

U. S. ISSUES OF 1861-1868

Essays, proofs, specimens, issued stamps unused and used, multiples, varieties and uses

Purpose: Documenting the development of the National Bank Note Company (NBN Co.) stamps from the issues of 1861-1866 through the early grill experiments, which culminated in the 1867-1868 grilled issues. **These are the most important, complex and difficult issues in all of classic U.S. philately.**

Background: The Civil War caused the issues of 1861. The Union ordered new stamps to stop the Confederacy from selling supplies of existing stamps to finance their war efforts. A contract was put out for bids. The NBN Co. was low bidder. They had problems producing acceptable work samples in the time frames required in the contract. Design and color changes were made after the contract was signed to put all new dies under government ownership and to produce better results. These changes resulted in the much debated "Premiere Gravures." They are shown with the issued stamps.

Archival Material: Progressive die essays and trial colors of first and second designs explain the development of these issues. All values are shown as large die proofs. Plate proofs are in blocks of 4 on India paper, specimen and control numbers in singles, with representative blocks of each. The only recorded complete set of imperforates on stamp paper is shown. Referred to as presentation copies, many examples bear manuscript defacements. No more than 3-5 exist of any of the values. The 1 cent is recorded as unique.

The Issued Stamps 1861-1866: Are shown with emphasis on rare shades. Mint and used blocks of 4 of all values are shown. **Only one other such holding can exist and has never been exhibited before.** Representative fancy cancels are also displayed. Uses include rates for which each stamp was issued, stressing rare rates, routes, markings, **destinations** (in **bold**) and combination frankings.

Essays to Prevent Reuse: Documented by key examples of every type of essay tried by the company. The Post Office was concerned about loss of revenue from reuse of stamps. A new contract was up for bid for 1869. The NBN Co. tried to acquire a patent acceptable to the Post Office. They licensed patents and ran many experiments to prevent reuse. Successful grill experiments were included in the bid specifications, guaranteeing them the contract. The first experiments and patent submissions plus only recorded examples of 10 of the 12 points-up and points-down "C" grill essays are shown along with several only recorded and discovery examples of grill essays. **No comparable holding of essay material can exist.** Many items shown were not known to the Earl of Crawford or Clarence Brazier.

The Grilled Stamps of 1867-1868: The issued grills are shown following the essays that preceded each change in orientation and size. Once the contract was assured, the company focused on producing grilled stamps as quickly and inexpensively as possible. Many of the early grills are only recorded in quantities of 2-8 each. Emphasis is placed on production varieties, including continuous marginal grills, double and triple grills, quadruple split grills, inverted and fold-over grills. Uses still stress the rare rates, routes, markings, **destinations** (in **bold**) and combination frankings.

Condition and Rarity: The highest level of rarity of any U.S. issues in the best available condition. **Very rare items** are indicated in **blue**. **Expertized items** are marked **e**.

Research and Personal Study: The exhibitor is the authority with 35+ years of contributions to understanding these issues including expertizing for all the major services, catalog changes and courses taught for the American Philatelic Society. Research is pervasive.

Forerunners: the Toppan, Carpenter & Co. Submissions - Contract Holders 1851 - 1861

Completed die essays modifying previous designs on 1861 proof paper, cut to shape as usual - an attempt to retain the stamp contract.



progressive die essay, cut out corners, numerals drawn in

only recorded example

The 10 cent and 30 cent values were not modified for submission.

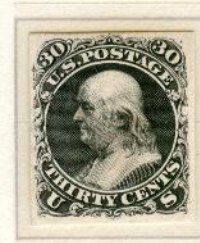
First NBN Co. Designs for Contract Submission

Die and Plate Essays

Exhibit Plan	
Title Page and Forerunners	Fr I: Pp 1 - 2
Archival Material	Fr II: Pp 3 - 16
Issued Stamps 1861-1866	Fr II: Pg 1 - Fr V: Pg 11
Essay Grills, Stamps & Uses 1867 - 68: A, C, D & Z	Fr V: Pg 12 - Fr VI: Pg 6
Later Essays to Prevent Reuse	Fr VI: Pg 7 - Fr VII: Pg 5
Production Grills & Uses 1868: E & F	Fr VII: Pg 6 - Fr VIII: Pg 11
Epilogue - Post Issue Material	Fr VIII: Pp 12 - 16



die essays on thin paper



trial color die essays on split card

finished plate essays, perforated on stamp paper, with trial cancels



plate essay
on card



plate essay on
stamp paper e



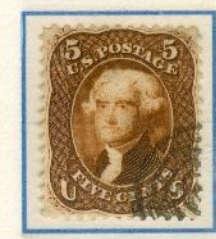
trial color
plate essay on
stamp paper



2 examples
recorded
e



3 cent decline opinion
as to contemporary
cancel e



2 examples
recorded
e

First Designs - "Premiere Gravures"



24 recorded e



35 recorded e



16 recd'd "new" e



30 recorded e



22 recorded e

The Issued 1861 Stamps - Second Designs



2 cent and 15 cent designs were added in 1863 and 1866 respectively.

e

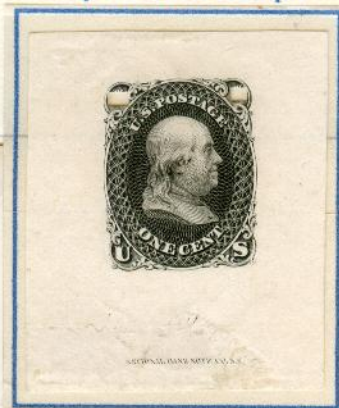
Archival Material

Large Die Essays and Proofs - 1 Cent

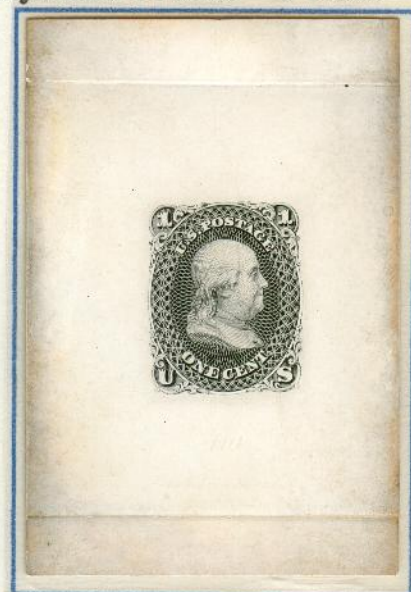
Six or Less Large Die Proofs Recorded of Each Denomination

trial color - numeral cutouts

only recorded example



issued blue



progressive die essay on glazed card

numerous lines recut or added

only recorded example

NBN Co. SPECIMENS

from salesmen's sample books



first design - only exists as a hybrid

SPECIMEN
POSTAGE STAMP
FROM FILE
NATIONAL BANK NOTE COMPANY
NO. 1 WALL STREET
NEW YORK



trial color

die I



partial scan of cover dated Nov. 2, 1863

trial color plate proofs on India paper - trial cancel of
Washington, DC - confirmed by scan of cover above



SPECIMEN
POSTAGE STAMP
FROM THE
NATIONAL BANK NOTE COMPANY
110-1 WALL STREET
NEW YORK

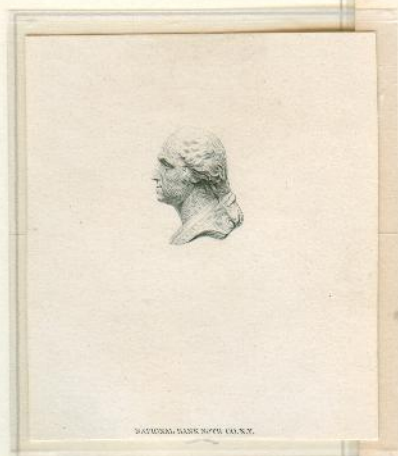
stage 2

no scrollwork or ornaments on 3's or U and S



stage 1

head only



stage 3
finished
first design
die essay



stage 4
scrollwork is almost
completely removed
ornaments on 3's, U and S remain
only recorded working example



stage 5
additional frame
ornamentation
discovery example

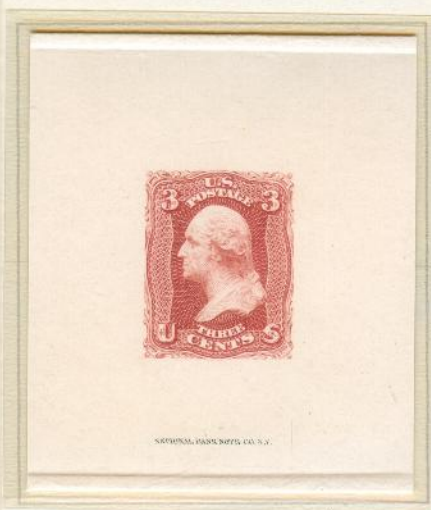


stage 6
completed large die
trial color proof





trial color large die on glazed card
only recorded example



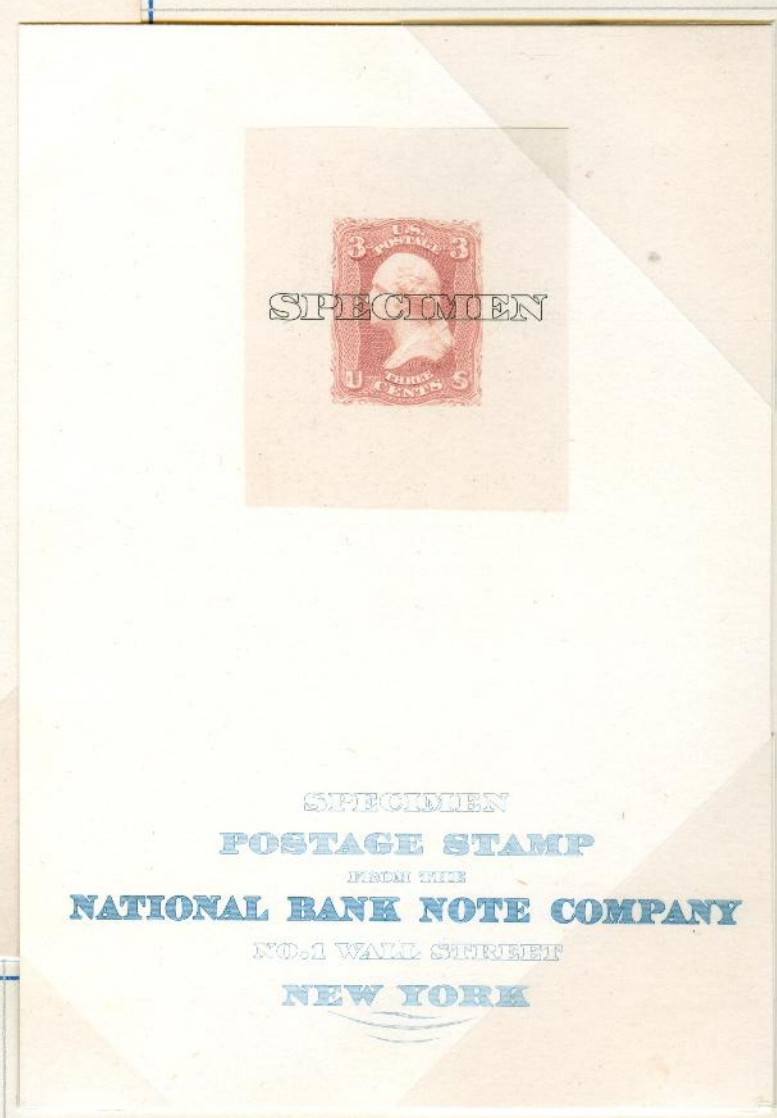
issued rose



scarlet trial color
3 examples recorded



manuscript "Specimen"
one of each denomination recorded
National Bank Note Company embossing





first design progressive die essay
only recorded example



first design trial color die
essay - trimmed



issued brown



trial color for issued red brown shade



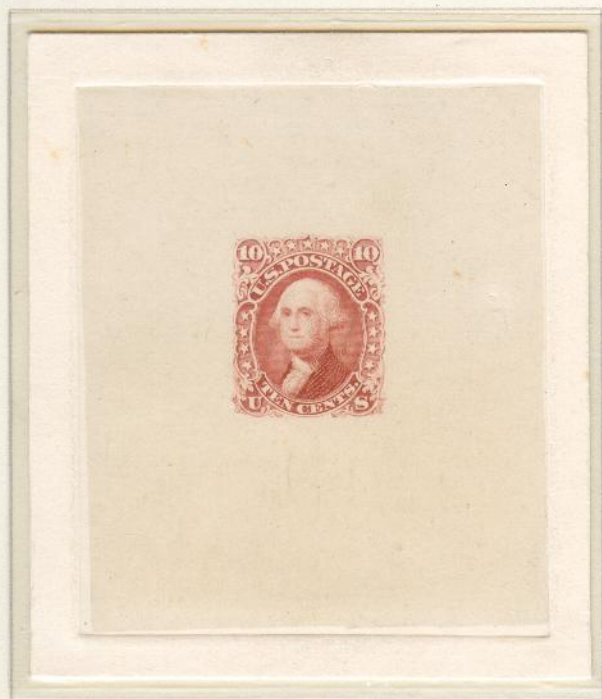
SPECIMEN
POSTAGE STAMP
FROM THE
NATIONAL BANK NOTE COMPANY
170-1 WALL STREET
NEW YORK



first design progressive die essay
two recorded examples



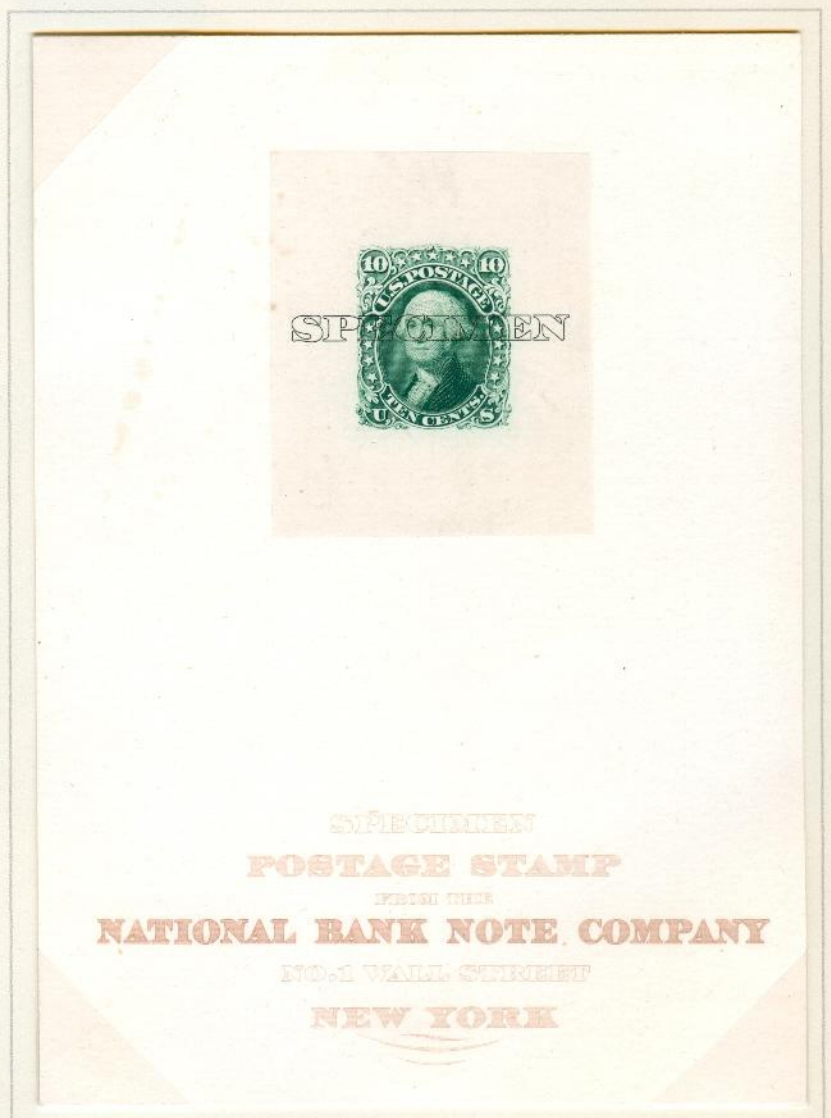
trial color



trial color



issued green





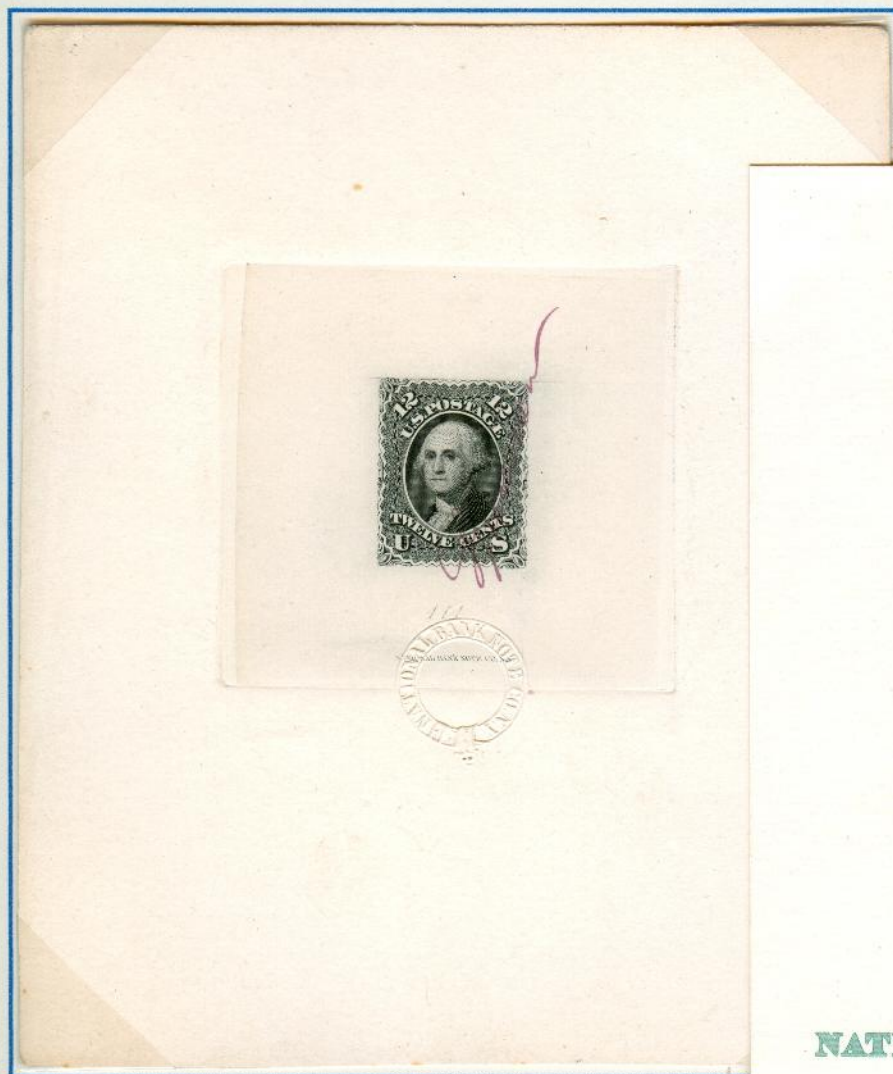
first design
trial color die essay



trial color

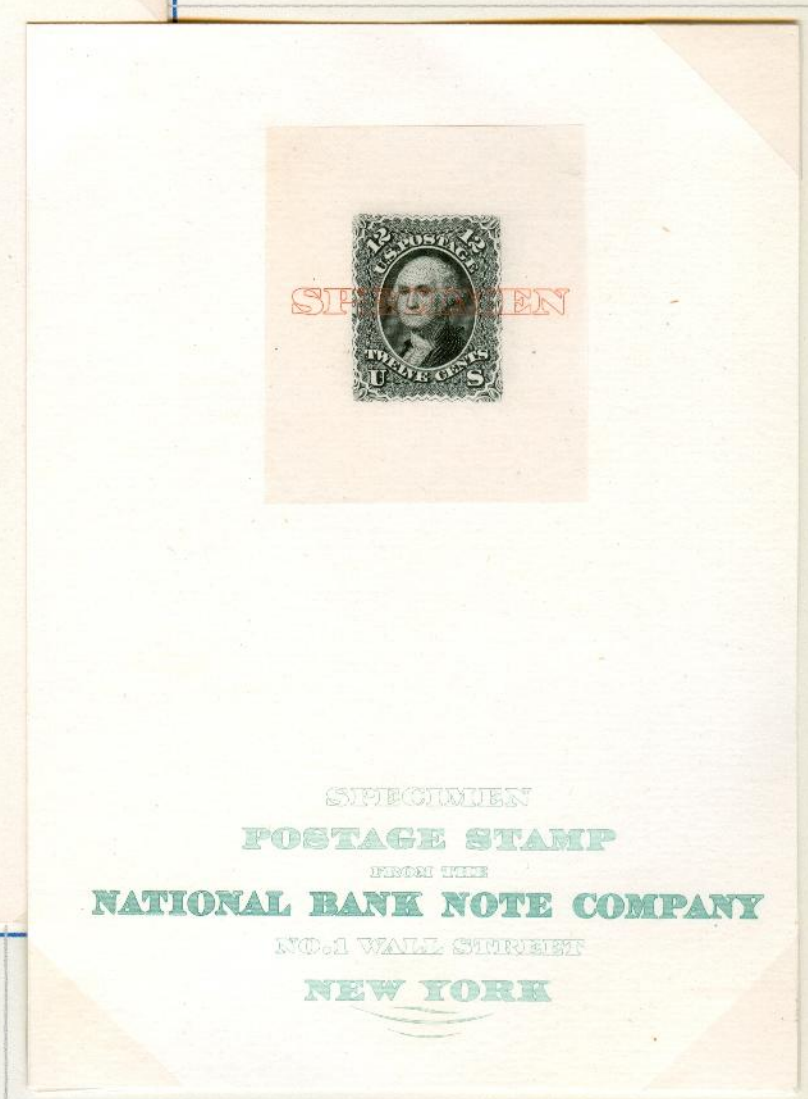


issued black



manuscript "Specimen"

