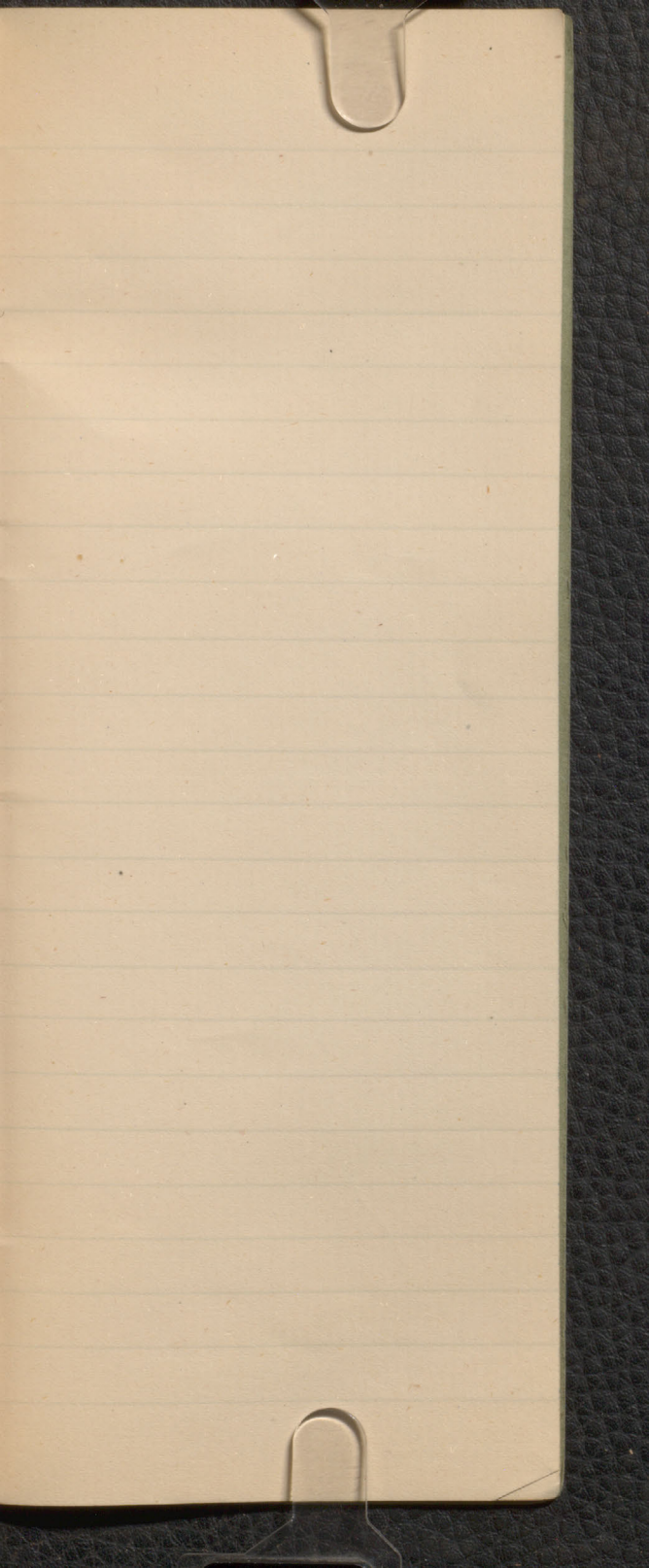


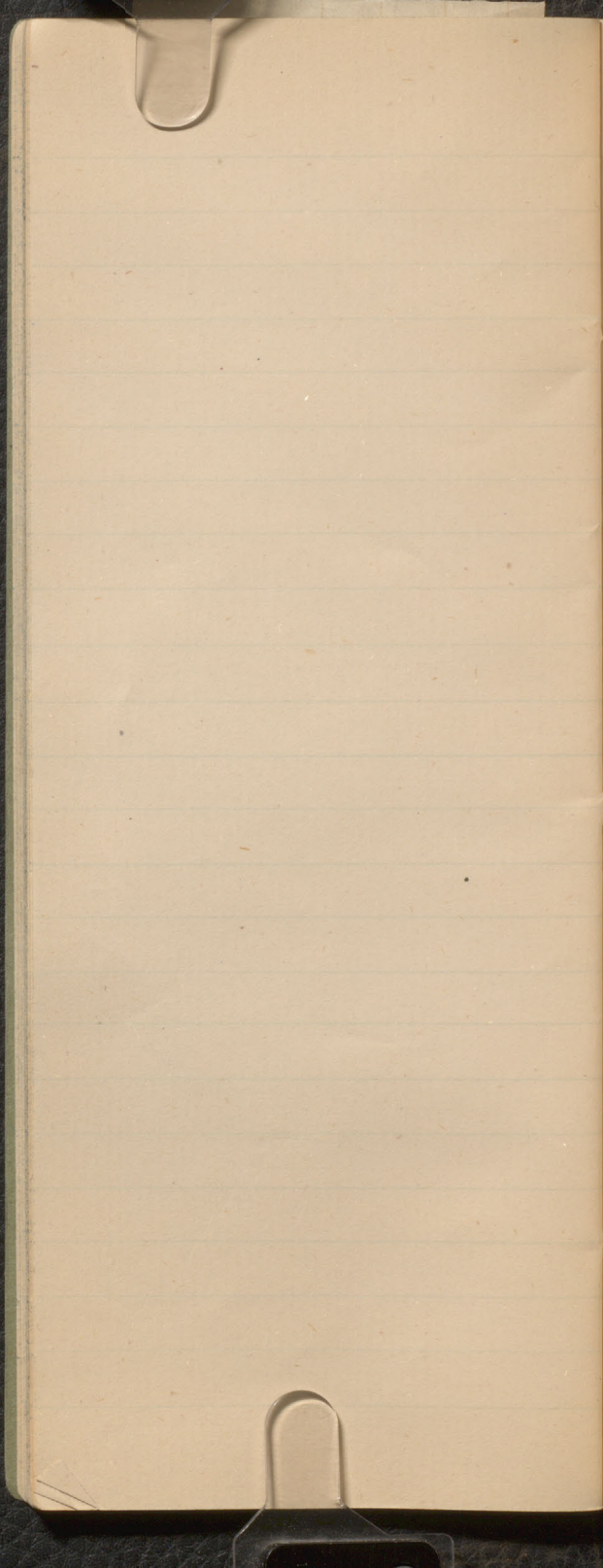


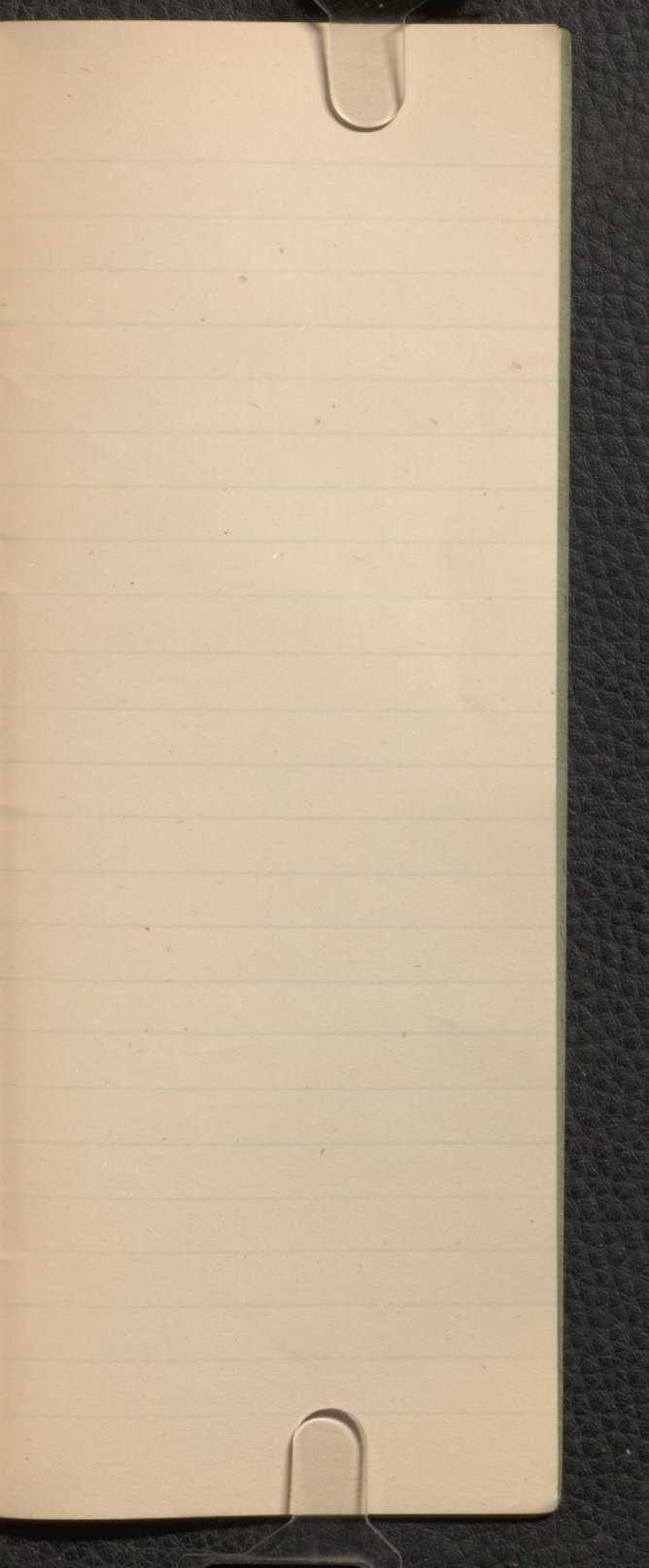


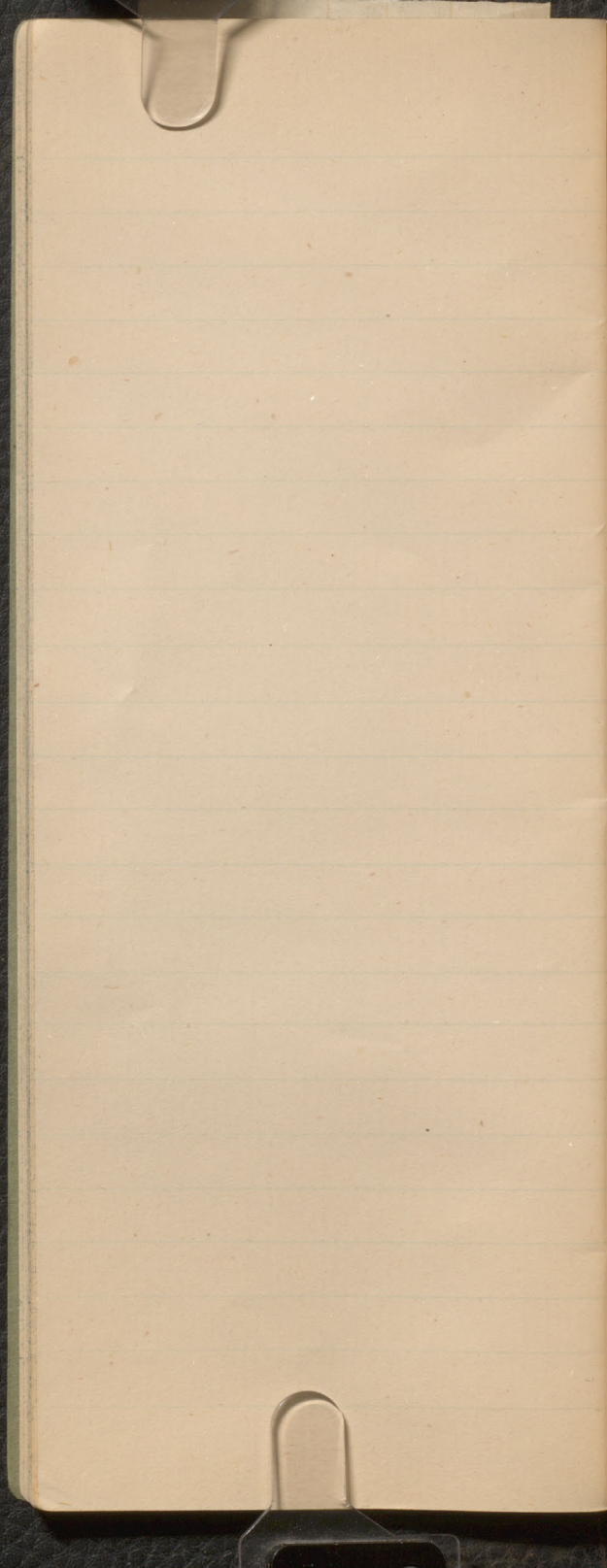