one of each denomination recorded
National Bank Note Company embossing

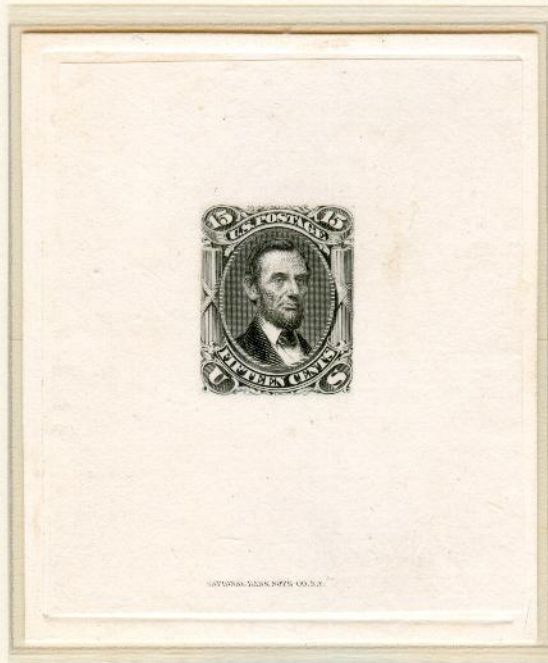


Archival Material

Large Die Proofs - 15 Cent
Issued in 1866 – no design changes



trial color plate proof
forehead flaw



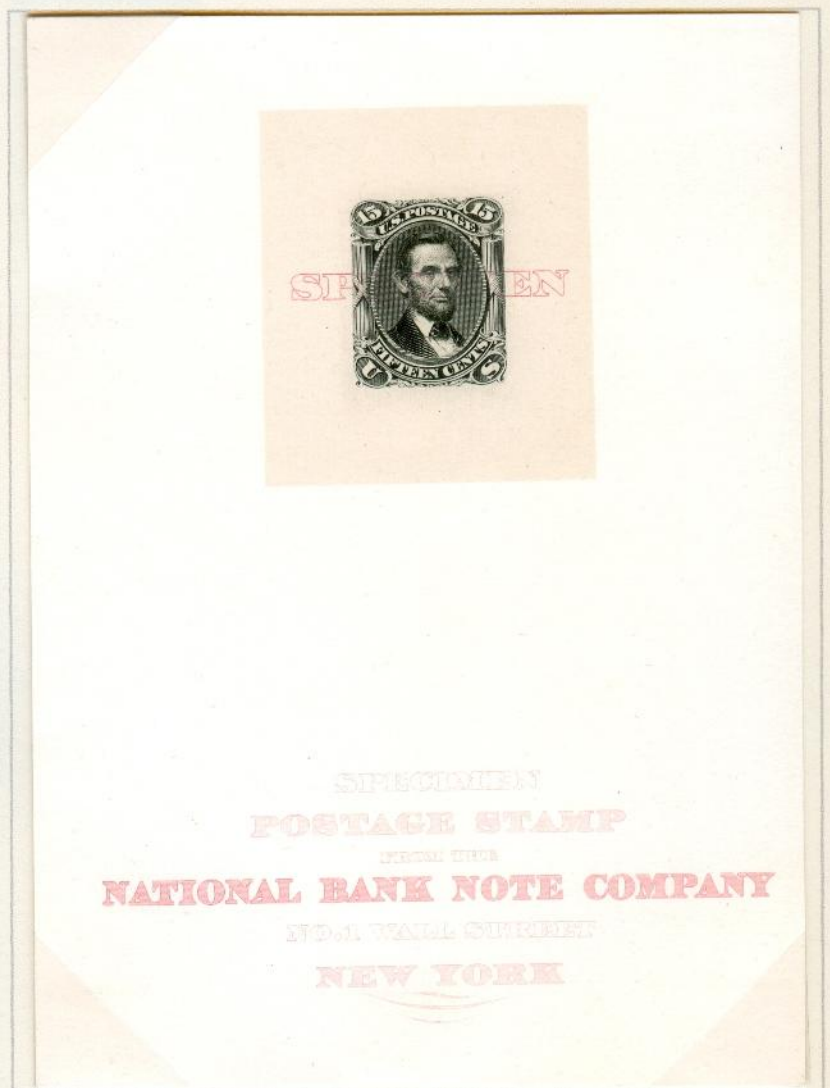
issued black



trial color plate proof
trial cancel



trial color



Archival Material

Large Die Proofs - 24 Cent
No design changes - color change only



orange yellow



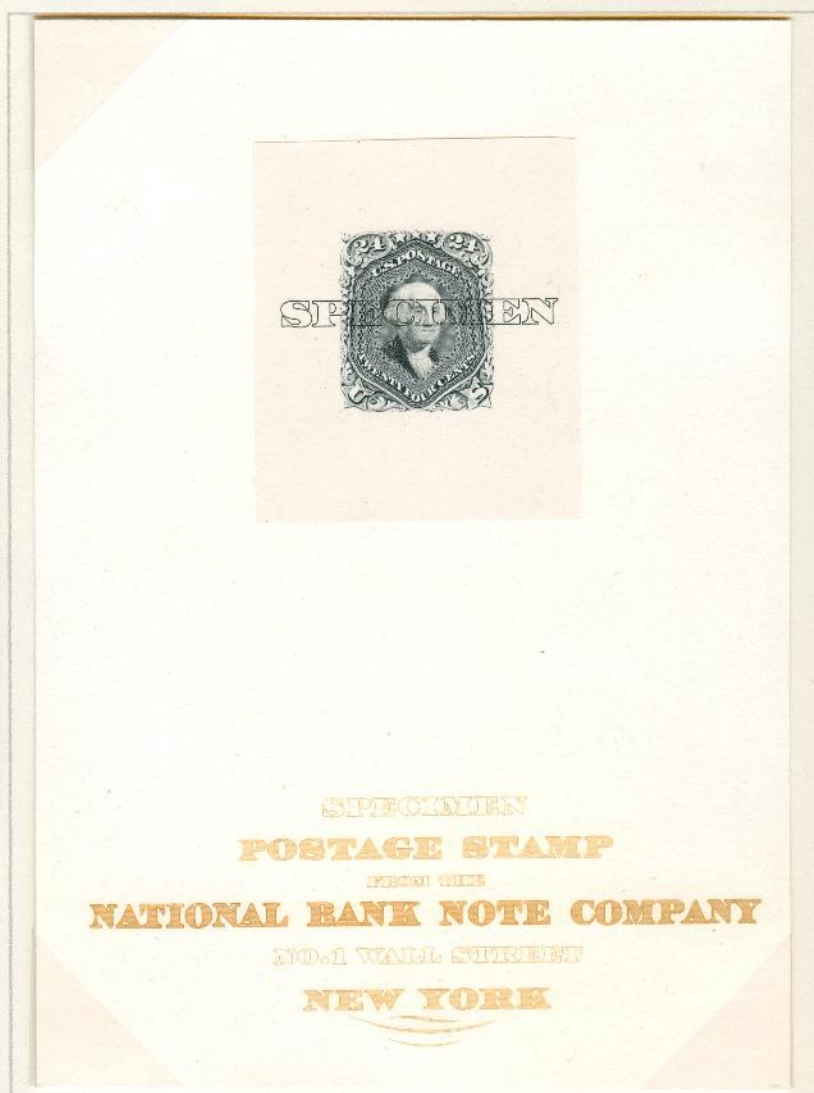
red violet
India paper
discovery example e



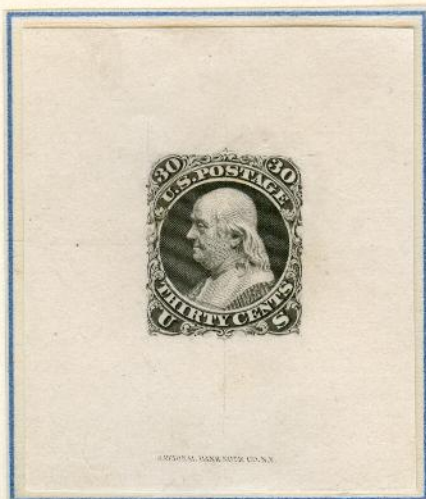
gray



issued red lilac



Archival Material



first design progressive die essay
pencil suggestion of additional dot UR
only recorded example



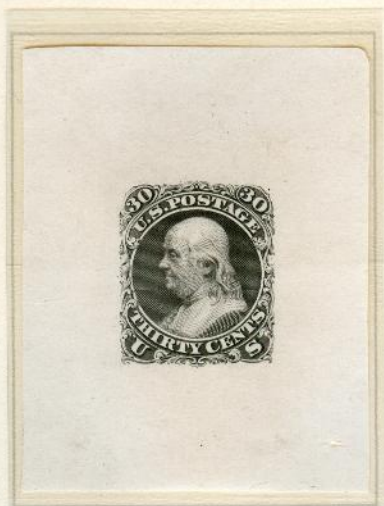
color of "Premiere Gravure"



issued orange



blue trial color
plate proof on card



black trial color



lemon yellow



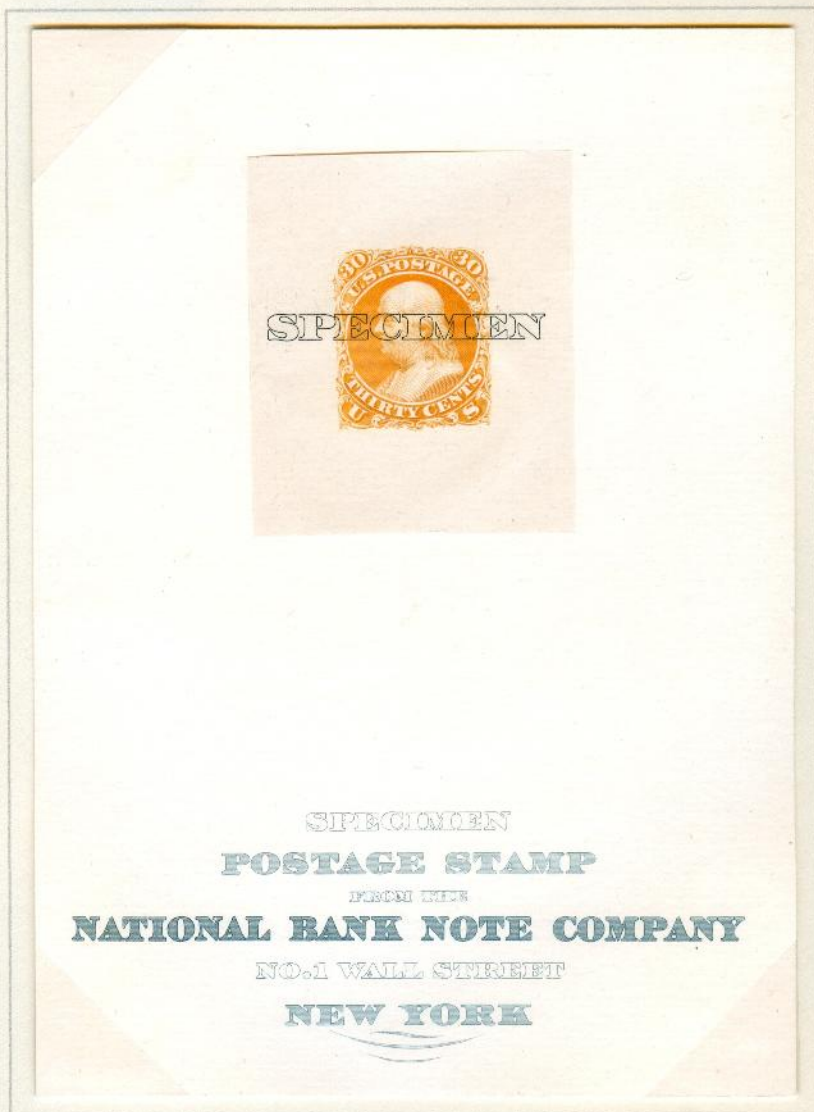
deep red orange



blue trial color

Large Die Essays and Proofs - 30 Cent

No design changes - color change only

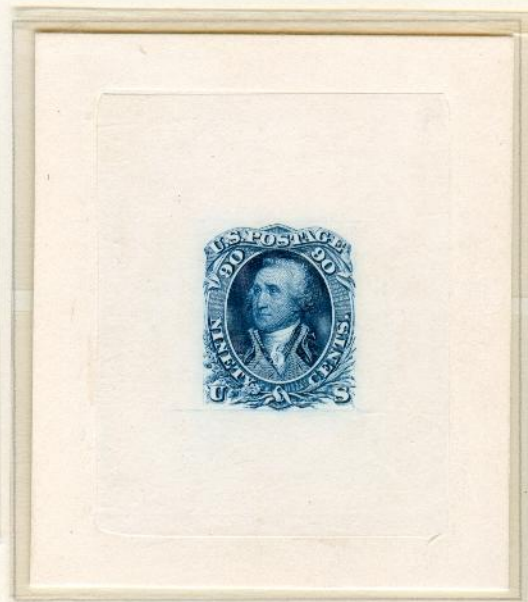




first design trial color die essay



red brown trial color



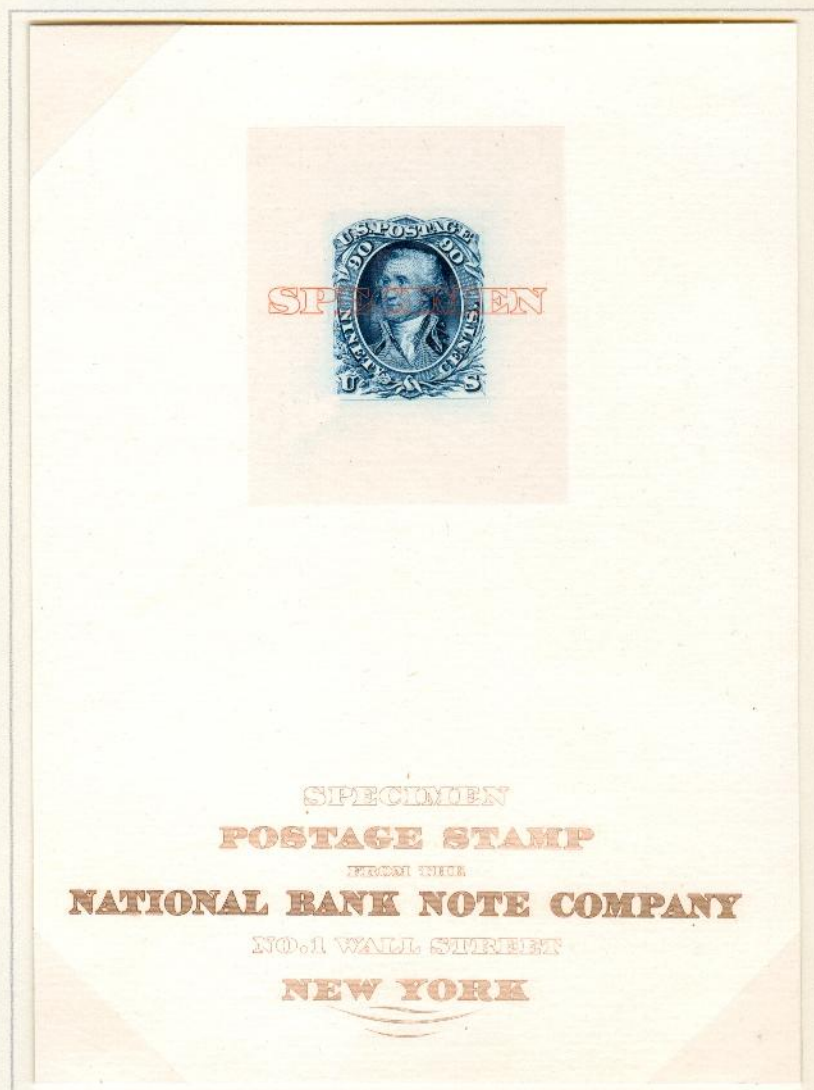
issued blue



first design trial color die essay

dim dusky blue

Brazer classification



Only 2 complete sets of blocks could be formed

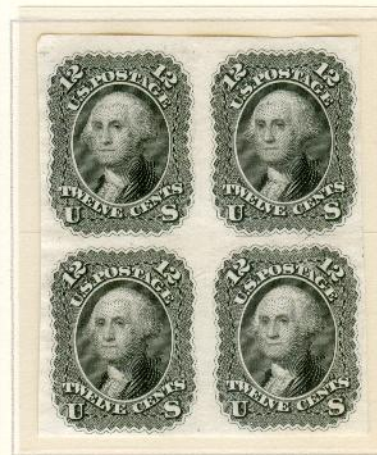


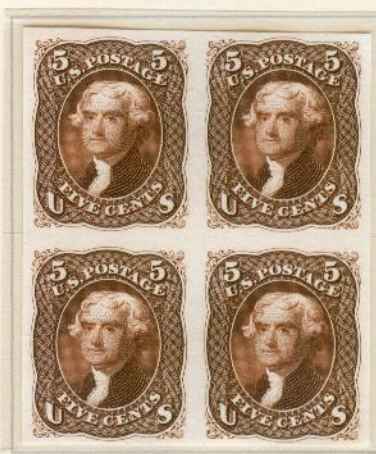
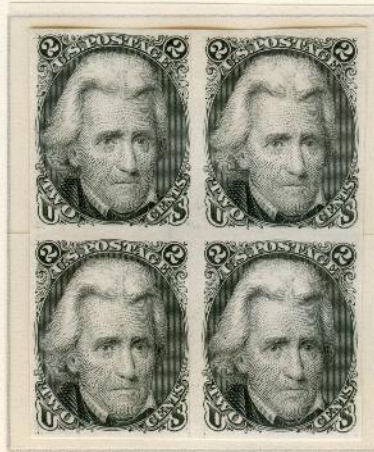
indigo



ultramarine

1 cent ultramarine plate block is the only
recorded example





lake

scarlet



Specimen Type B



the 12 cent is
always faint



Type A

Type B



The control numbers were prepared just prior to the issuance of the 15 cent value. **Only one half pane of each value was overprinted using bond coupon numbering machines.** Recent research shows that blocks of 40 of each denomination, sold in the auction of the Mandel holdings, are the source of most recorded examples. 41 examples of the 2 cent are recorded.

Unused Issued Designs

Major Shades and Imperf Varieties

200 subject plates, 2 panes of 100 (10x10), perf 12, vertical straightedges and dividing lines between panes



Imperf varieties - manuscript defaced stamps are called presentation copies - no production records known



The only recorded complete set. e

Efforts to Overcome Coinage Shortage Resulting From Depreciated Paper Currency

Encased postage - patented by John Gault, August 12, 1862 - merchant's ads on reverse



Ayer's
Sarsaparilla

Norris
News Books

Ayer's
Sarsaparilla

Tremont
House

Burnett's
Extracts



Kirkpatrick
& Gault



Kirkpatrick
& Gault



Kirkpatrick
& Gault



J.
Gault

the 2 cent was never placed in service and use ceased prior to the issuance of the 15 cent

Postage currency - receivable for postage stamps - act approved July 17, 1862



One Cent Value: EDU August 17, 1861



blue



pale blue



bright blue



dark blue



ultramarine



near indigo



dry printing



Ballston, NY
skull & crossbones



Rockford, IL
bluebird



preprinting
paper crease



horizontally laid paper e



vertically laid
paper



AUG 21, 1861 e



5 point star



straddle pane
dividing line



radical
perf shift



inking flaw



overall double
transfer

One Cent Value

Trial Color Proofs, Envelope Essays, Domestic Uses



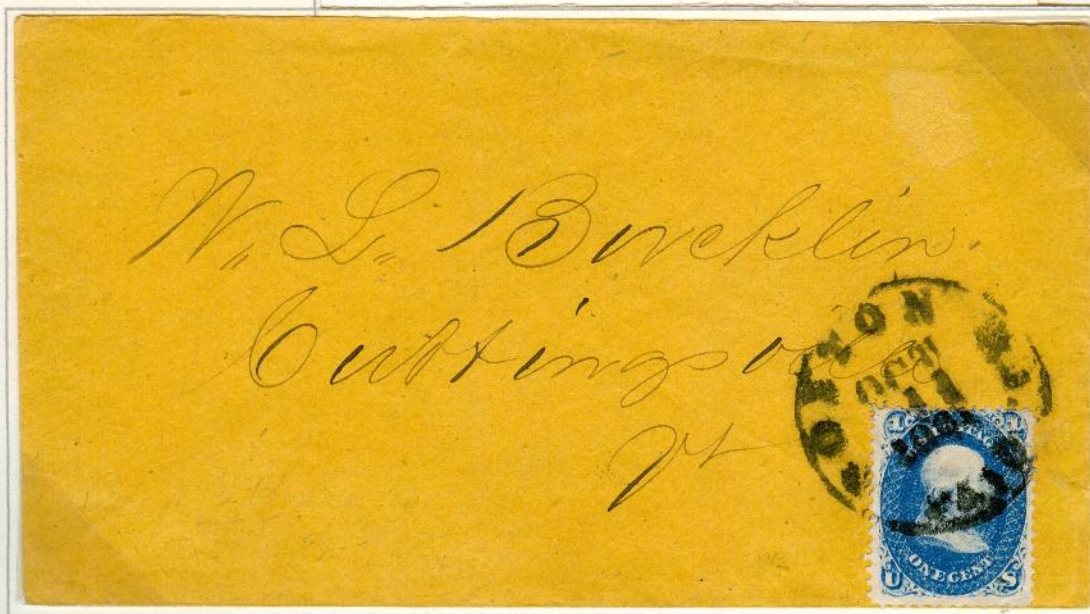
small die trial color proofs – the mustard color is previously unrecorded – black is also recorded – **the only recorded examples**

1 cent envelope essays

3 of 5 recorded examples

all different color

combinations



ultramarine

1 cent unsealed

circular rate e

3 cents per 1/2 oz.

domestic rate via

Overland Mail Co.

had been 10 cent rate prior

to reduction for route



One Cent Value

Domestic Uses

pale blue

1 cent unsealed circular

Harvard College notice

about library committee

ex Emerson



1 cent drop letter

Waterbury "Padlock"

used 12/20/67 - 1/6/68

latest recorded use

10 or fewer recorded

2 x 3 cent domestic rate

underpaid 3 cents

Leominster, MA postage due

provisionals applied

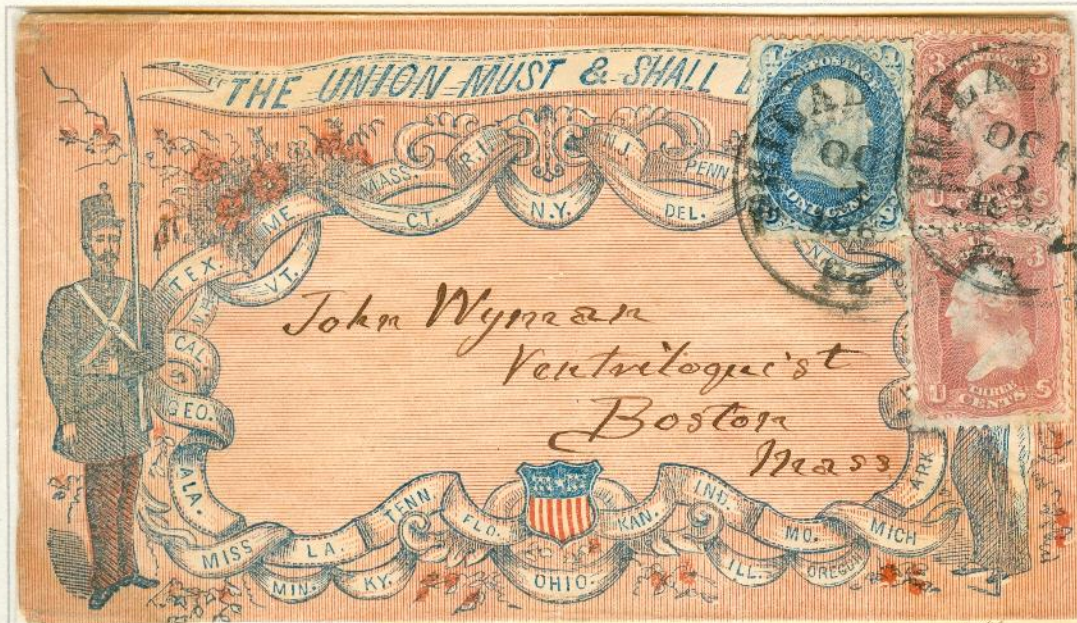
3 cents due for weight

6 cents due for forwarding

only recorded combination

with 1 cent value





1 cent carrier pickup plus
2 x 3 cents per 1/2 oz.
domestic rate e

1 cent carrier pickup plus
2 x 5 cents per 1/2 oz. via
British packet to Bahamas,
2/59 - 3/68

Messrs H. Adderly & Co.
Nassau St. P.
Bahama Isles



Chicago branch rate
prior to July 1, 1863

less than twenty recorded

supplementary mail
late dispatch for
Eastbound trains
3 cent fee paid in cash

three recorded
with this franking



One Cent Value

Domestic and International Destinations

2 cent circular rate

via Hamburg

"PAID ALL"

to Norway



Union Volunteer Refreshment

Saloon & Hospital patriotic

1 cent carrier pickup + 3

cent per 1/2 oz. domestic rate

e

order to pay on sight

2 cents per \$100

illegal revenue use



One Cent Value

International Destinations

American Packet

to **Panama**

British Packet

to **Ecuador**

34 cents per 1/2 oz.

12/56 – 3/70

signed Stanley B. Ashbrook



British Open Mail

to **St. Pierre & Miquelon**

British Packet

5 cents per 1/2 oz.

start date unrecorded - 1/68

7 covers recorded e

2 cent printed
circular rate
via **France**,
Thurn & Taxis
to **Bremen**



Two Cent Value: EDU July 1, 1863

Prepays new drop letter rate with carrier service



black



gray black



intense black



multiple paper creases

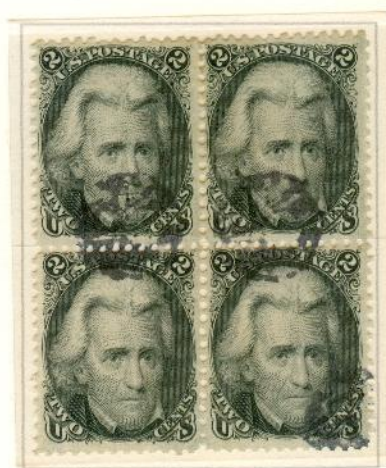


Preston shift - pos 81R



Atherton shift e

always has straight edge at L



double perfs



e



radical
perf shift



green



ORDERS RECEIVED IN CASE OF SICKNESS ONLY.

Dated, *Pittsburg* Nov 30 1863

John D. Eliot, Paymaster,

For value received, please pay *J. Haskins*
 the amount due me from the New York Central Rail Road Company, for services rendered said
 Company as *Engineer* in the Month of *November* 1863
 and this shall be your receipt in full.

order to pay on sight

2 cent flat rate

illegal revenue use

The person giving this Order cannot write, he must make his Mark and have two Witnesses to the same.

2 cent domestic
newspaper rate

Miss Emma Spencer
Box 4001 Chicago Ill

2 cent domestic printed matter rates

Dec 13 1863

Printed Matter

Rw. W. R. Williams D. D.
No 27 Grove Street
New York

Blakemore
gersville
Augusta Ga

bootlegged from

Sonsonate, El Salvador

domestic drop letter rate

carrier service available

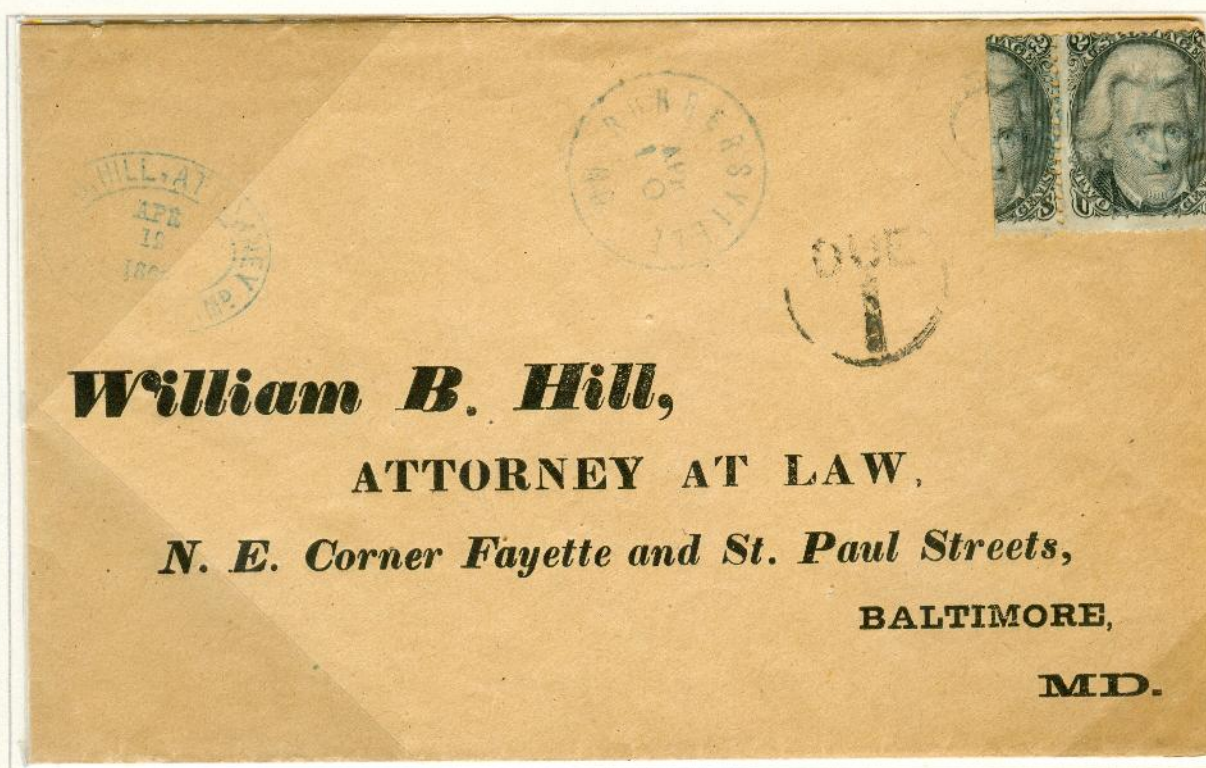


rejected bisect—DUE/1

attempt to prepay 3 cent domestic rate

penalty only applied to 1 cent shortage

rejected 2 cent bisects are rarely encountered e



Two Cent Value

Domestic Seed Packet and Circular Rates

seed packet, 4 cents

over 4 oz. but less

than 8 oz.

only recorded use



& BRO., Nevada, O.

NG PAY?

pital invested than any other

which cannot fail to command

are of five hundred swarms,
nies. What branch of agri-
taking, by his own labor, over
nt-Office Report.

n one hundred to four hun-
5 00 to \$25 00 per swarm.



AGENTS T. O. ADDRESS.
E. F. ELLIOTT, Seal, O.
C. C. CAMPBELL, " "

For the New England States.
J. A. ROOT, East Canaan, Ct.

On the blank below, we stamp the
P. O., address of agents or owners of
territory, &c We furnish Circulars
at \$1.50 per hundred.

THE AMERICAN SIDE-OPENING, MOVABLE-COMB BEE-HIVE!

Secured by Letters Patent of the United States, November 24, 1863, to H. A. KING & BRO. NEVADA, O. Terms to Agents and for Territory, fifty per cent. more liberal than (has formerly been offered) for any other leading hive. We invite the attention of Editors, Ministers of the Gospel and Bee-keepers to our liberal offers for first introduction. Also, the attention of joiners, cabinetmakers, clerks, and those who have traveled, selling fruit trees, books or farm implements, to the liberal commission offered. Circulars for Bee management sent free on application.



KINGS' TEXT-BOOK,
FOR BEE-KEEPERS,

OR,
FACTS IN BEE-KEEPING,
With Alphabetical Index.

Being a complete Reference-Book on
all practical subjects connected with
the culture of the Honey Bee. See ex-
tended notice in circular. Bound in
Cloth, 50 Cents; in paper covers, 30
cents. Liberal discount to agents and
to the trade.

[From Rev. Geo. Bender.]
UPPER SANDUSKY, Dec. 14, 1863.

REV. H. A. KING: I take pleasure in
testifying to your improvements in the
culture of the honey bee. Your "Text-
Book for Bee-keepers" will be a valu-
able aid in this branch of industry. The
"American Bee-Hive" has been used
extensively in this region, yet, in all
my acquaintance, I know of no place
where it is not giving excellent satis-
faction. I hope you will soon finish
your "Text-Book" for schools, ("The
natural method of teaching children to
read,") and as you are prevented at
present from public speaking, by the
bronchial affection, you should not
longer neglect the "little folks."

GEO. BENDER.

VIETS & SAVAGE, PRINTERS, CLEVELAND, O.

A. C. Candler
New Gloucester
Maine

4 x 2 cent rate
for up to 3
circulars,
served as the
"cover" for a
bundle of 10 to
12 circulars

Two Cent Value

International Destinations

Bremen-Hamburg mail
to **Portugal**
42 cents 1/2 to 1 oz.
7/57 - 2/67



24 cent blackish violet



Prussian closed mail
to **Wurttemberg**
28 cents per 1/2 oz.
9/61 to 1/68

Prussian closed mail
to **Germany**
4 x 28 cents per 1/2 oz.
9/61 to 1/68



Three Cent Value: EDU August 17, 1861



pink

no more than 5 blocks recorded e



rose plate block



rose pink



deep brown red



lake e



imperf lake e



issued lake
per Roy White



imperf rose



pale brown rose



imperf rose lake e



imperf rose lake plate block

Three Cent Value: EDU August 17, 1861



pigeon blood pink e



pink



rose pink



rose



bright rose



rose red



double impression e



horizontally laid paper e



horizontally laid paper



stitch watermark



printed on both sides e

Unissued scarlet trial color proofs, obtained improperly by J. W. Scott and sold as issued stamps.



imperf approval of color
initials of James McDonough



imperf scarlet e



unused scarlet e



canceled at
Station D



canceled at
main P.O.



pen stroke defacement e

To fill orders for canceled stamps, J. W. Scott mailed scarlets to himself from Station D, near his office. **One is recorded with the main P.O. cancel**, near an earlier office. All bear cancels of the 1878-80s period. Pen stroke defaced remainders were traded by the Post Office to C. F. Rothfuchs, a prominent Washington D.C. dealer, for help and stamps given to the Columbian Expo of 1893.



imperf horizontally



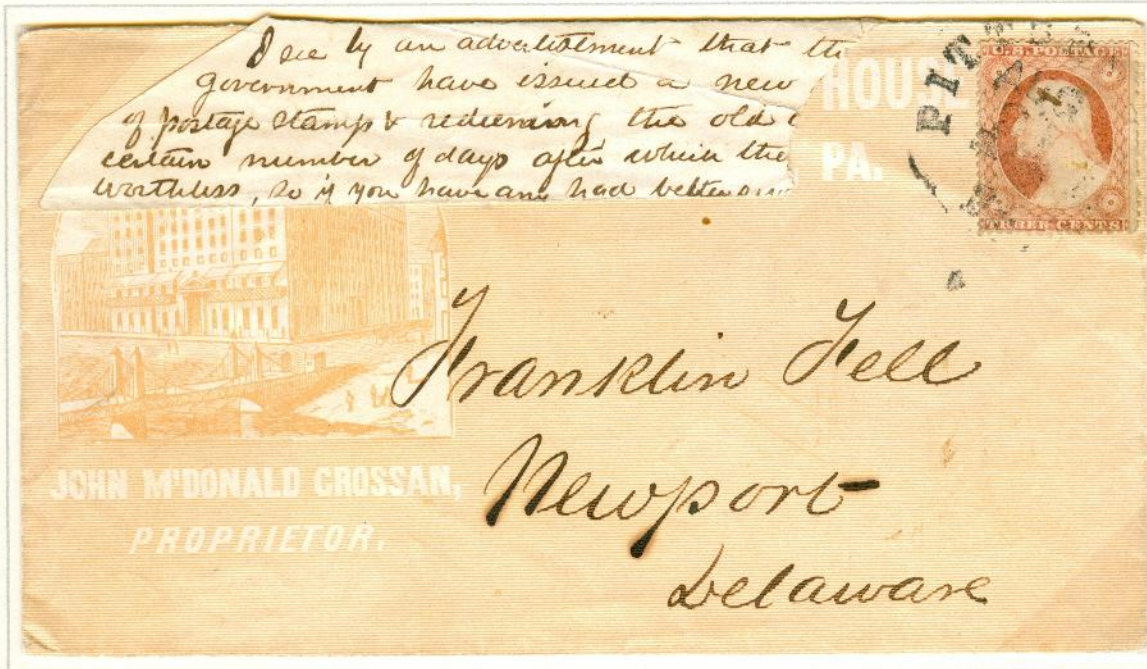
imperf horizontally



radical perf shift



pre-printing
paper crease



"I can see by an advertisement that the government have issued a new (set) of postage stamps & (are) redeeming the old (ones for a) certain number of days after which the(y are) worthless, so if you have any had better sur (e use them up.)"

"HELD FOR / POSTAGE"

marking partially drawn in

"old stamp, not recognized."



"Held for Postage"

"Old Stamped/Envelopes"

Three Cent Value

Envelope Essays and Domestic Uses

from the

NATIONAL BANK NOTE COMPANY,
No. 1 Wall St. N. Y.

envelope essays

one of each recorded



Miss Mary L. Reed
Burlington Flats
N.Y.