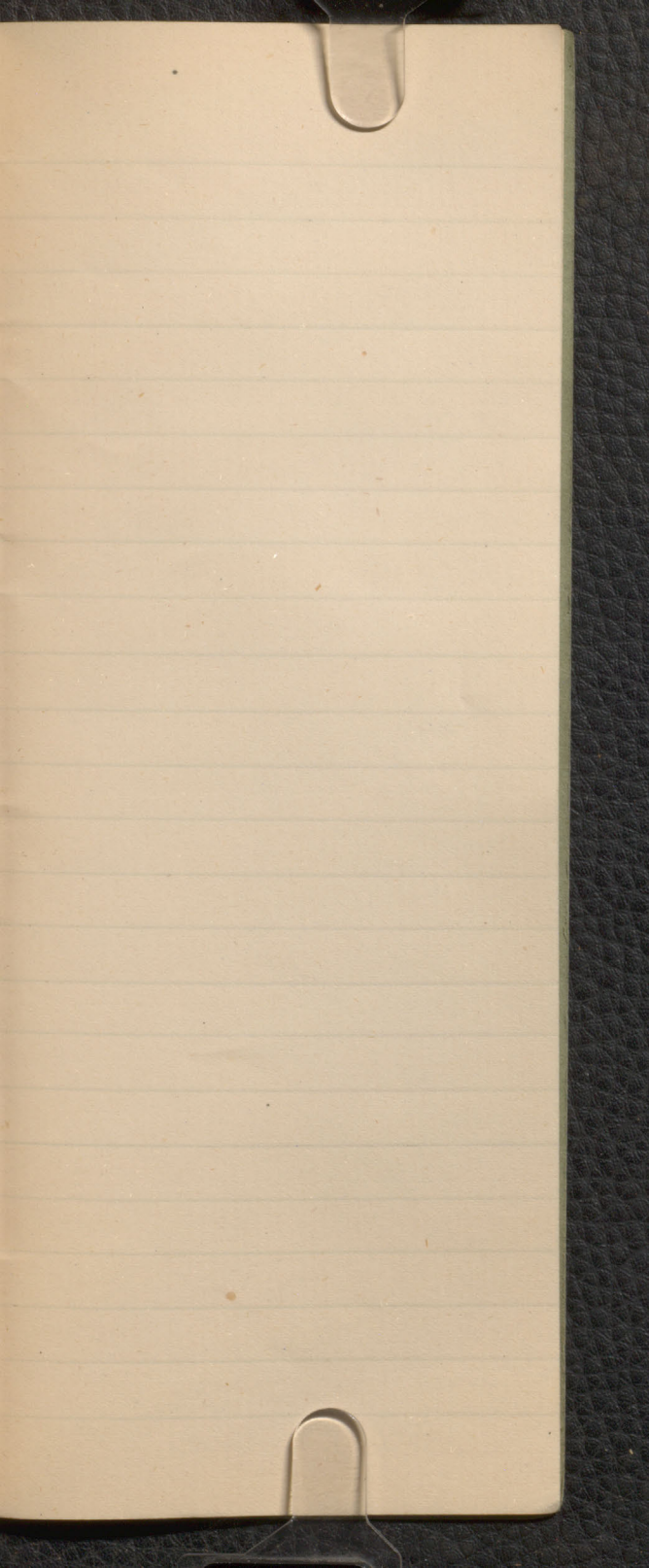


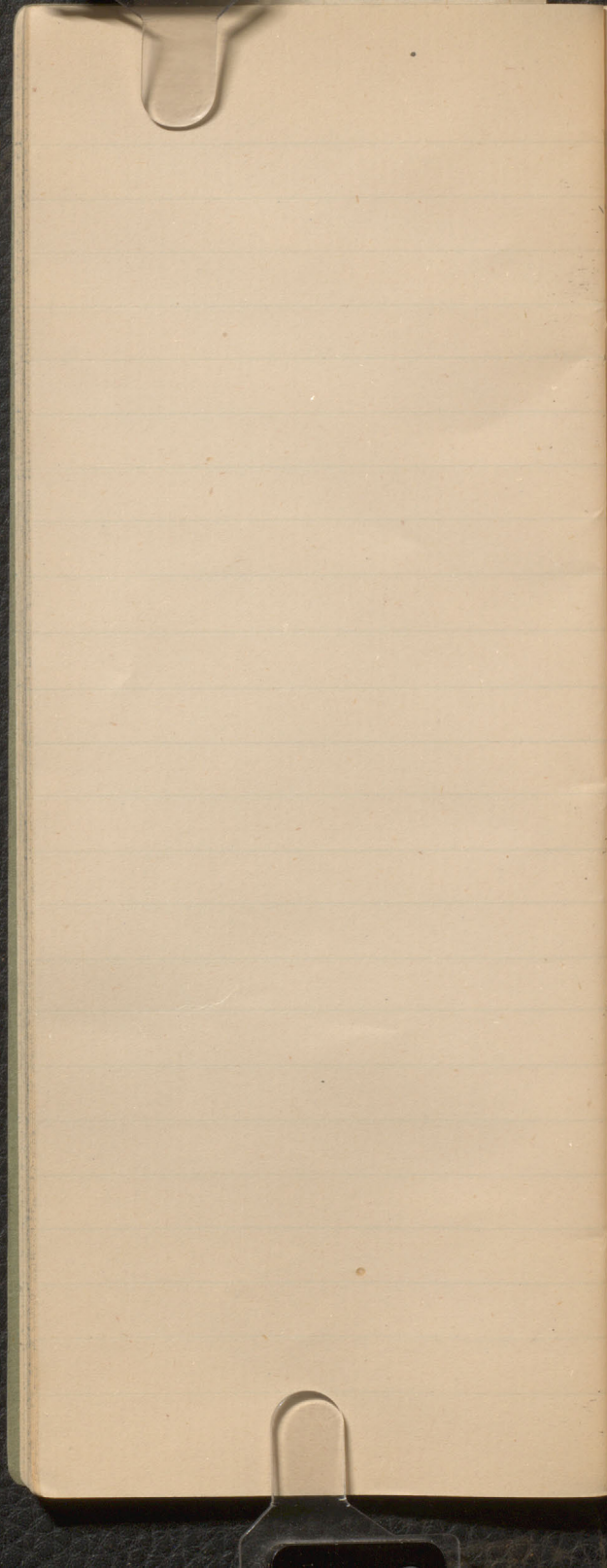


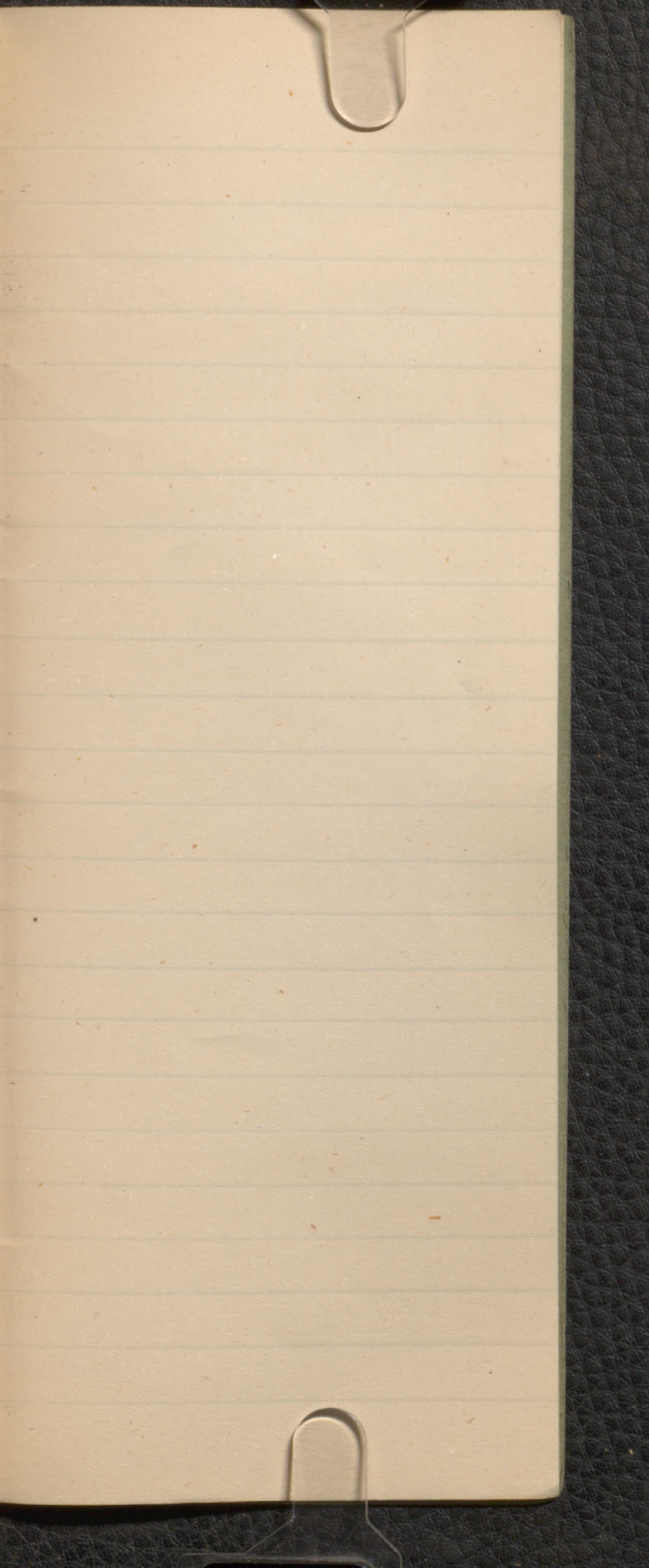


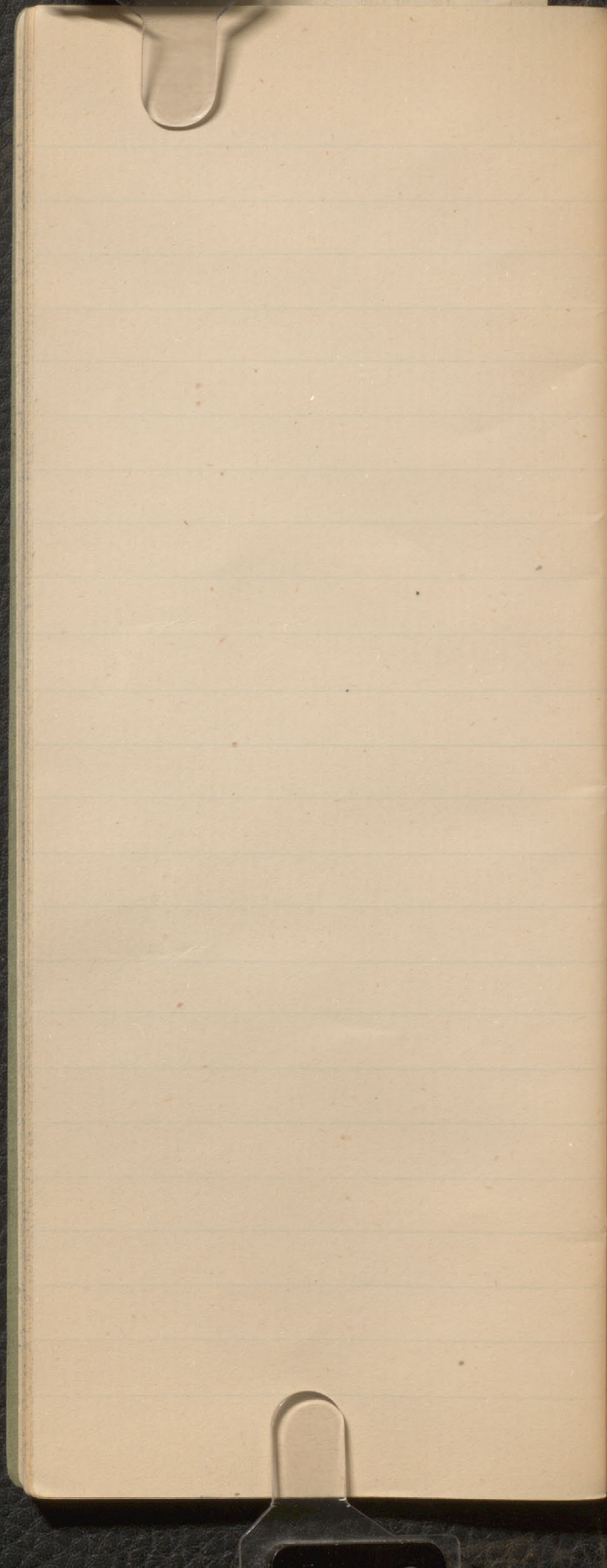