3 cent domestic rate
pigeon blood pink e

pink

New Orleans to NYC
via Adams Express

last day of
through the lines use

e



Mr. Robert Williams
New York

Three Cent Value
Express Company Uses

package paste-up from
Victoria, V.I. to San Jose, CA
 10 cents per 1/2 oz. over 3,000
 miles before July 1, 1863
stamps applied in Canada
 carried by Wells Fargo



*E. P. Reed Esq
 San Jose
 Cal*

envelope paste-up from
 Gold Hill, Nevada Territory
via Wells Fargo
 3 cent rose paying second rate
 with pair of 25 cent blue
Pony Express adhesives
 3 such frankings recorded



*San Jose
 Cal*



*San Jose
 Cal
 for each stamp
 25 cents each
 50 cents each
 75 cents each
 1 dollar each*

*Ingalsby Esq
 Merchant St
 San Francisco
 Cal*

Domestic Uses

LANGTON'S
PAID
PIONEER EXPRESS

3 CENTS
WASHINGTON
3

CAMPTON

UNITED STATES
3
THREE CENTS

Mrs Hannah Green,
San Francisco
Cal.

WELLS, FARGO & CO'S
EXPRESS
FROM
LAYSVILLE





H. Pace ~~18th St.,~~
 Prisoner of War
 Prison No. 5 3d, Floor
 Danville Va.
 In care of Gen. Winder

[illegible]

Prussian closed mail
to Norway
38 cents per 1/2 oz.
11/65 - 1/68



Bremen mail to Trieste,
Imperial Free City
of Austrian Littoral
15 cents per 1/2 oz.
8/53 - 1/68

British mail
to Liberia
33 cents per 1/2 oz.
6/55 - 1/68

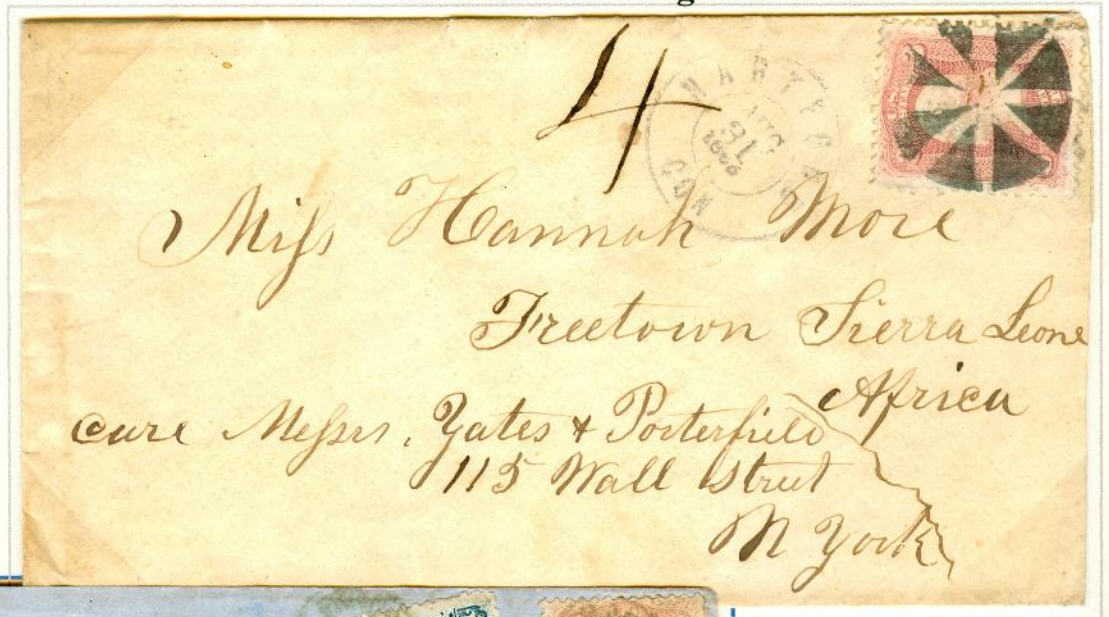
restored



Three Cent Value

International Originations and Destinations

3 cent domestic rate
forwarded to **Sierra Leone**
unpaid - due 4 shillings



"FRANCO EN MONTERREY"

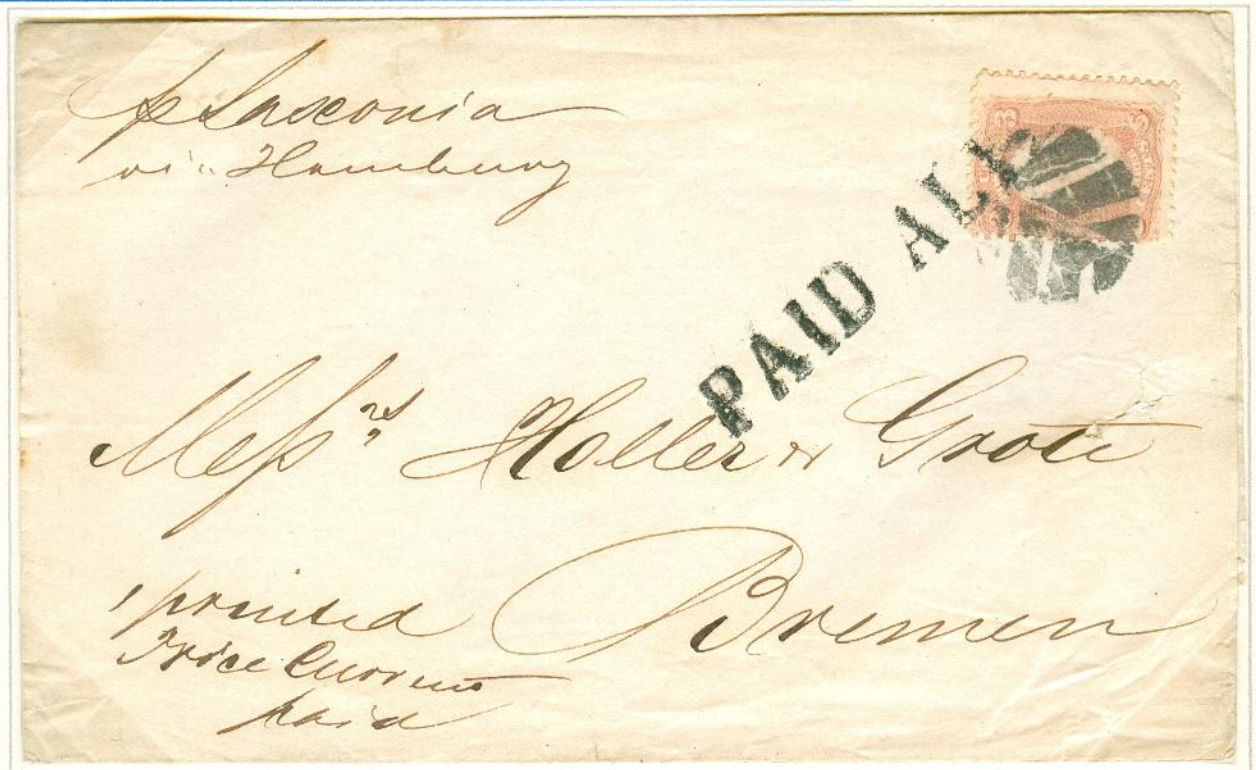
"14 SET. 77"

25 centavos to US plus

3 cent domestic rate

prepaid in Mexico e

3 cent circular rate
to **Bremen** via
Hamburg
2 cents + 1 cent for
transit between cities



Five Cent Value: EDU August 19, 1861



brownish buff



buff



buff



brown yellow



olive yellow



double transfer at B e



red brown



dark red brown



brown



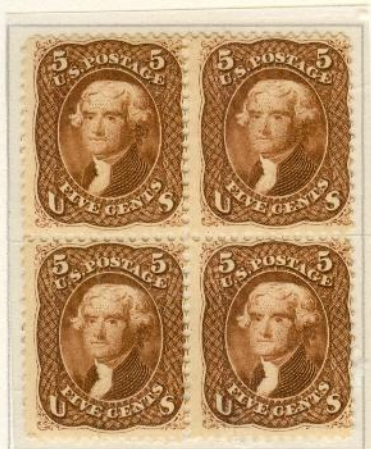
dark brown



black brown



pale brown



red brown – 2 unused blocks recorded



buff – 3 used blocks recorded

defective unused block recorded



red brown – 2 used blocks recorded



brown



"FORWARDED BY / U. S. CONSUL. /

Kanagawa, Japan."



brown



express cx'1 "WELLS" (FARGO)



San Francisco cogwheel cancels



illegal revenue use

Five Cent Value

Domestic Rates and Uses

brown yellow

3 cent domestic rate

+ 2 cents ship fee e



red brown

2 x 10 cent domestic rate over 3,000 miles

prior to July 1, 1863

largest recorded on cover multiple

brown

domestic rate plus

15 cent registry fee of 1/1/69

prepayment by stamps started

in 1/1/67 with the start of the

20 cent registry fee



Mr. Michael Craft deceased
N to Gordon & Bauvard

1867
June 10th To Cash \$10.00

Interest 50

10.50

Probate 25
stamps 5

10.80

Received Payment by Hon. Judge
Gordon & Bauvard



scan from reverse

Gordon and
Bauvard
account
\$10.80

buff - 5 certificate rate

after March 3, 1863

illegal revenue use

2 examples recorded

State of Ohio Aug 14th 1868
Personally appeared this Michael
and made oath that the above
account is just Michael

Sworn to & Subscribed before me
this 10th April A.D., 1868
J. L. Sawyer, J.P.

buff on piece

7 x 3 cent

domestic rate



Five Cent Value

International & Revenue

brown yellow

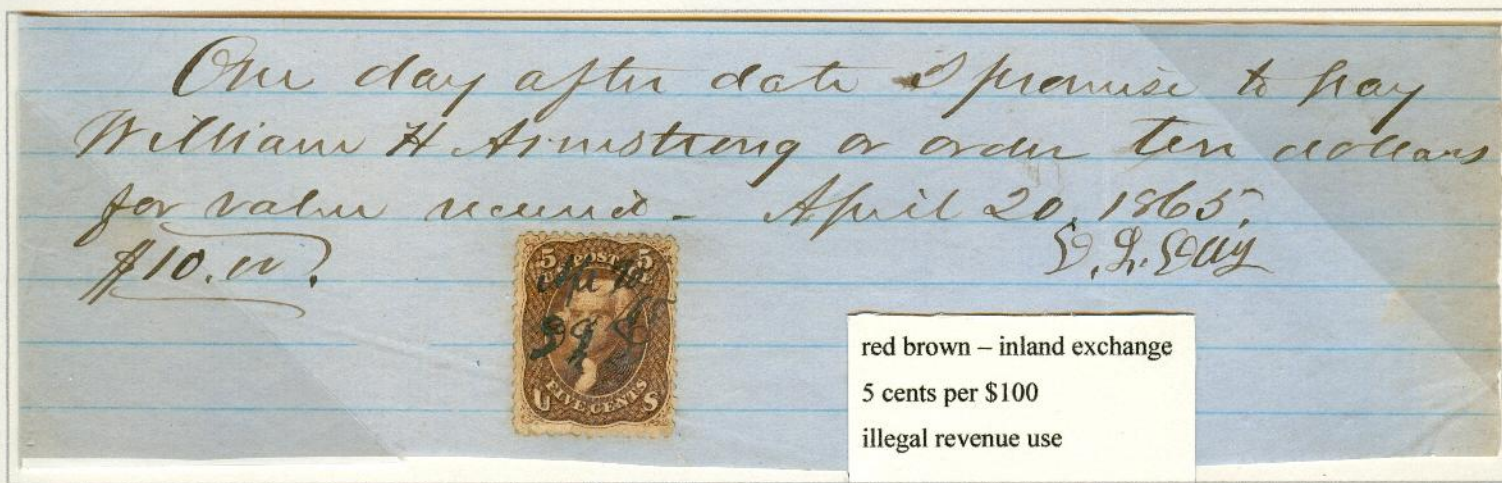
British packet from Boston

via Halifax to Nova Scotia

5 cents per 1/2 oz. 53-54 - 1/68



brown: **mixed franking** - from Hawaii
via San Francisco: 3 cents per 1/2 oz.
plus 2 cent ship letter fee 7/63 - 9/64



red brown - inland exchange
5 cents per \$100
illegal revenue use

Administrator's Notice.

NOTICE is hereby given, that the undersigned have been appointed and qualified as Administrators of the Estate of Andrew Shaeffer, deceased. All persons having claims against said estate will present them legally authenticated, within one year, and all who are indebted, will make immediate payment.
ISRAEL SHAEFFER,
ANDREW SHAEFFER.

Oct. 15-28 3w

The State of Ohio, Fairfield County, ss:

J. M. SUTPHEN, one of the Publishers of the "Lancaster Gazette," a newspaper printed, and of general circulation, in the county aforesaid, makes oath and says, that the annexed advertisement was published in said paper for 3 consecutive weeks, commencing on the 14 day of October A. D. 1863

Sworn to and subscribed before me, this 31 day of Dec. A. D. 1863

Jepe Seaburn
Pro. Judge

brown

5 cent certificate rate

illegal revenue use



Five Cent Value

International Destinations

British open mail - British packet - 5 cents per 1/2 oz. - paying only U. S. postage - first three covers



red brown
buff
to India
7/56 -1/68



brown
to Netherlands
7/49 - 1/68

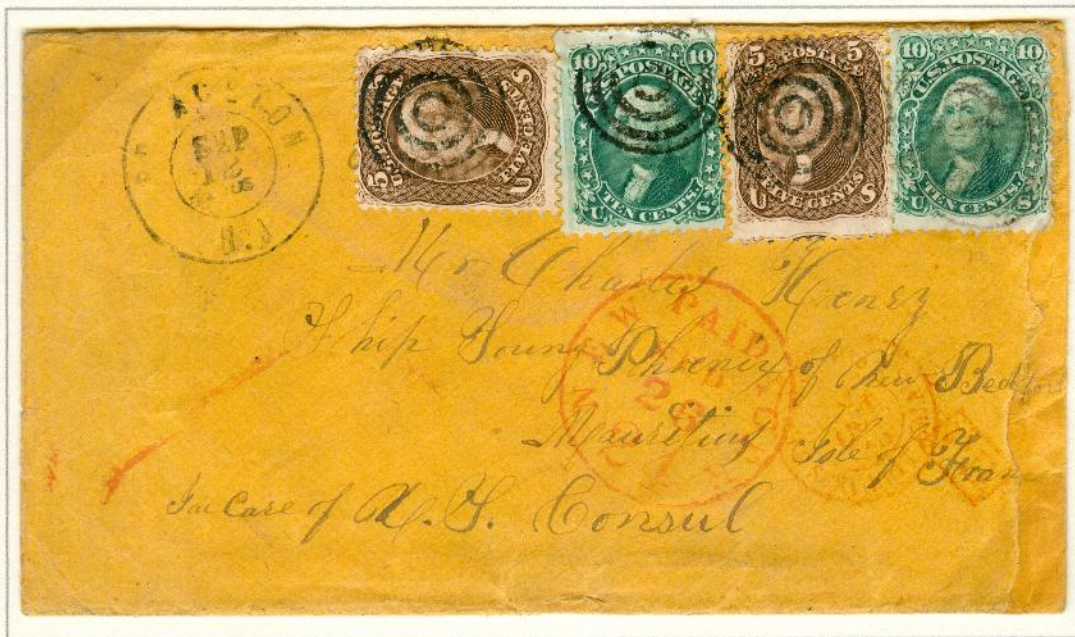


brown
British mail
via Marseilles
to **New Zealand** e
45 cents : 1/4 - 1/2 oz.
10/58 - 1/68

Five Cent Value

International Destinations

British Packet to
Prince Edward Island
 10 cents per 1/2 oz.
 7/51 - 1/68 treaty rate
 300 - 3000 miles



French mail to
Mauritius
 30 cents per 1/4 oz.
 4/57 - 1/70
 restored

brown
 29 cent West Coast rate
 (over 3000 miles)
 to **Great Britain**
 from Victoria, B. C.
 Canadian postage
 paid in cash



Ten Cent Value: EDU August 20, 1861



first designs

yellow green

deep yellow green

green

dark green

blue green

EDU September 20, 1861



imperforate horizontally
3 examples recorded e
repaired



plate scratch UL



short transfer UR



\$2.24 likely paying 8 times the 28 cent Prussian closed mail rate per 1/2 oz. : 9/61-1/68



double & triple transfers, same positions



plate bruises at left



dry print at right



slip print



Brattleboro, VT star



flag & union



Wala Wala, WA Terr



Philadelphia cds pair



French maritime anchor

Ten Cent Value

International Destinations

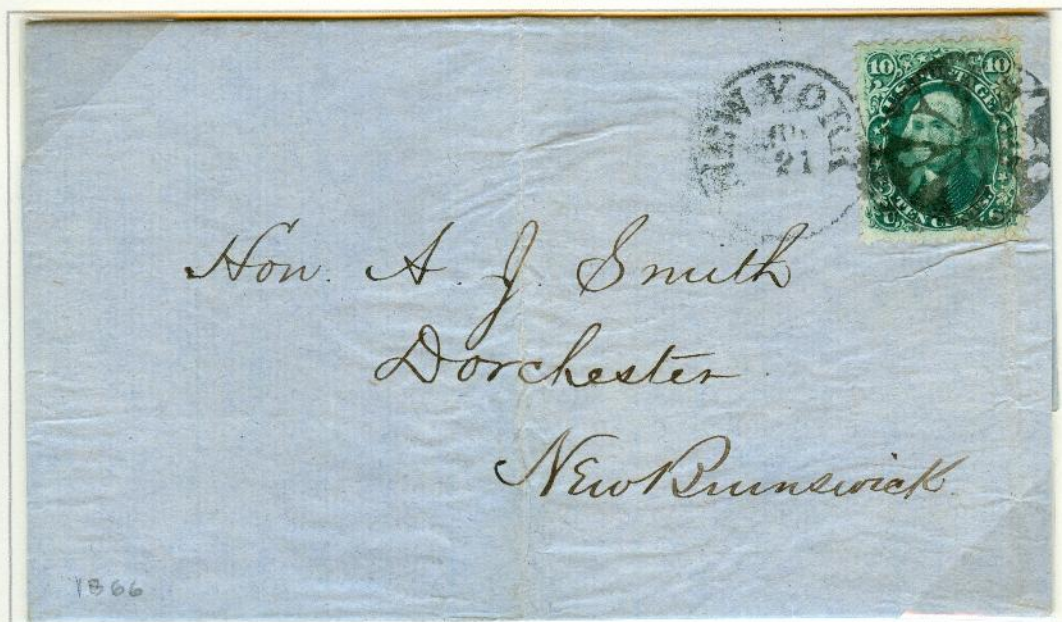
10 cent **type I**

Bremen mail to

Bremen

10 cents per 1/2 oz.

8/53 - 1/68



British Packet to

New Brunswick

10 cents per 1/2 oz.

7/51 - 1/68 treaty rate

300 - 3000 miles

American packet to

Brazil

forwarded by U. S.

consul

to **Argentina**

10 cents per 1/2 oz.