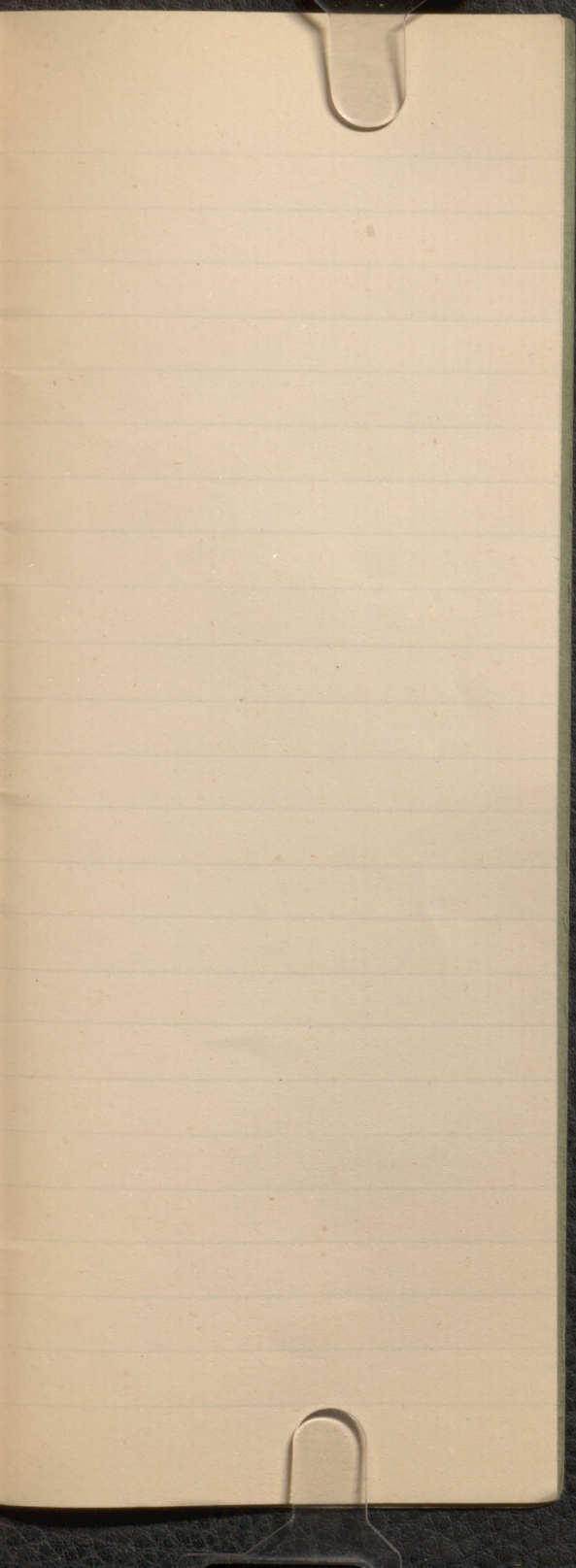


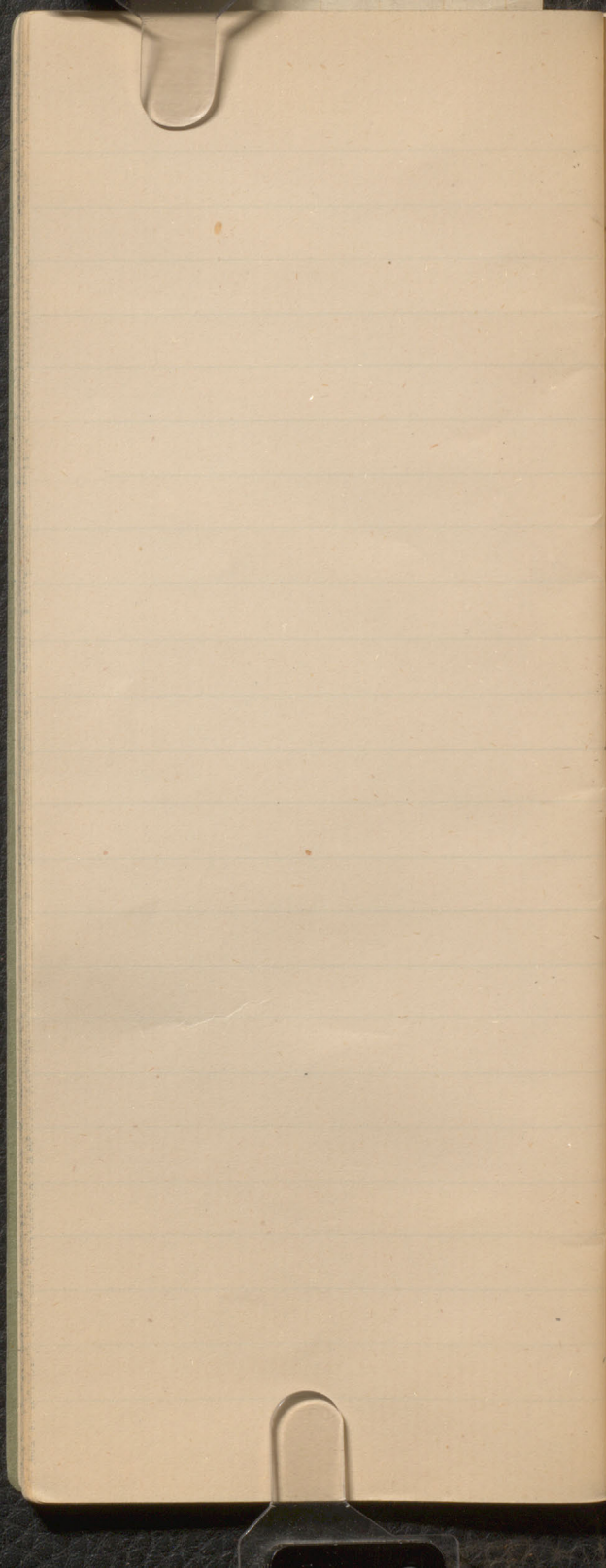


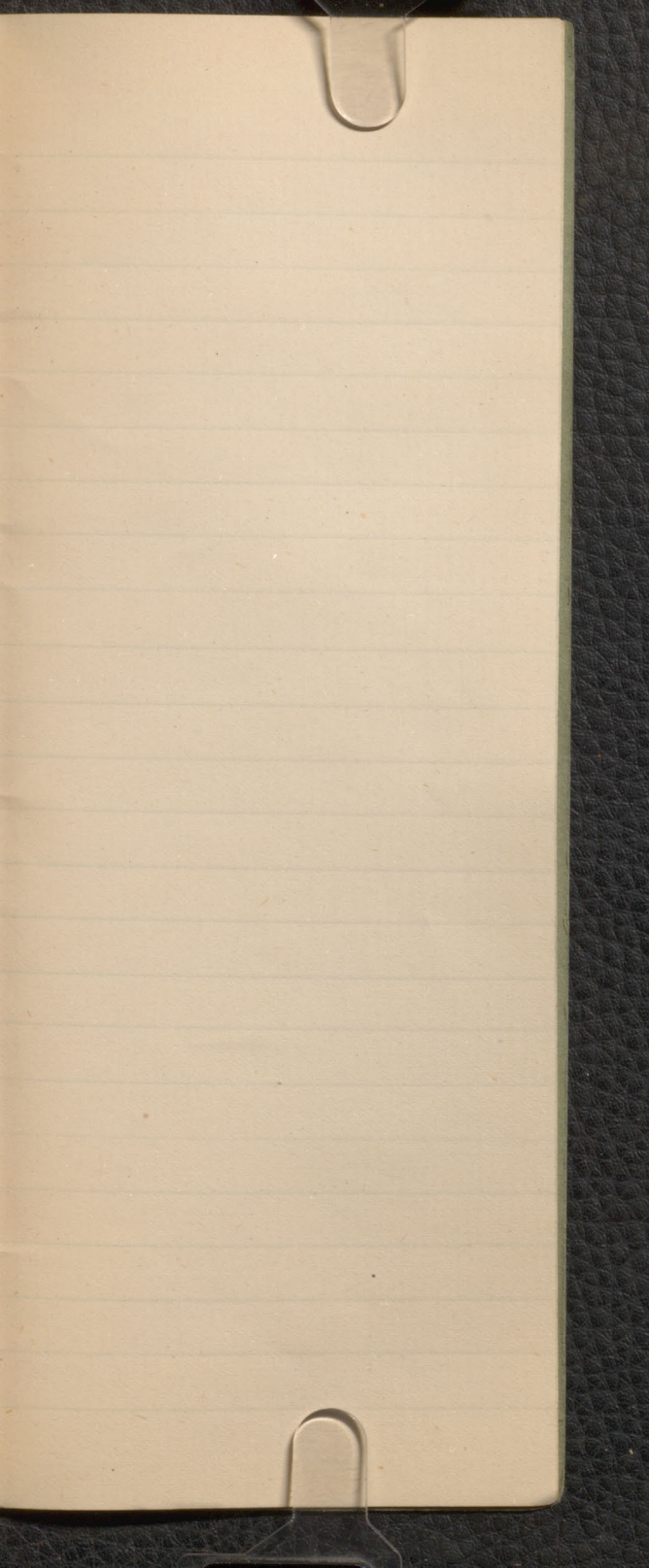