10/65 - 10/70



Ten Cent Value

International Originations and Revenue Use

used in Canada

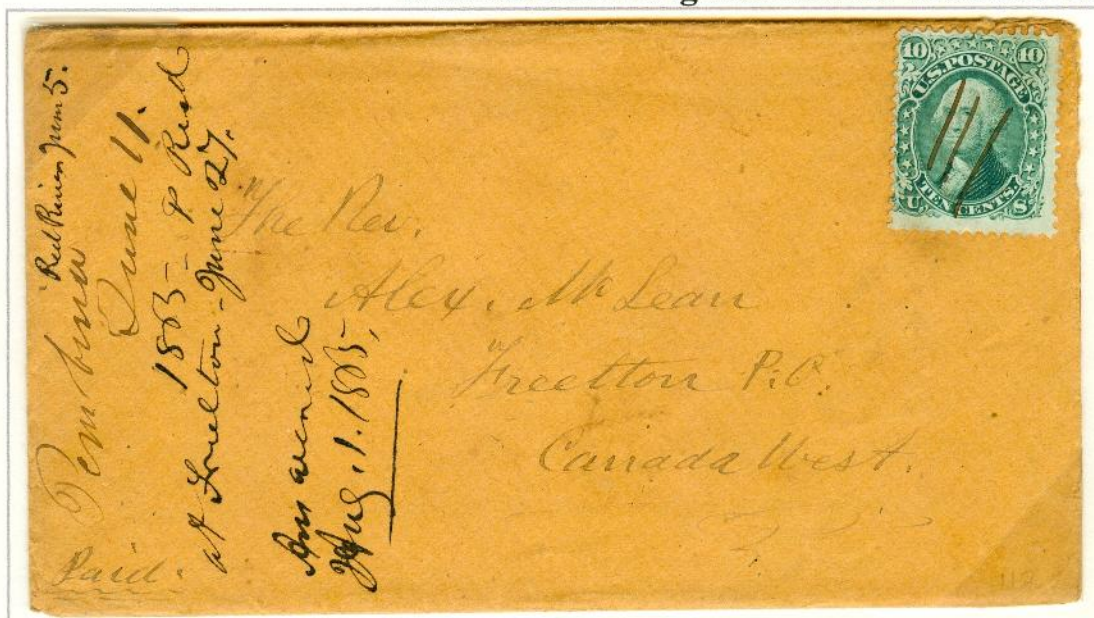
10 cents per 1/2 oz. via

United States

2 cent carriage fee from Red
River Settlement (Manitoba)

to Pembina, MN

paid in cash



bootleg from Jamaica

to New York

to Nova Scotia

10 cents per 1/2 oz.

7/51 - 1/68 treaty rate

300 - 3000 miles



inland exchange - \$400 at 5 cents per \$100 - illegal revenue use

Ten Cent Value

From and to Danish West Indies

from Danish West Indies

10 cents per 1/2 oz.

11/65 - 7/75



from Danish West Indies

mixed franking

10 cent incoming rate

N. YORK STEAMSHIP e

restored

American packet via

St. Thomas to St. Croix,

Danish West Indies

2 x 10 cents per 1/2 oz.

11/65 - 7/75



Bremen via Hamburg
to **Hungary**
2 x 15 cents per 1/2 oz.
7/57 - 1/68



Prussian closed mail
via Vienna to **Turkey**
40 cents per 1/2 oz.
10/52 - 5/63

prepayment optional
30 cents paid to border

Franco Preuss.
resp. Vereinsl. Ausg. Gr.

French treaty mail
to **Gibraltar**
via Spain
21 cents per 1/4 oz.
4/57 - 1/70



Ten Cent Value

International Originations and Destinations

from Hawaii

mixed franking e

2 x 5 cents Hawaiian +

2 x 10 cents per 1/2 oz.

9/67 - 1/70

10 cent stamp lost

in transit



British Packet

via Marseilles

to New South Wales

(Australia)

1/4 - 1/2 oz.

1/57 - 1/68

British mail via

Southampton

to (Victoria) Australia e

33 cents per 1/2 oz.

1/57 - 1/68



British mail via Southampton

to Hong Kong

privately carried to Japan

45 cents per 1/2 oz.

9/61 - 1/68

Twelve Cent Value: EDU August 30, 1861



black



gray black



intense black, plate bruise



double horizontal perfs



e



plate scratches same position
at upper left corner at "12"



"lightened manuscript cancellations" e

block was submitted as unused



PAID



Paris star

a large multiple used as revenues was broken up in the 1980s, some bleached to seem unused



San Francisco Cogwheel Ty III



six point negative star



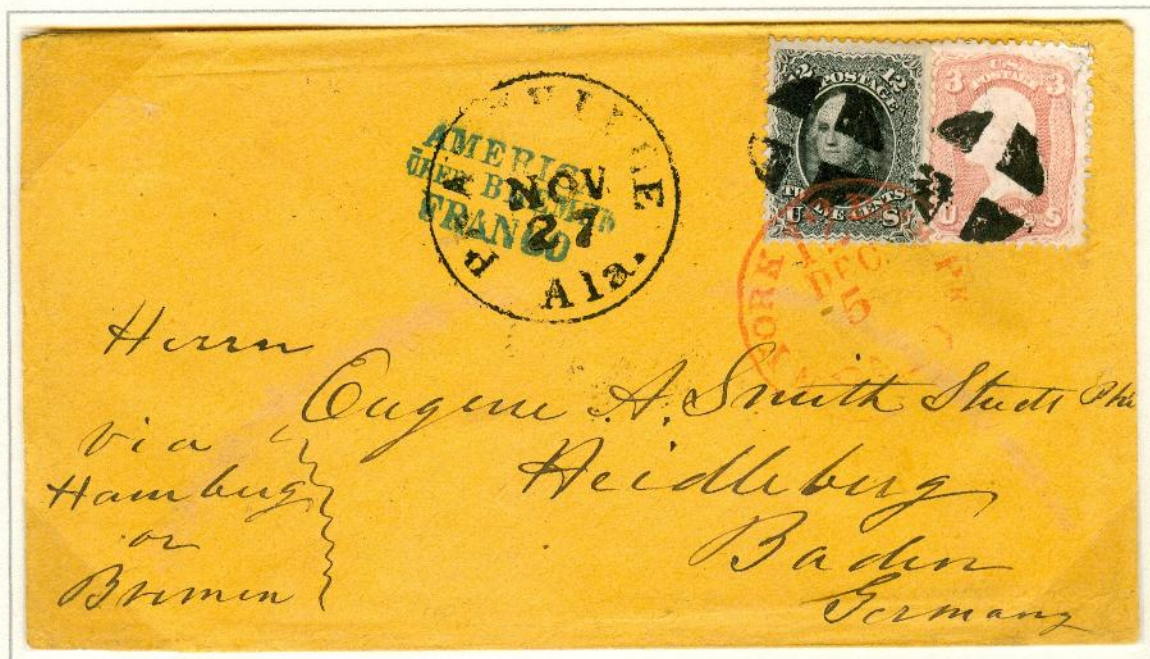
Boston heart



Twelve Cent Value

International Destinations

Bremen - Hamburg mail
Bremen packet
to **Baden, Germany**
15 cents per 1/2 oz.
10/59 - 1/68



Bremen-Hamburg mail
to **Switzerland**
19 cents per 1/2 oz.
e10/60 - 1/68
prepayment optional
15 cents paid it to Bremen
balance due on delivery

treaty rate to **Canada**
15 cents per 1/2 oz.
over 3000 miles
4/51 - 3/64
rated at 30 cents
balance paid in cash

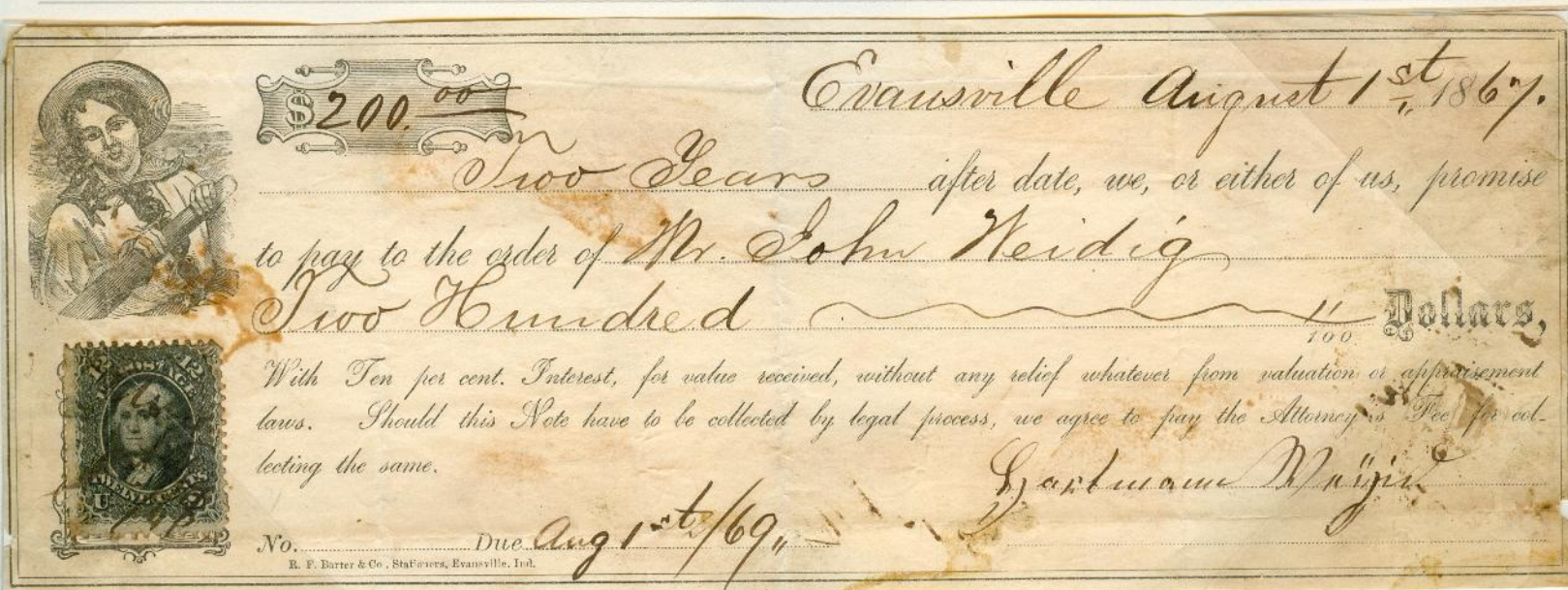
ADVERTISED



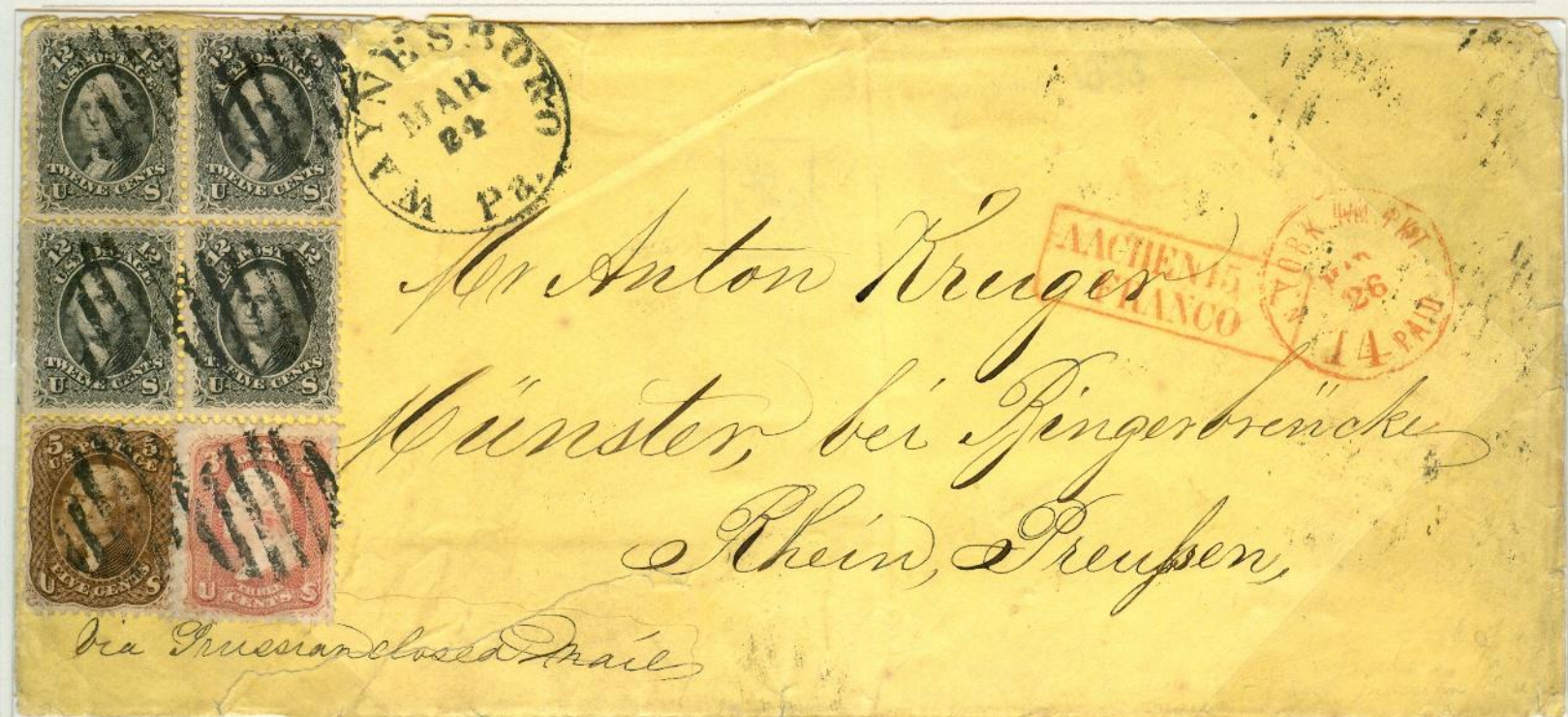


from British Columbia & Vancouvers Island
mixed franking, to Scotland
2 1/2 pence Canadian plus
24 cents per 1/2 oz. : 2/49 - 1/68
12 cent stamps moved to reveal BC & VI stamp

inland exchange - \$200 at 5 cents per \$100
convenience 2 cent overpay
illegal revenue use
2 examples recorded



American packet, Prussian closed mail to Prussia 2 x 28 cents per 1/2 oz. : 9/61 - 1/68



American packet
to **Panama**
British colonial packet
to **New Zealand**
22 cents per 1/2 oz.
8/66 - 3/69



British open mail
to **Spain** - paid only
to Great Britain
21 cents per 1/2 oz.
10/58 - 1/68
convenience overpay

American packet
to **Panama**
British packet
to **Peru**
22 cents per 1/2 oz.
12/56 - 10/67



Prussian closed mail

to Sweden

42 cents per 1/2 oz.

10/52 - 5/63



French treaty mail

to Italy

British packet

2 x 21 cents per 1/4 oz.

1/62 - 1/70

American packet to St.

Thomas

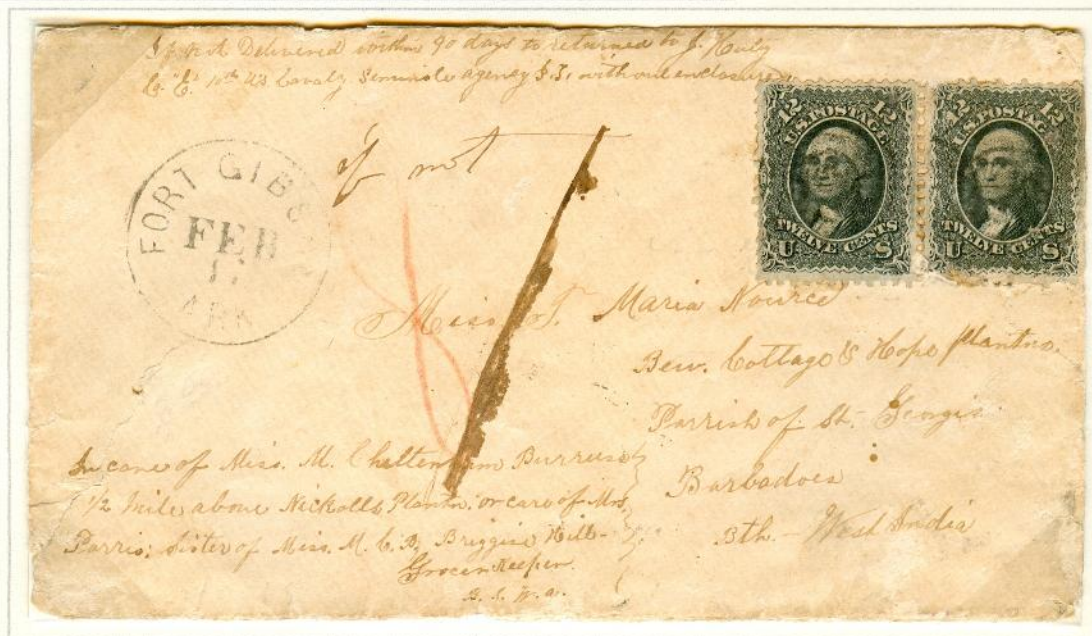
British packet to

Barbados e

2 x 10 cents per 1/2 oz.

11/65 - 8/72

convenience overpay



Fifteen Cent Value: EDU April 21, 1866

Prepays 15 cent rate to France and honors assassinated President Lincoln



black



full black



plate cracks center left



masonic trowel



rejoined block on cover to Paris

less than 5 used blocks recorded



less than 10 mint blocks recorded e



Union soldier's head

Fifteen Cent Value

Envelope Essay, Domestic and International Destinations

15 cent envelope essay
only recorded example

American packet
to Rio de Janeiro, Brazil
French packet to
Buenos Ayres, Argentina
25 cents for 1/4 - 1/2 oz.
8/67 - 1/70

5 x 3 cents per 1/2 oz.
domestic rate

From the
NATIONAL BANK NOTE COMPANY,
No. 1 Wall St. N. Y.



Mrs. Abbie P. Godfrey -

Care of John B. Hale Esq



Buenos Ayres

So. America -

RETURN TO TOLLAND OFFICE IF NOT CALLED FOR WITHIN TEN DAYS.



Lucius H. Fuller Esq

Putnam

Connecticut



Die Reduction der neuen Lager Zeitung

H. Lutz

Suisse in
Europe

Via Bremen

Bremen mail to Switzerland

19 cent rate ended 1/68

sent NGU direct

15 cents per 1/2 oz.

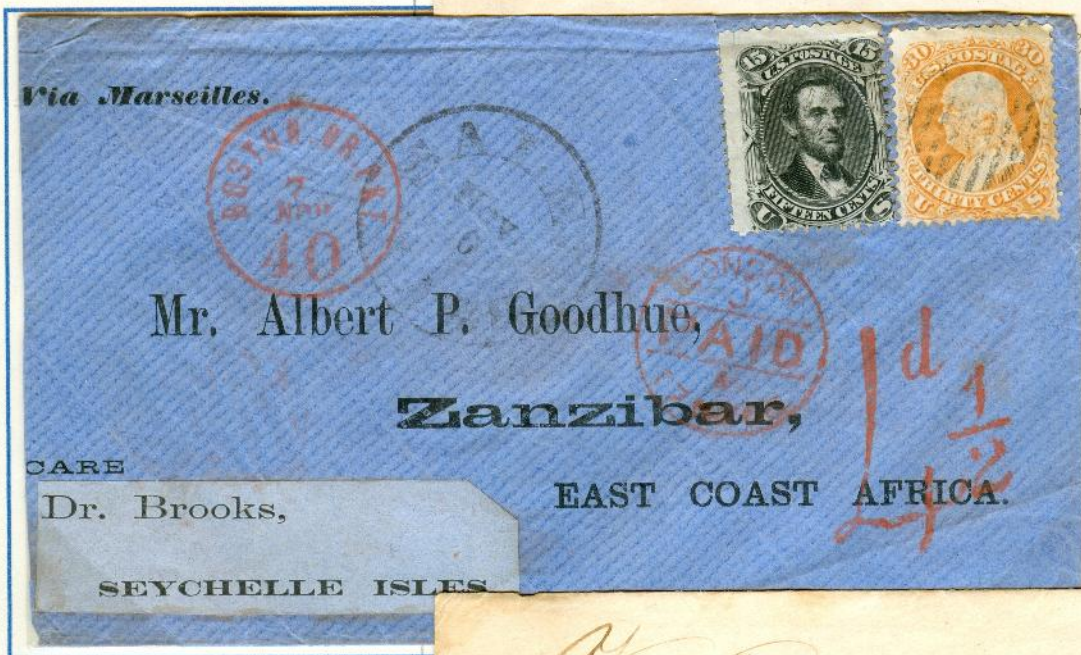
1/68 - 4/68

earliest recorded rate use

Fifteen Cent Value

International Destinations

Netherlands closed mail
British packet
to Netherlands
15 cents per 1/2 oz.
1/68 - 2/70



British mail
via Marseilles,
Mauritius & Seychelles
privately carried to **Zanzibar**
45 cents: 1/4 - 1/2 oz.
1/57 - 1/68

French mail
to **Algeria**
rated as part of France
15 cents per 1/4 oz.
4/57 - 1/70



Bremen - Hamburg mail
to **Prussia**
15 cents per 1/2 oz.
7/57 - 1/68
forwarded locally

Fifteen Cent Value

Revenue Use and International Destinations



inland exchange - promise to pay in 30 days

\$975.10 at 5 cents per \$100

convenience 1 cent overpay

illegal combination revenue use

4 examples recorded – only combination

Bremen - Hamburg mail

to Prussian Silesia

Brieg, (Poland)

15 cents per 1/2 oz.