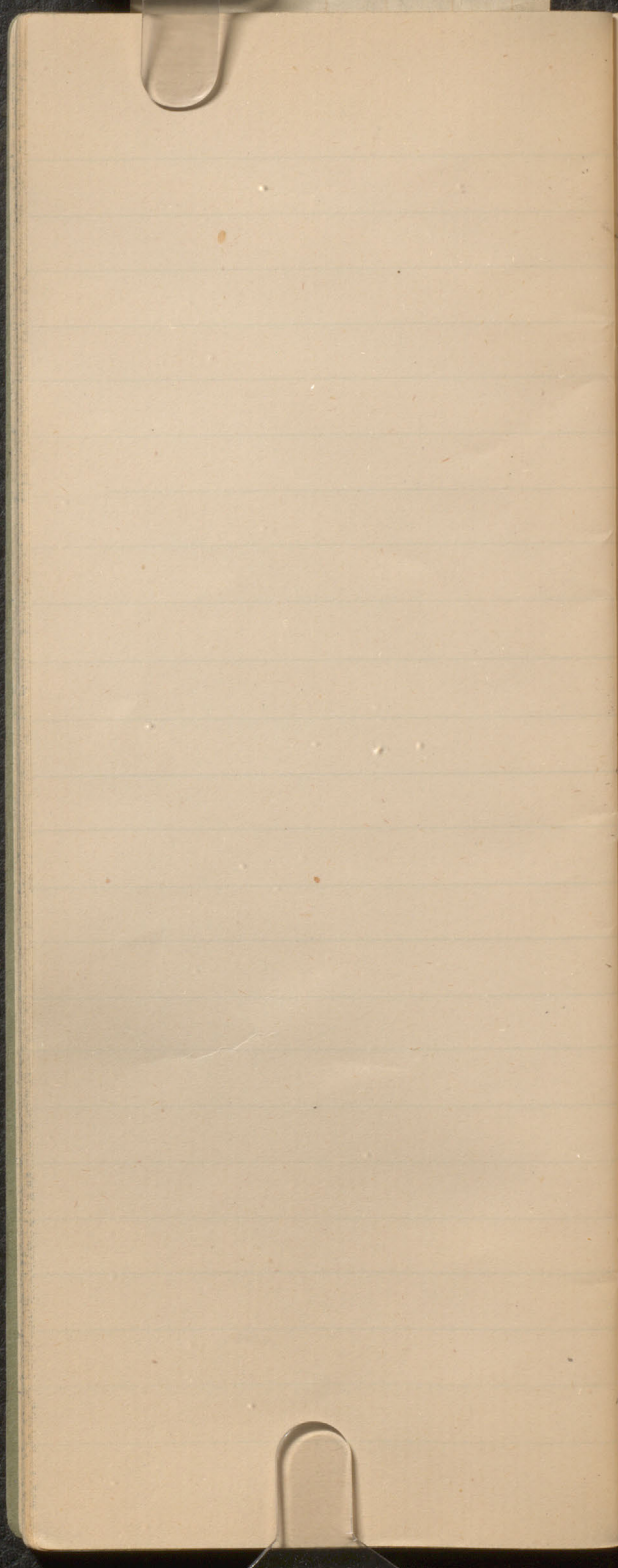


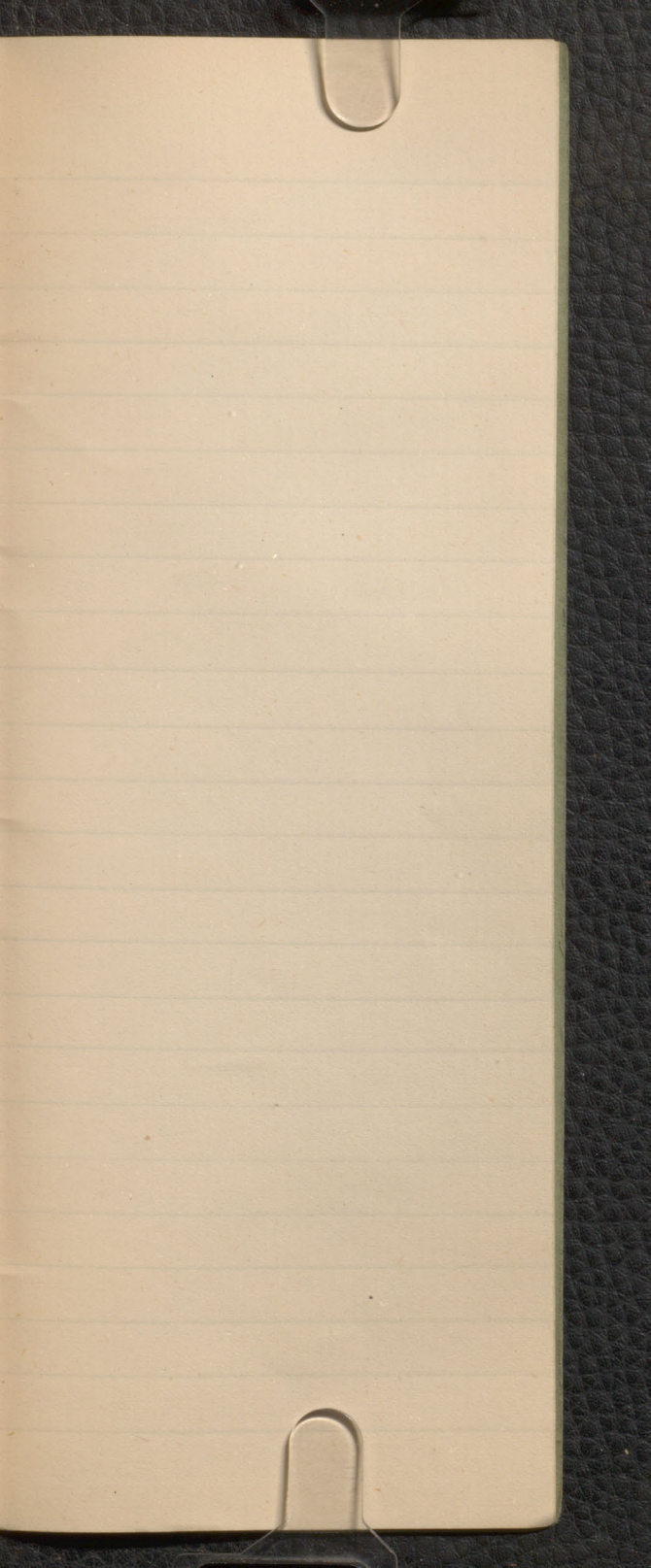


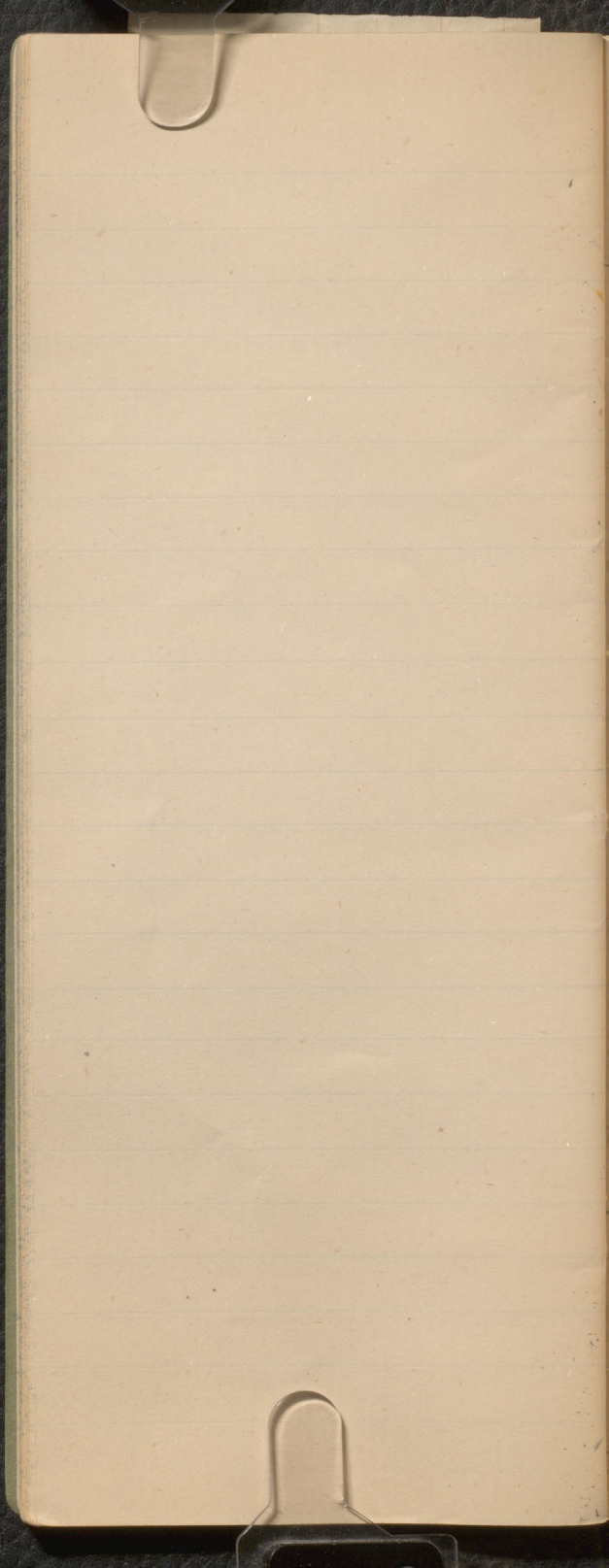


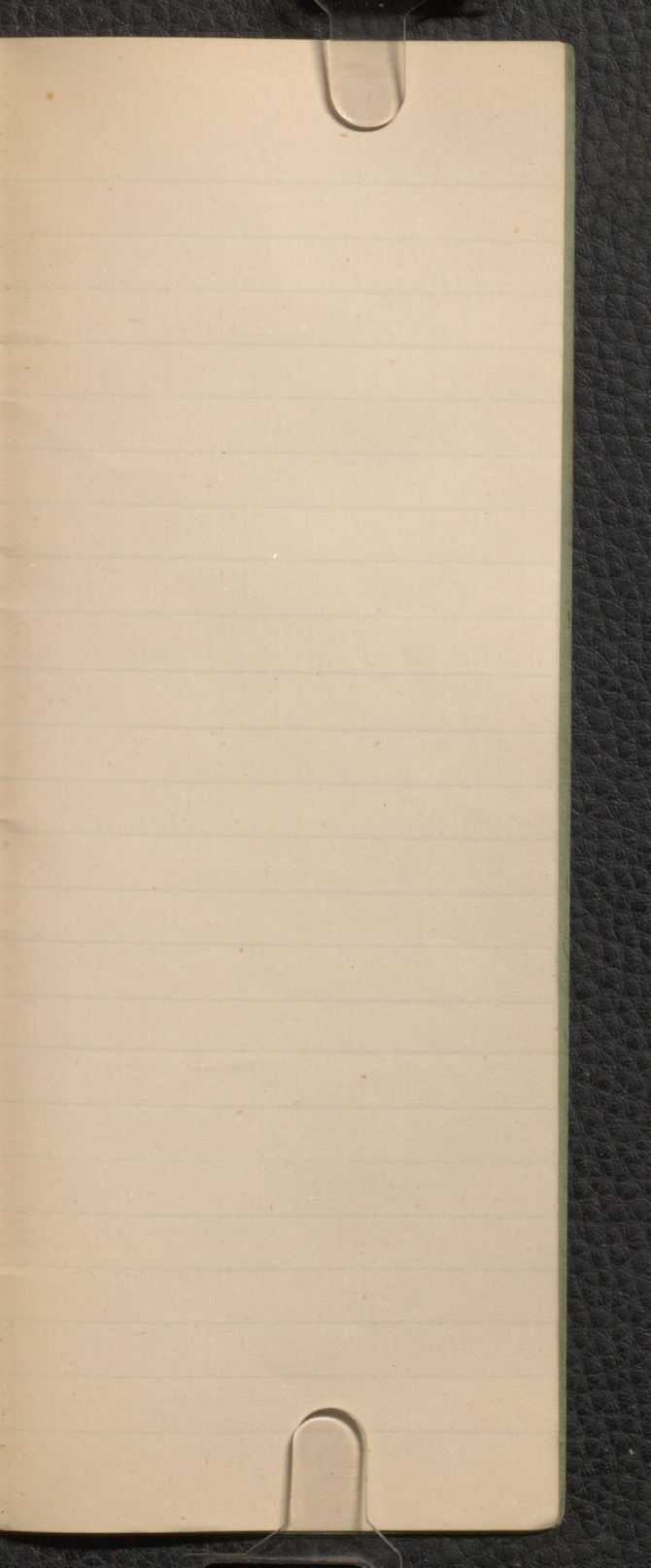


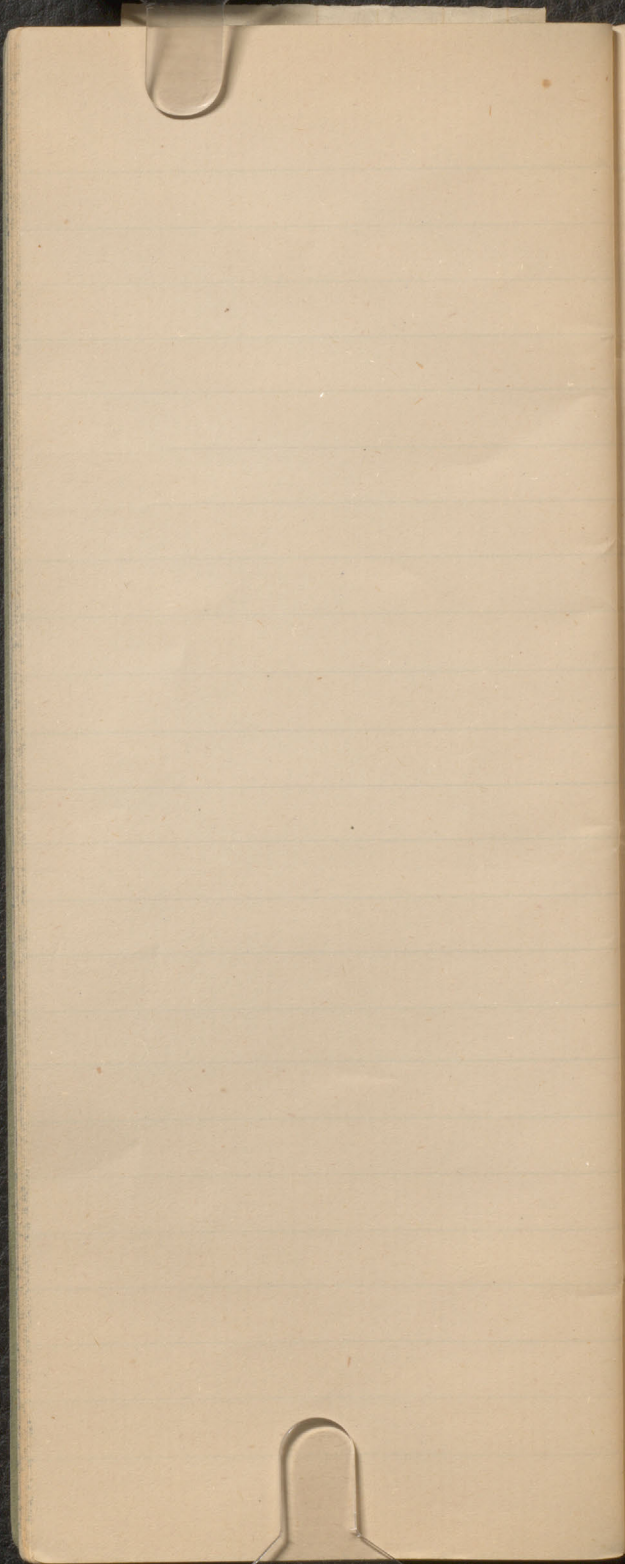


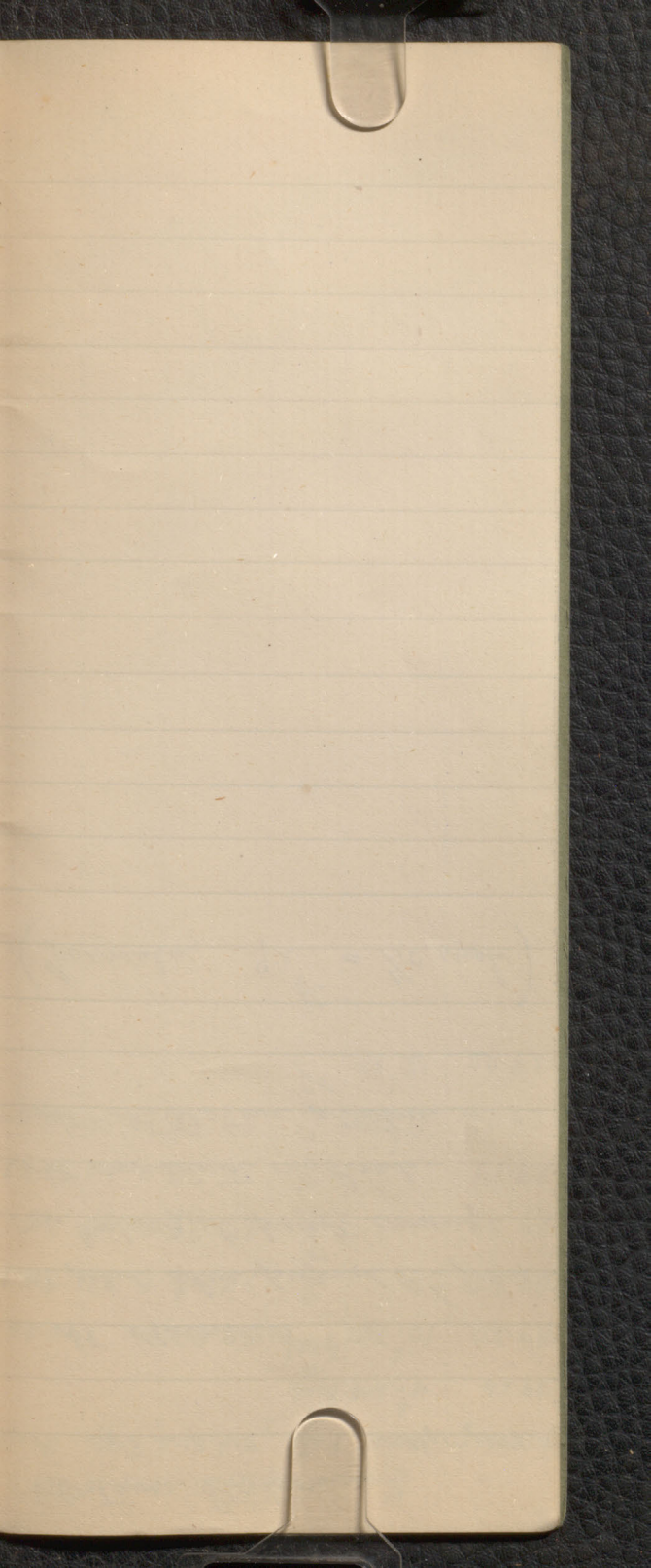












S^E Coleridge Station

Aug 10, 1877.

At Macmillan

At print where printed by Jones

On Railway at present crossing.

At summit on Road.

At S^E Coleridge Station.

(formulas, $92 \text{ ft} = \frac{1}{10} \text{ inch}$)

Reading	Hour	Rate	of	Red. Rate	Wt.	Weight
29.84	9-AM	Rate	"			
29.80	10-AM	Rate	full	29.80		000
29.42				29.42	0.37	351
29.30				29.31	0.49	451
29.19				29.20	0.60	552
29.24	11-AM			29.25	0.54	497
29.22	12-AM					

full 0.02 per hour

To from Macminders

18 60 4

2 | 246
9 | 126
6 | 13 1/5
2

115
1.4 - 25
R. A. L. 2.75
H. 05
gr. 50