7/57 - 1/68



French treaty mail

to France

British packet

15 cents per 1/4 oz.

sent on to Italy

prepaid by forwarder

French treaty mail to

Spain

21 cents per 1/4 oz.

4/57 - 1/70



Twenty Four Cent: EDU August 17, 1861



violet shades on thin paper of first printings



Cincinnati, OH violet



reddish violet



pale gray violet



steel blue shades



red lilac



dark red lilac



brown lilac



reddish brown lilac



lilac



dark lilac



gray lilac



gray



e blackish violet e



brown lilac e



steel blue - **SUPPLEMENTARY/MAIL**

largest known used multiple



gray lilac



brown lilac



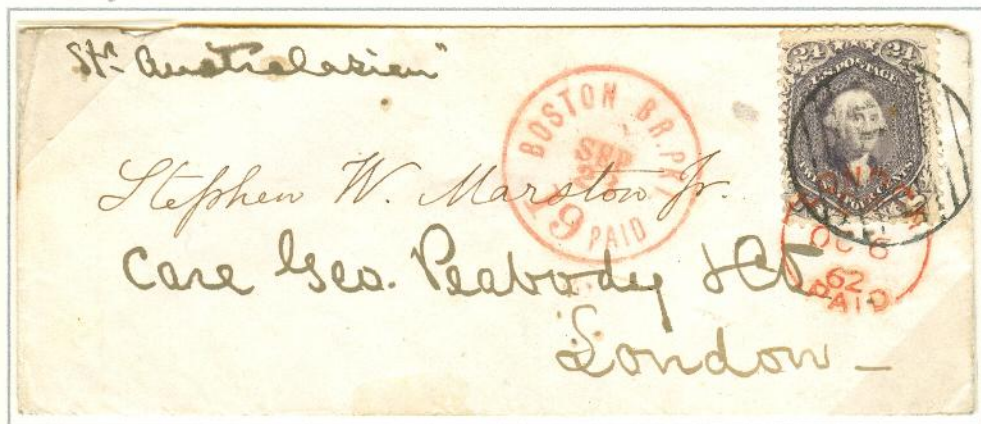
Waterbury, CT
Bridgeport fireman e



Hingham, MA bat



gray



"Boston" violet



steel blue



pale gray violet e

blackish violet e



Twenty Four Cent Value

United Kingdom Destinations

British packet to

Great Britain

3 x 24 cents per 1/2 oz.

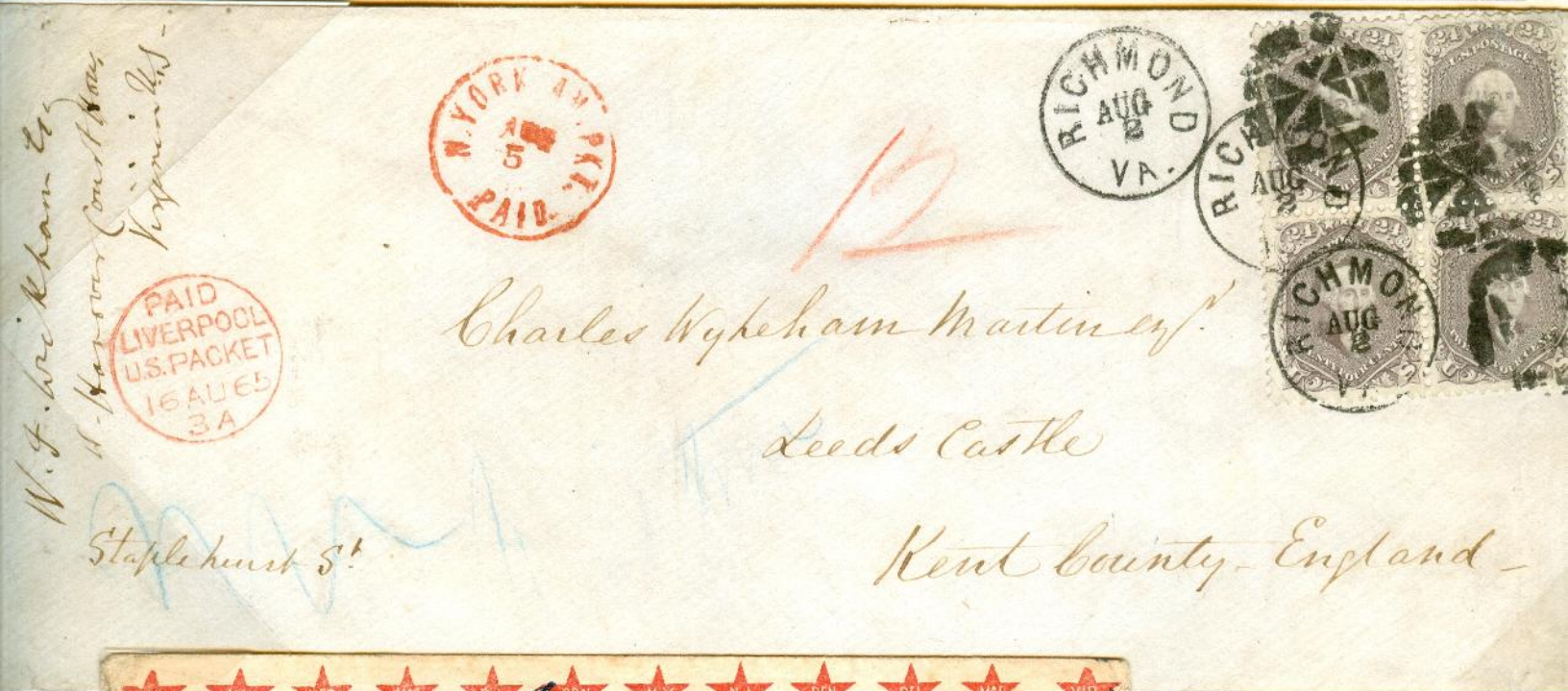
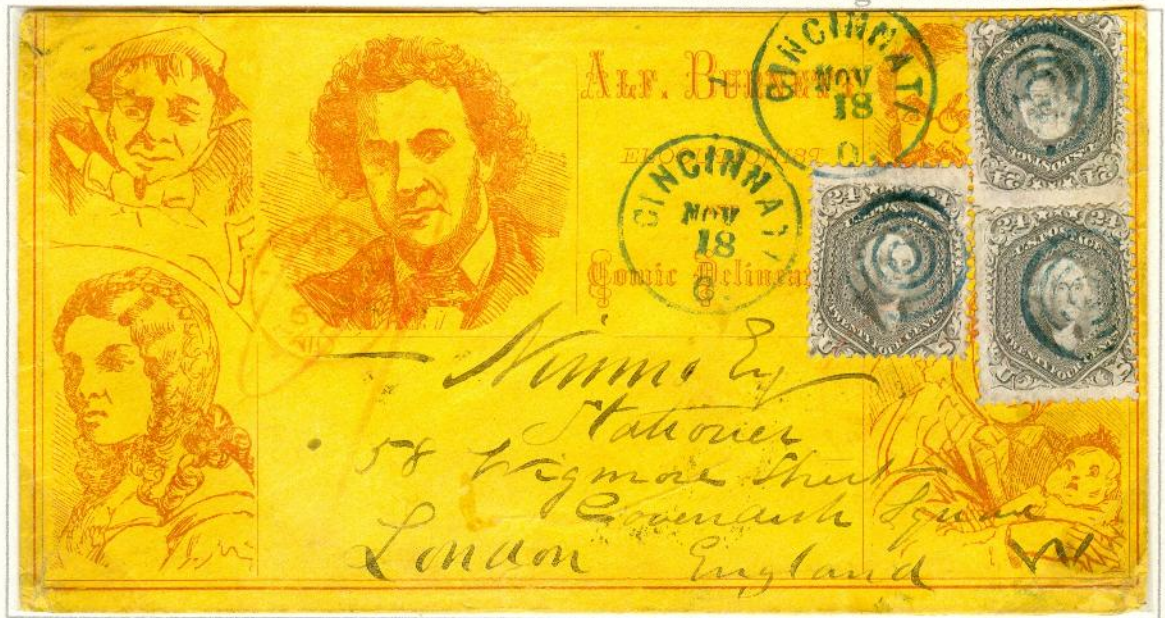
4/66 - 1/68

less than 10 triple rate

covers recorded

normal rating went single,

double, quadruple...



British packet to

Great Britain

4 x 24 cents per 1/2 oz.

2/49 - 1/68

3 blocks recorded on
cover

British packet

to Great Britain e

24 cents per 1/2 oz.

2/49 - 1/68

steel blue

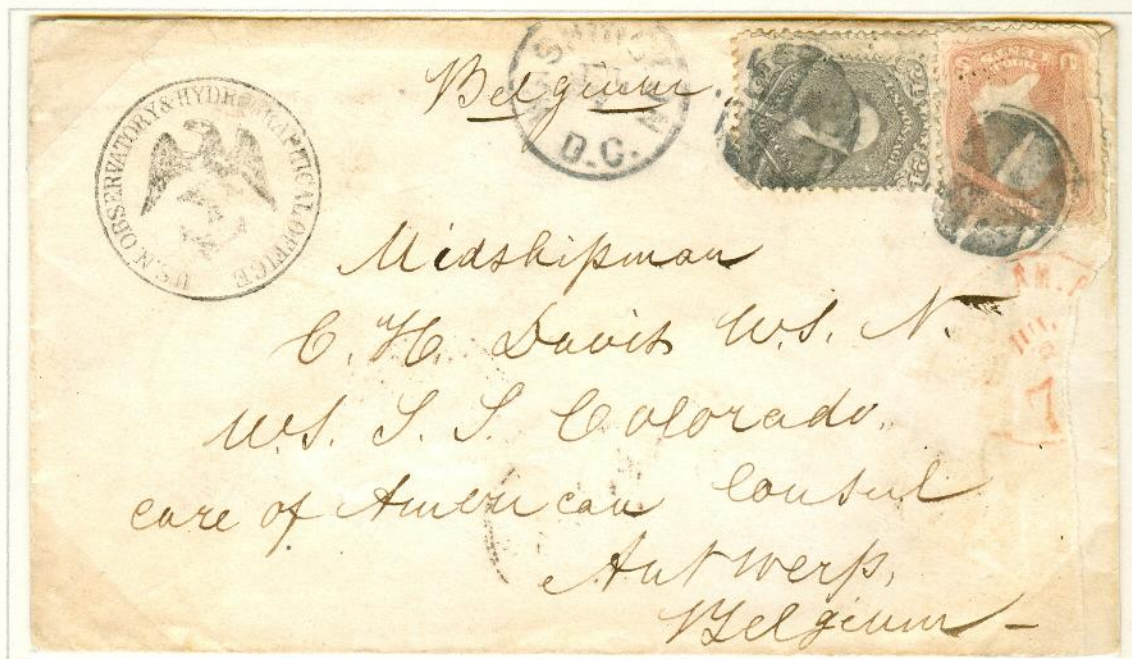
French treaty mail
to Rome, Papal States
British packet
27 cents per 1/4 oz.
4/57 - 1/68



blackish violet

French treaty mail
to Rome, Papal States
American packet
27 cents per 1/4 oz.
4/57 - 1/68 e

Belgian closed mail
American packet
to Belgium
27 cents per 1/2 oz.
1/60 - 1/68



Twenty Four Cent Value

Revenue Use and International Destinations

inland exchange

\$567.36 at 5 cents per \$100

8/66 - 10/70

1 cent underpay as are all

examples

illegal revenue use

3 examples recorded



short paid for

Prussian closed mail

sent via Bremen - Hamburg

to Denmark

20 cents per 1/2 oz.

4/59 - 2/67



Treasury Department,
First Comptroller's Office.

Elisha Whittelsey
COMPTROLLER.

E. O. Crosby Esq
U.S. Minister Resident to
Guatemala
Guatemala

steel blue

British packet

to Guatemala

2 x 34 cents per 1/2 oz.

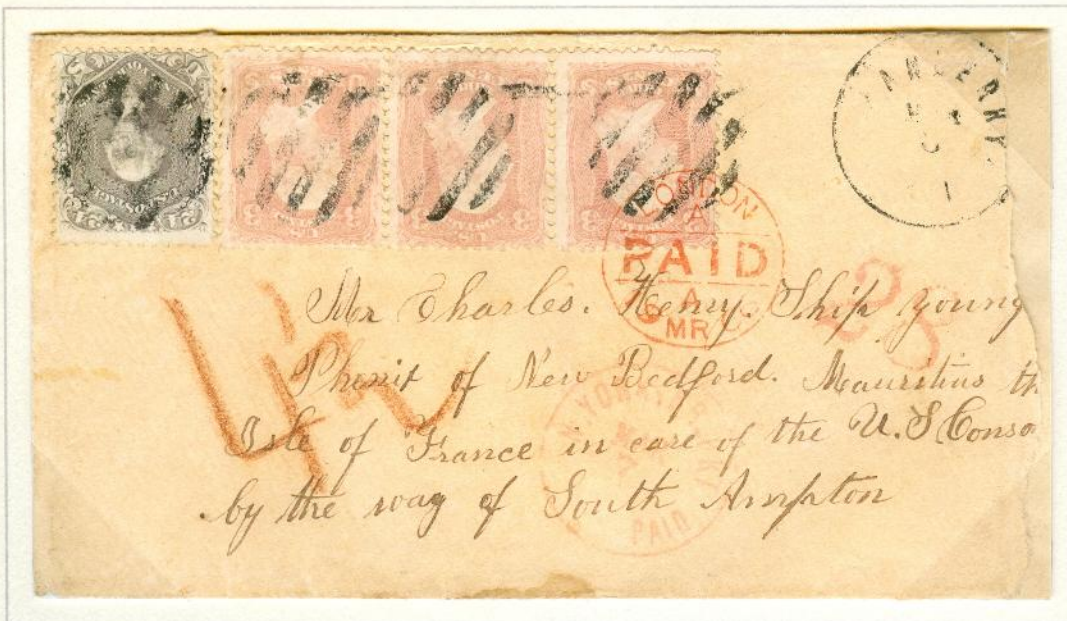
10/60 - 9/62

largest recorded on cover franking

British mail
via Marseilles
to China
53 cents per 1/2 oz.
6/63 - 1/68



British mail
via Southampton
to Mauritius, Isle de
France
33 cents per 1/2 oz.
7/57 - 1/68



paper repaired at right

American packet
then British packet
via Panama
to Chile
34 cents per 1/2 oz.
12/56 - 3/70





yellow orange



orange



deep orange



RETURNED FOR POSTAGE



crossroads



Alexandria, VA geometric



Union soldier's head



Boston, MA heart



New Bedford, MA cogwheel



SUPPLEMENTARY/MAIL



San Francisco cogwheels types I, II and III



French maritime anchor

Thirty Cent Value

turned cover - 20 x 3 cents per 1/2 oz.

Domestic and Revenue Uses

surety bond - illegal revenue use - 5 examples on document

50 cent flat rate - 10/1/62 to 8/1/64 - a 30 cent on piece is recorded



reduced photocopy of first usage of turned cover

French mail
British packet
to **Malta**
30 cents per 1/4 oz.
4/57 - 1/70

5 covers recorded
all pay single rate



Hingham "bat" cancel
French treaty mail
British packet
to **Greece**
30 cents per 1/4 oz.
4/57 - 1/70

French mail
British packet
to **Smyrna, Turkey in Asia**
30 cents per 1/4 oz.
4/57 - 1/70



Thirty Cent Value

International Destinations

French mail

American packet to Calais

to **Burma**

30 cents per 1/4 oz.

4/57 - 1/68



French mail

British Service

to **Wellington, India,**

miss sent to **Wellington, NZ**

30 cents per 1/4 oz.

4/57 - 1/68

British mail, American packet

to **Andaman Islands - India**

33 cents per 1/2 oz.

e4/59 - 1/68

treated as fully paid at the 30

cent French mail rate



British mail

via Marseilles

to **Natal, Cape Colony**

45 cents : 1/4 - 1/2 oz.

7/57 - 1/68

Thirty Cent Value

African Area Destinations

British mail
via GB, care of US consul
to **St. Helena**
33 cents per 1/2 oz.
5/54 - 6/63



British mail
to Cape of Good
Hope
33 cents per 1/2 oz.
7/57 - 1/68

British mail
to Cape Coast Castle
(Gold Coast)
33 cents per 1/2 oz.
7/57 - 1/68



Thirty Cent Value

International Destinations

British mail
via Southampton
to Singapore
34 cents per 1/4 oz.
1/68 - 1/70



Bremen - Hamburg mail
via Bremen
to Sweden
33 cents per 1/2 oz.
7/57 - 2/67

Prussian closed mail
to Russia
35 cents per 1/2 oz.
5/63 - 1/68 e



British mail
via Marseilles
to Macao,
Portuguese China
53 cents up to 1/2 oz.
6/63 - 1/68



British mail
via Marseille
to Philippines
57 cents : 1/4 - 1/2 oz.
12/61 - 6/63

British mail
via Marseilles
to Shanghai, China
57 cents : 1/4 - 1/2 oz.
12/61 - 6/63



Ninety Cent Value: EDU November, 1861



blue



pale blue



dark blue



dull blue



small flaws e



largest recorded multiple

ex Ishikawa





31 x 3 cents per 1/2 oz. for 15 – 15 1/2 oz. : used for the shipping of photographer's copper plates e
only recorded domestic use on intact full cover



6 x 15 cents per 7 1/2 grams via French packet to France : 4/57 -1/70. Credit changed from 72 to 84 and back to correct 72 for 6 rates
confusion caused by difference between 1/4 oz. (U. S.) and 7 1/2 grams (French). e cleaned and restored

French treaty mail,
British packet to
Hong Kong
6 x 30 cents per 1/4 oz. :
4/57 - 1/70
cleaned and refolded
where stamps
overlapped cover



British mail
via Marseilles
to Hong Kong
2 x 53 cents per 1/4 oz.
6/63 - 1/68 e
piece missing 3 cent

British mail via GB
to **Uruguay**
4 x 45 cents per 1/2. oz. :
1/61 - 1/68

2 uses are recorded
both are fronts



International Destination

Printed Matter

book post

to Great Britain

13 times 8 cents per 1/2 oz.

only recorded example e

cleaned, stamps reaffixed

By mail steamer to England.

Berkshire
Ague Documents.

From H. Edgar
Thompson's Station L.S.

P.D.

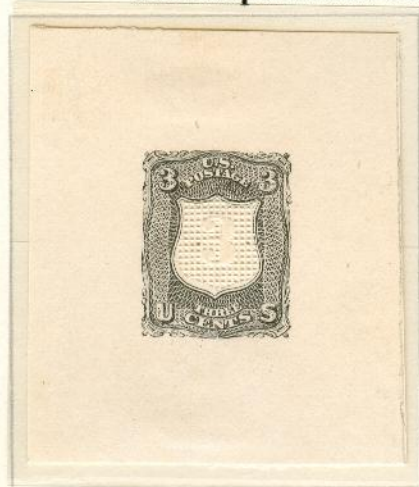


Wm. Pearkips Esq.
Solicitor
East Grinstead

Early Grill Experiments

Charles F. Steel

Grill Experiments Illustrated in Patent 70,147 by Charles F. Steel, October 22, 1867



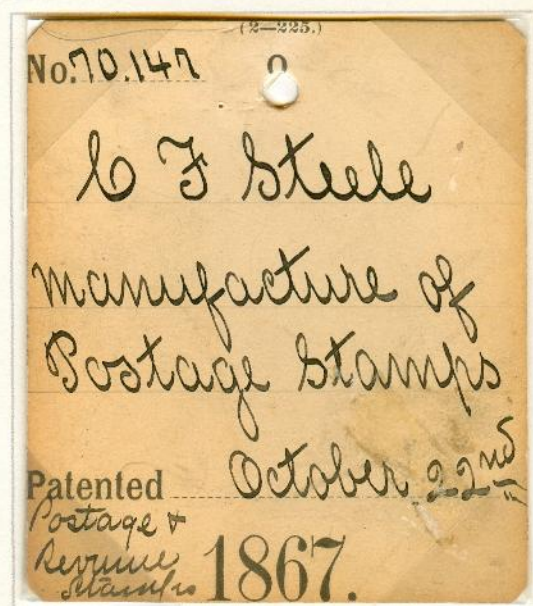
lithographed die essays on wove paper, unprinted area embossed and grilled points down

all rights were licensed to the National Bank Note Company

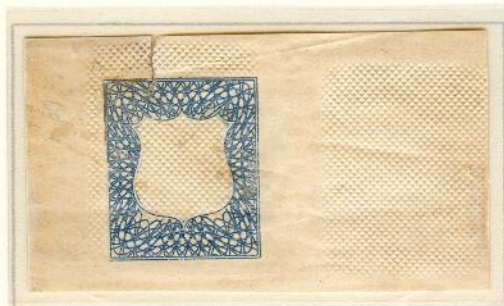
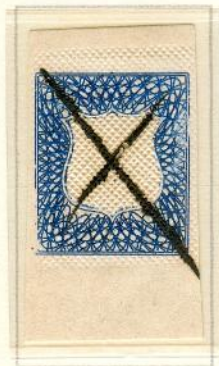


Post Office approval of "Steel Nature"

only recorded example



early experiments in grilling including patterns of grills over all-over grills only recorded examples



individually grilled diagonally and embossed, then printed and gummed trial cancel, to test whether printing or grilling should come first

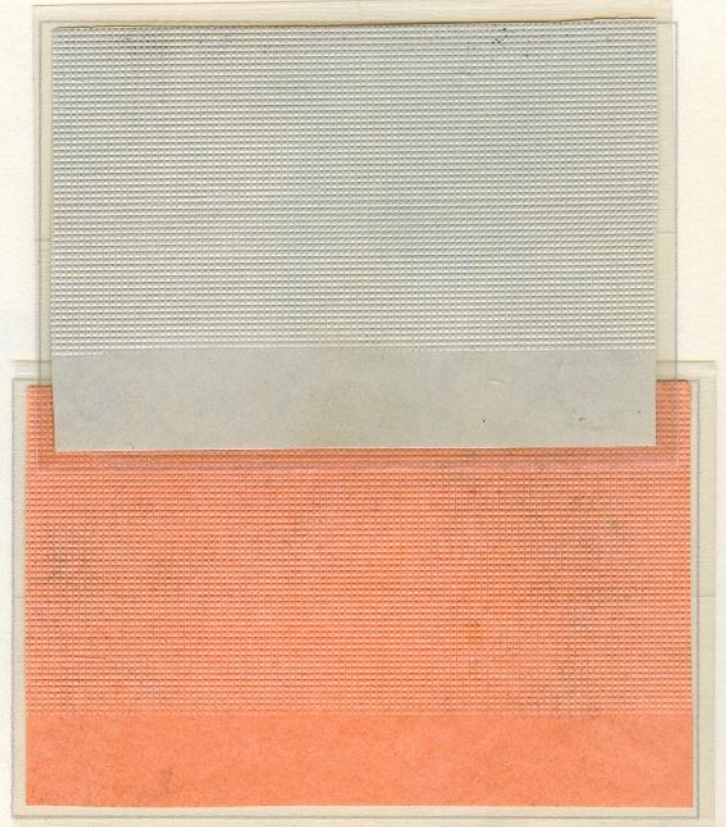
test of embossing with central design, ungrilled

Early Grill Experiments



"First experiment of grill" - 3 examples recorded

Production by Female and Male Rollers



produced by a female roller - depressions in the roller force the paper up into the depressions, forming pyramidal bosses, points up



test of ink penetration - **only recorded example** - sample produced by a male roller, projections on the roller piercing the paper, in this instance from the reverse, forming sharp **horizontal ridges**, points up



tests of ink penetration - samples produced by male roller, pyramidal bosses, points down - **only recorded examples**

Early Grill Experiments

Essay Grills Covering the Entire Stamp

Music Box Grills



trial cancel



regular points up



irregular points up



irregular points down N.Y. SEP. 24, 1867



only recorded example



pink trial cancel



misperforated



India proof paper



points down - boxy ridges



partially grilled



rose



trial cancel



black



unprinted



lake



preprinting paper creases

Essay and Issued Grills Covering the Entire Stamp

"A" Grills



points up



points down



NY P.O. cancel used to test grilling



shooting star

horizontal ridges

5 examples recorded

2 examples recorded

First Issued Grills - the "A" Grills



e



female roller - points up - EDU AUG 13, 1867



imperf pair



irregular block of 3 e



4 used examples recorded e

4 unused examples are essays - 8 used examples of the thirty cent "A" grill are also recorded



4 blocks recorded e



earliest documented use - August 13, 1867 - 4 covers recorded e

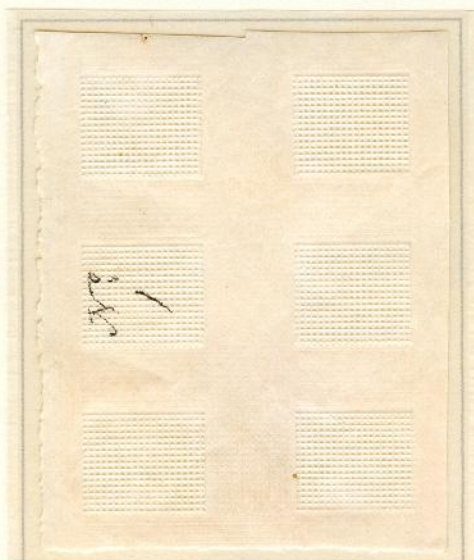
Experiments in Grill Production

Reduced Grill Size - Female Rollers - "C" Grills

First Essays Points Up - Later Essays Were Points Down



partial erasure - coated paper



16-16 1/2 x 19-19 1/2 points e



16-16 1/2 x 19-20 points

Planing down of "A" grill rollers produced "C" grill rollers with depressions of varying sizes.

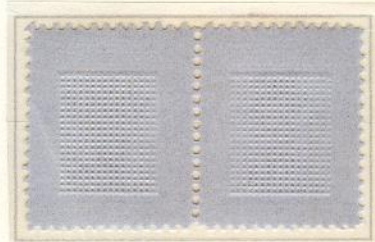
The "A" grills weakened the stamps and required too much pressure to produce quickly.



16 x 19 points
coated paper



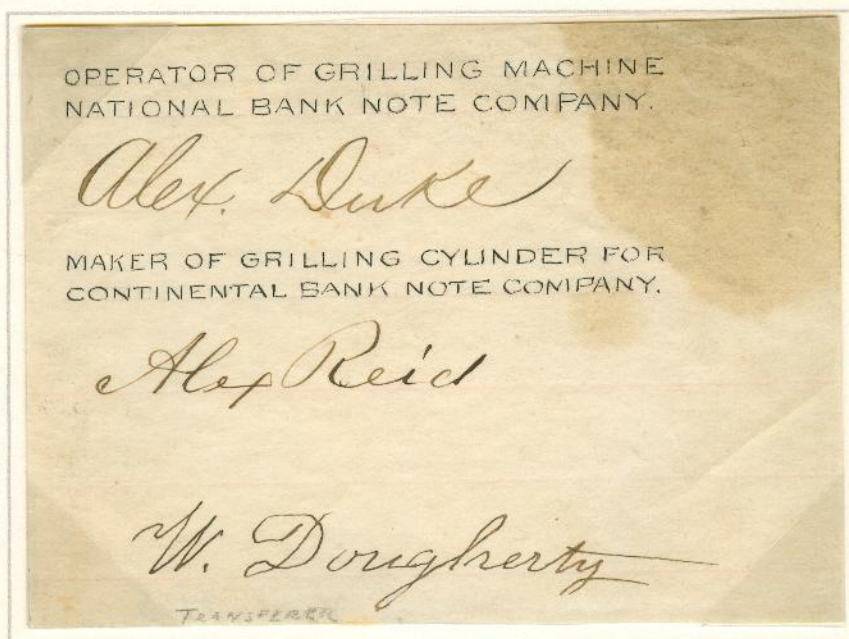
16 1/2 x 18 1/2
points



16 1/2 x 19 points
16 x 19



16 1/2 x 19 1/2
points



only recorded example

Full Pane of Essay "C" Grills - Points Down on Coated Paper

showing weak partial erasures of the "A" grill roller

only recorded full pane - 4 quarters of the other pane are in the Philatelic Foundation archives – ex Earl of Crawford

Perforated and Gummed "C" Grill Essays



points down



points up



points down

only sound recorded example

a defective example exists



points up



points down



points up



points down

only recorded examples of each of the above 10 essays - only recorded values

ex Earl of Crawford and Colonel Green

Second Issued Grills

Points Up "Biscuit" Bosses - 16-17 x 18-21 Points

"C" Grills



largest recorded multiple



inverted grill

points down e



double grill e



Rockford bluebird



imperf pair e



less than 6 blocks

mint or used recorded e

partly erased "C" grills: poor planing of "A" roller, often mistaken for "B" grill (4 examples from 1869 cover) e

a "B" grill essay exists in the Luff reference collection

partially erased "C" grill

often mistaken for "B" grill
eighth day of use e

PFC misses partial erasure



incoming from
Great Britain
to Cincinnati, OH
forwarded to
Boston, MA
cover restored

First Grills Issued Points Down

"D" Grills

"D" Grills - Vertical Ridges - 15 x 17-18 Points: Male Bosses Reduce Pressure, Speed Production



largest recorded used multiple



largest used multiple - 3 recorded

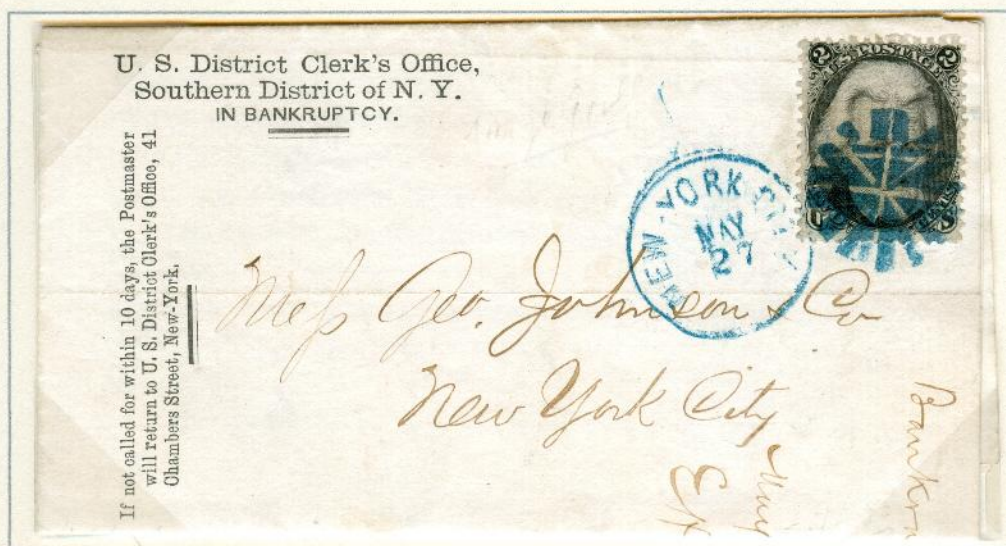


less than 5 blocks recorded

e

split grill e

split grill



drop letter rate, carrier service available e

British packet
NGU closed mail
to Germany e
15 cents per 1/2 oz.
1/68 -7/70



Experiments in Grill Production

Reduced Size

Reduced size to speed production - Points Down - Horizontal Ridges - 14 x 18 Points - "Z" Grills

Using miniature 3 cent & 12 cent plates (3 x 4) on various papers tinted with sensitive ink. Unprinted essays are from selva.



black on yellow



red on green



dull brown on yellow



brown on rose



brown on yellow



brown on straw



red on horizontally laid salmon



brown on salmon



black on yellow



red on green



brown on rose



brown on yellow

horizontally laid papers



straw



blue on lilac



brown on salmon



green on salmon



green on straw



salmon

12 cent on vertically laid papers



green



black on deep orange



blue on deep orange



red on green



brown on green



yellow

Issued "Z" Grills

Less Heavily Embossed than the Essays - 14 x 18 Points

Grills 17 points high are listed in the literature. In 35+ years of examining all available multiples, no 17 point grill has been seen by this exhibitor, se-tenant with an 18 point high grill; nor has any clearly impressed, certified 17 point grill.



e



e



e



3 or fewer blocks recorded



e



6 or fewer blocks recorded e



inverted grill—points up
discovery example e

Herzog Cert. "genuine". - PSE decline opinion

2 points down are recorded



3 or fewer blocks recorded



largest multiple

the unused 1 cent in the NY Public Library and the used 1 cent have been questioned - the 10 cent exists (6 copies)



only recorded

plate number example e



"Z" - 1" grills - 15 points wide - 13 horiz. bosses flanked by vertical bosses



largest recorded used strip e



split grill



double grill e

"Z" Grill Uses

printed matter

Northern German Union

closed mail to **Bremen**

8 cent rate

"SHORT PAID"

6 cents (2 1/2 sbgr.) due

2 sbgr. penalty

collect 4 1/2 sbgr.

1/68 – 9/72 or later



International Destinations

None of the other "Z" grills are known on cover.



American packet

direct to (Colon)

Republic of Colombia

(Panama) e

10 cents per 1/2 oz.

12/56 – 7/75

convenience overpay

largest 3 cent "Z" grill

on cover franking

Northern German Union

direct to **Italy**

14 cents per 1/2 oz.

1/68 – 7/70

signed by Herzog

stamps lifted to verify grills



George Bowlsby - Patent No. 51,782 - 12/26/65 - Partially gummed and slit stamp essay



bronze overprint, "S" slits on 2
only recorded example



original submissions on portions of patent papers
only recorded examples

unfolded variation folded variation
at most 3 relatively intact examples of each survive

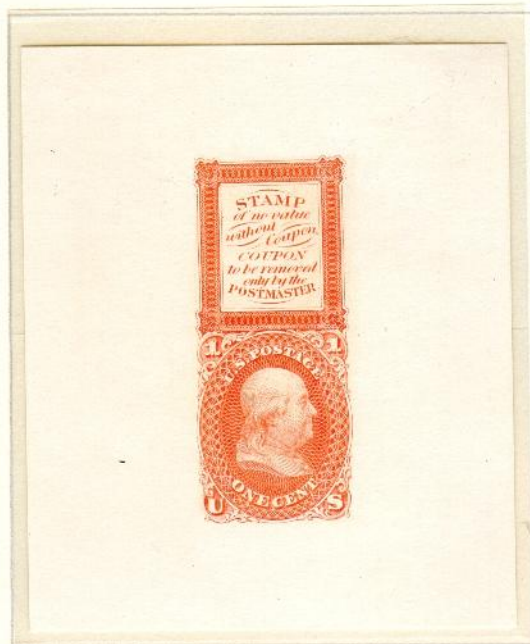


2 cent punchout variations
7.5 mm high US 10 mm high US e

3 cent punchout
repaired



grilling - 14 x 16 1/2 points also
with partial gumming and slitting
discovery example



large die proofs printed on glazed card stock and India paper

Adaptation of George Bowlsby patent No. 51,782 - 12/26/65 - Partially gummed coupon essay

plate essays on stamp paper unless noted



imperforate
between



perforated
between



rouletted
between



gummed on stamp portion only - coupons ungummed
removing the coupon was meant to cancel the stamp



imperforate



"C" grill
imperforate



split "C" grill
imperforate



pelure paper
imperforate



India paper
imperforate
previously
considered a die proof

Essays to Prevent Reuse

Typographed in Relief for Surface Printing to Reduce Cost

Safety networks in fugitive inks - Thorp patent of October 5, 1869 - Experimental sheets of 12: 3 x 4



Only 1 sheet of 12 of each variety was produced



red rings



black rings, patent cancel



at most 3 of each recorded half of only recorded sheet : "ONE" underprint

Reconstructed strip of 3, pale green on dull violet, type of Row 3 overprint.



only recorded full sheet: "VEINTE" overprint

Further safety networks: Row 1. large wavy overprints Row 2. tight wavy crosshatched overprints Row 3. medium wavy overprints

Row 1



tan on tan



tan on violet



tan on green



gray on violet

Row 2



gray on rose-red



lt. brown on lt. red-brown



lt. brown on dk. dull red-brown



gray on rose-red

Row 3



dull blue on dk. green



gray-blue on dull rose-red



dull blue on violet



gray-blue on rose-red

Henry Loewenberg - patent No. 45,057 - 11/15/64 - Self-canceling decal on goldbeaters skin:
existing 200 subject plates were used, but only the 3 cent value exists in very large multiples.

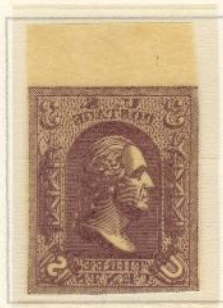


5 and 10 cent images



gummed on the impression - attempts to remove the stamp for reuse destroy the image
all paper types, essay colors and perforation combinations recorded are shown
1 cent value reported but never viewed by modern authorities – now delisted

Henry Loewenberg - patent No. 45,057 - 11/15/64 - self-cancelling decal on goldbeaters skin
 printed on the gum with images reversed - attempts to remove the stamp for reuse destroy the image



orange laid paper



plates were prepared with wider
 spacing for perforations



very few blocks are recorded se-
 tenant with French decal essays

only 5 perforation experiments are recorded, only on the 25 subject plates with narrow spacing
 note the lack of perforations between the selvage and the exterior stamps

Further paper and ink experiments using 25 subject plates with image reversed



India paper

thick glazed paper

fugitive ink - thin wove paper

"March 1868"

chemically treated paper turns blue when wet



printed on coarse linen



thick wove paper

John Sturgeon - patent No. 79,157 - 6/23/68 - self-cancelling stamp with colorless sensitive ink



"CANCELLED" crossed diagonally



network underprint



network overprint

submitted to Post Office Dept. on 11/21/67 - colorless ink overprint cancels the stamp when moistened

Francis patent paper - 1000 stamps tested in Providence, RI - chemical cancel reacts with treated paper



normal cancel

photosensitive paper e

chemical cancel



all recorded formulations of the treated paper are shown

James Macdonough - patent No. 52,869 - 8/27/66 - glycerin based ink



light brown



dark brown



wiped with water

Henry Loewenberg - patent No. 42,207 - 4/5/64 - sizing or starch coated paper



deep orange-red



gray lilac



wiped with water



rose



dull blue

William Wyckoff - patent No. 53,723 - 4/3/66 - Chinese white water-color coated paper



yellow orange



blue



wiped with water



green



gray black

Essays to Prevent Reuse - Embossed in Relief for Surface Printing to Reduce Cost



embossed untrimmed die essay on India

only recorded example



2 cent design embossed
for envelopes



typographed die essay
gummed, experimental

grill, 13 x 14 points

only recorded example

Typographed in relief for surface printing to reduce cost



thin card stock



heavily laid paper
albino
US monogram



thin card stock



heavily laid paper
US monogram



US monogram



heavily laid paper US monogram



reversed image with extra lathework – 2 recorded examples



embossed on white wove paper

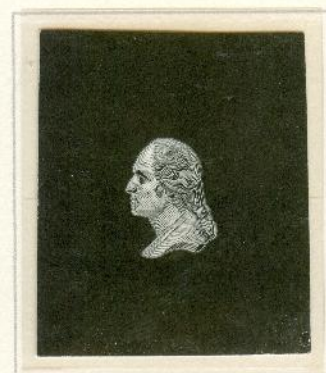
Typographed in relief for surface printing to reduce cost



thin card stock



thick card stock - dots on face about the eye



thin card stock

lithographed

face dotted on

strongly impressed on wove paper and gummed



fugitive ink

5 fugitive - not embossed



5 carmine - oil - poorly embossed

grilled points down

5 carmine - surface plate - not embossed

Tested with essay "C" grills - points down



typographed large die



chemical paper

trial cancel

ungrilled



tested with essay "C" grills - points up



wide grill

resembles "B" grill

chemical paper

Abram Gibson - patent No. 41,118 - 1/5/64 - fugitive ink on opaque coated paper



pelure paper

Further paper and ink experiments with existing 3 cent plates



red



red on horizontally
ridged double paper
discovery example



brown



rose

horizontally laid papers tinted with sensitive ink



dark red-brown on green



brown-red on salmon



green on green



green on white



brown-red on lilac



green on yellow

wove papers tinted with sensitive inks



brown on rose-lilac



dull red on faint red



dark red on thick yellow



brown-olive on off-white

straw paper varieties



dull red



dull orange-red



brown



faint red-orange



dark rose

Further paper and ink experiments with existing 3 cent plates



blue



sensitive olive ink



experimental gum



green on card stock



green



brown on
very thin paper



albino
impression



blued paper
varnish circles



watercolor on
white wove



black on
white wove



black on laid
chemical paper



pink tissue on
white wove



white tissue on
white wove



light orange
wove paper tinted with green sensitive ink



rose pink



scarlet
sensitive ink



scarlet
tissue on wove tinted with green sensitive ink



red



thin wove



wove



green wove



green laid



hick yellow laid

Scarlet inks were tested in late 1867 and early 1868 as demonstrated in Frame II Page 15, refuting Wagshal's article.

Essays to Prevent Reuse

Later Typographed Essays to Reduce Cost

Circa 1867-68 by National Bank Note Company



ferrotype of head
thick card



progressive die
stiff paper



completed die
thin paper



completed die
stamp paper

Two colors shading into each other to produce rainbow colors - **only recorded sheet**



black over scarlet



Underprinted with designs in another color on safety paper - **less than 6 of each recorded**



essays using the Liberty head with perforations around the vignette are from the 1870's:

the underprint 2 in circle is listed but has not been pictured

Bi-color Essays to Prevent Reuse

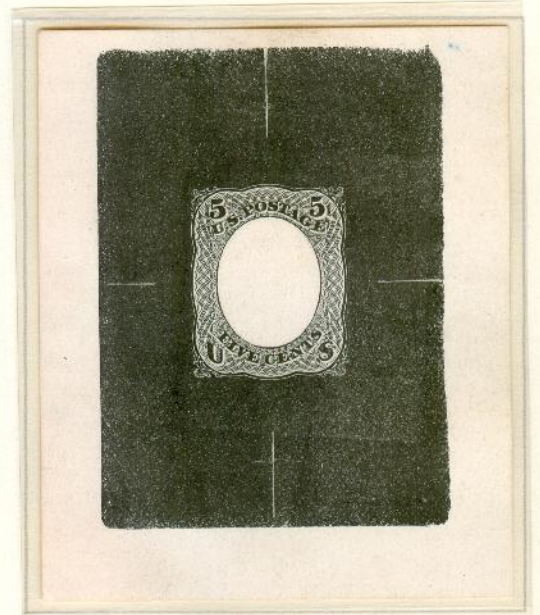
George Jones Proposal of July 20, 1868



vignette from 12 cent first design
crosses for printing registration



lithographed frame
positive image
large, left facing
Washington vignette
pasted on



lithographed frame – negative image
lines for printing registration



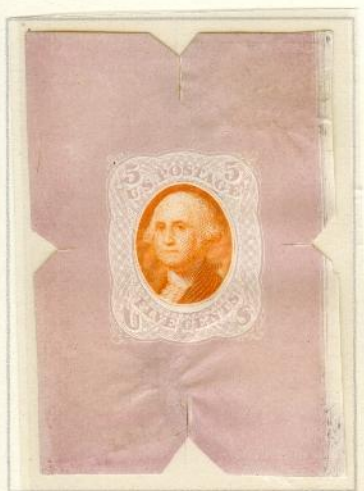
vignette from 12 cent first design
punch hole through registration



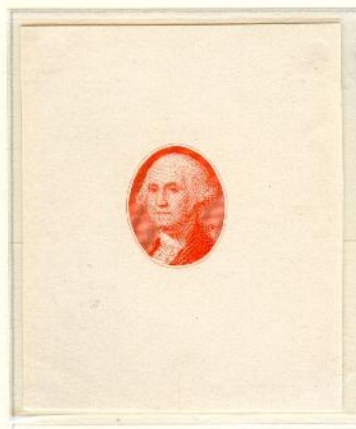
completed essay – negative image
vignette printed
only recorded 1 cent example



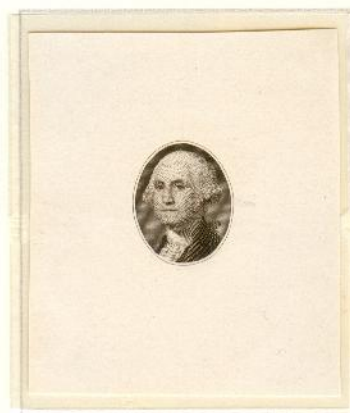
vignette from 12 cent first design
punch hole through registration



completed essay—negative image
vignette printed



colored vignettes - oval ring added - ivory paper



completed essay—negative image
vignette printed

Experiments in Grill Production

Reduced Size for Faster Production

The "E" grill - Points Down - Vertical Ridges - 14 x 15+ - 17+ Points

essayed with modified dies



1 cent frame

14 x 17 points

monogram *overprint*

2 examples recorded



grill approval

14 x 16 1/2 points

only recorded example



1 cent frame

network *underprint*

2 examples recorded



14 x 17 points



1 cent frame - 14 x 16++ points

laid paper



wove paper



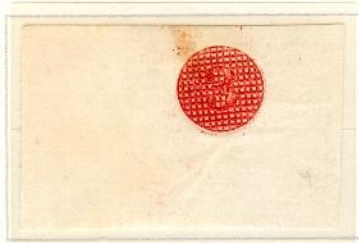
specimen

14 x 16 points

additional experiments with reduced size grills and embossing



albino on tan



1/2 inch diameter grilled circle - points down

red on white quadrille



frame pasted on



5/8 inch diameter grilled circle

circle - points down



3 in 6 bar shield

embossed



3 in 7 bar shield

embossed



3 in 13 bar shield

embossed

The Issued "E" Grills

Unused, Used and Varieties

Less Heavily Embossed than the Essays - Points Down - Vertical Ridges - 14 x 15+ - 17+ Points



e

e



presentation copy
full gum
e "precancellation"

triple transfer
different shifts
upper L & lower R

inverted grill
discovery example e

12 cent
continuous
marginal grill



1 cent
split grill

3 cent
quadruple split grill

2 cent
split grill

12 cent
double grill

3 cent
triple grill

15 cent
double grill



variations in grill sizes by number of points

14 x 15+

14 x 15++

14 x 16

14 x 16++

14 x 17

14 x 17+

"E" Grill Multiples

Unused and Used



two recorded examples e



"E" Grill Uses: 1 cent and 2 cent

Domestic and International Destinations

domestic rate

3 cents per 1/2 oz.

called for in ten days return to
CHIBALD MIRIELEES,
Cincinnati Home Insurance Co.
37 East Third Street,
76.
CINCINNATI, O.

Mr J. D. Sears
Corrville



you to
Ohio

Northern German Union

British transit

to Germany

15 cents per 1/2 oz. plus

8 cents foreign registry

1/69 - 7/70

2235
Key Press
closed mail.
Key is locked
2998
Stolph Teisberg
Cincinnati
Germany

Edward Donnelly,
163 Orange Street
Albany N.Y.

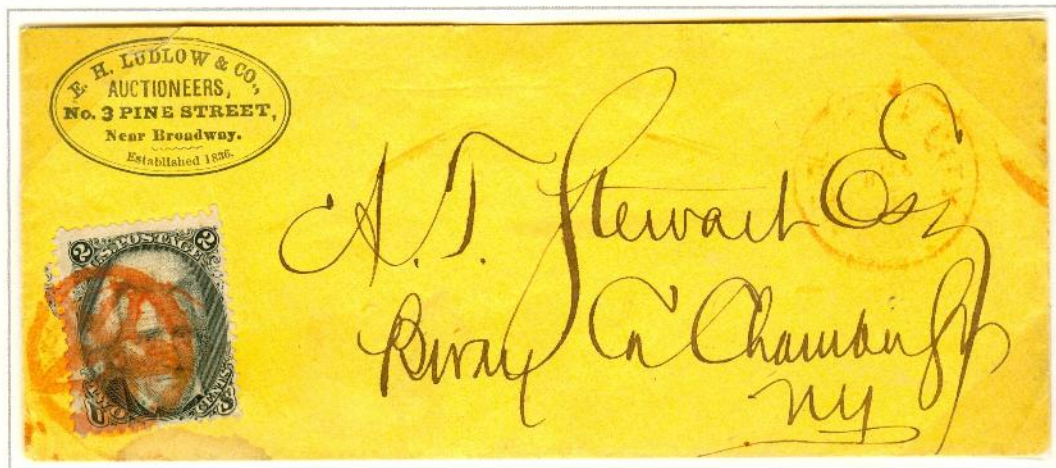


bisect use paying domestic rate - 3 cents per 1/2 oz. e

"E" Grill Uses: 2 cent and 3 cent

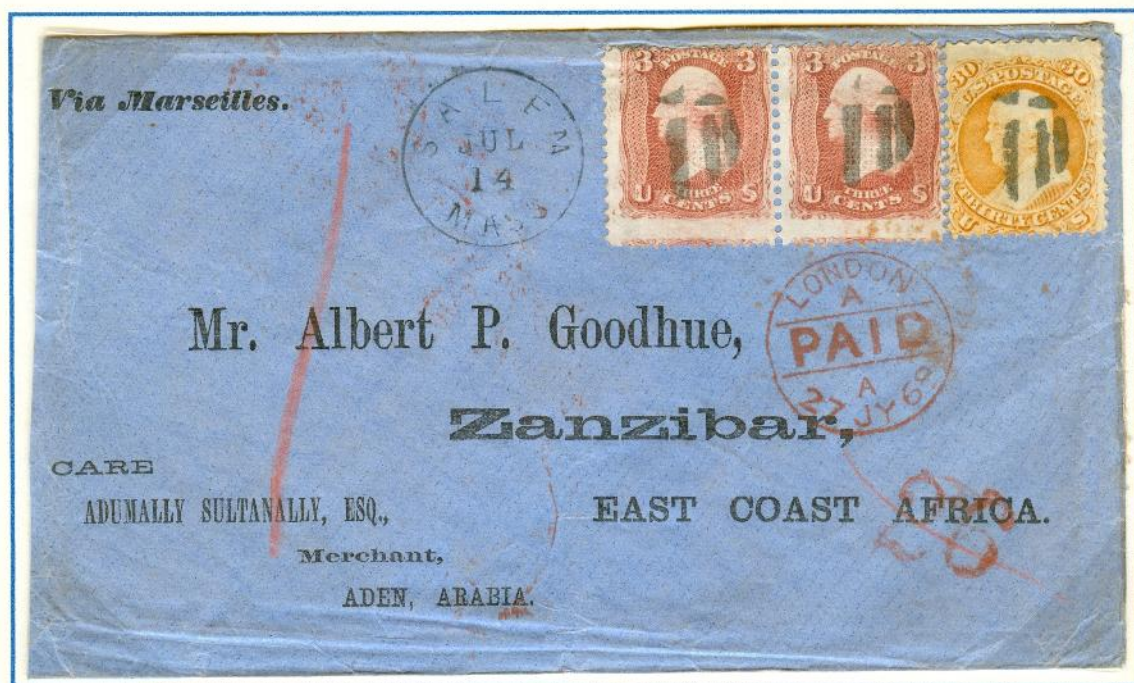
Domestic and International Destinations

2 cent drop letter rate



unsealed circular rate
to Nova Scotia, Canada

British mail
via Marseilles
to Zanzibar
via Aden, Arabia
36 cents per 1/4 oz.
3/68 - 1/70



"E" Grill Uses: 10 cent

International Destinations

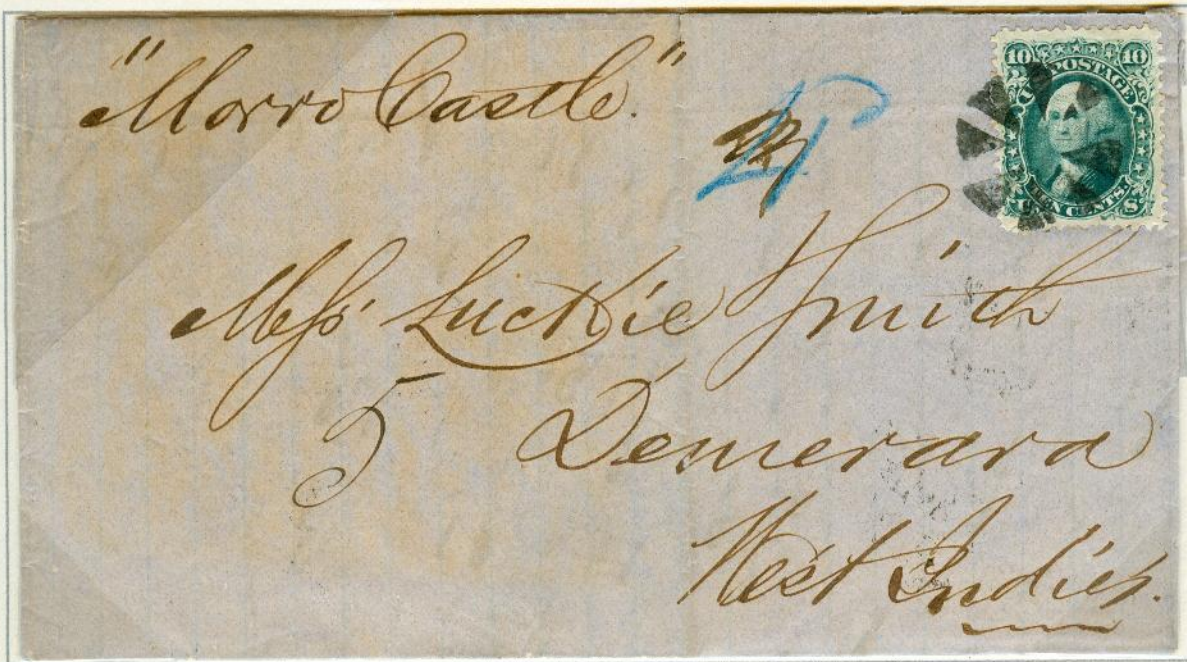
Belgian closed mail

British packet

to **Belgium**

15 cents per 1/2 oz.

1/68 - 3/70



American packet

from NY

to **St. Thomas**

then British packet

to **Demerara, BWI**

10 cents per 1/2 oz.

11/65 - 10/72

less than 5 uses known

during the 1861-68 era

American packet

"PAID-ONLY

TO ENGLAND"

British open mail

to **Spain**

10 cents per 1/2 oz.

9/68 - 1/70



"E" Grill Uses: 10 cent

Northern German Union Mail

Northern German Union
direct mail via Hamburg
to Sweden
16 cents per 1/2 oz.
1/68 - 5/69



Northern German
Union
direct mail via Bremen
to Germany
10 cents per 1/2 oz.
1/68 - 6/70

Northern German
Union
direct mail via Bremen
to Oldenburg
10 cents per 1/2 oz.
1/68 - 7/70
overpaid at old rate
8/53 - 1/68



American packet
 NY to Rio de Janeiro
 French packet to Buenos
 Ayres, Argentina
 25 cents 1/4 - 1/2 oz.
 8/67 - 1/70



American packet
 NY to Rio de Janeiro
 French packet to Buenos
 Ayres, Argentina
 18 cents up to 1/4 oz.
 8/67 - 1/70
 12 cent "E" grill
 is double grilled

British packet
 via Panama
 to New South Wales
 22 cents per 1/2 oz.
 1/68 - 1/70

Note the "via steamer
 per Panama R. Road"
 instruction



"E" Grill Uses: 15 cent

International Destinations

Northern German

Union

closed mail

British packet

to Saxony

15 cents per 1/2 oz.

1/68 - 1/70



Northern German Union

closed mail

British packet

to Sicily

19 cents per 1/2 oz.

1/68 - 1/70



American packet

then British packet

via Panama to Peru

2 x 34 cents per 1/2 oz.

10/67 - 3/70



largest on cover multiple



Northern German Union

closed mail

to Bohemia, Austria e

(Czech Republic)

15 cents per 1/2 oz.

1/68 - 1/70

"F" Grill Issues

Unused, Specimens and Used

"F" Grill Points Down - 9 x 13 mm.: 11 - 12 x 15 - 17 Points - The Smallest and Final Production Grill



e

e



specimen presentation examples with manuscript "x"

ex George Sloan

"SPECIMEN" ty H "Specimen" ty A Specimen" ty A

manuscript "x"

e



e

e

"F" Grill Issues

Major Varieties



imperf pair



vertical misperf



diagonal misperf from
foldover during grilling



scratch under A in POSTAGE



points up grill

e

extra grill in selvage at left e discovery example



5 cent - grill

doubled vertically e



3 cent - grill

doubled horizontally



30 cent - grill

doubled - angled



90 cent - grill

split horizontally



10 cent - grill

doubled - 1 split vertically



triple grills on 12 cent

discovery and second example



e



triple grill on 30 cent

discovery example



triple grill on 3 cent

one split



"butterfly" grills on 3 cent caused by

diagonal & vertical foldovers before grilling



discovery example e



2 cent double grill



3 cent double grill - 1 split



3 cent horizontal



1 cent accordion grill



12 cent accordion grill

"miracle" grills - perfectly aligned extra wide or tall grills

marginal grill

e

discovery example e



15 cent

quadruple split grill



2 cent

double grill

1 quadruple split



double grill - one quadruple split

only recorded example

HIOGO, JAPAN cancel



only one 90 cent cover and one wrapper

fragment are known

dates of sailing prove earliest documented use

"F" Grill Multiples

Unused



ex Metzger



continuous marginal grill in selvage



e



e



continuous marginal grill in selvage
ex Herzog



ex Ishikawa



split grills, pane dividing line
ex Colonel Green



3 blocks recorded e
ex Zoellner



e

4 blocks recorded – only color cancel

"F" Grill Uses: 1 cent and 2 cents

Domestic and International Destinations

drop letter rates
after April 1, 1865
post offices without
carrier service

very thin paper and
normal paper



2 cent circular rate
to Mexico
1/2 real due

drop letter rate
after April 1, 1865
carrier service available



"F" Grill Uses: 2 cents and 3 cents

International Destinations



British mail
via Southampton
to **Ceylon**
2 x 28 cents per 1/2 oz.
3/68 - 1/70

2 cent
newspaper rate
to France



SHORT PAID
8 cent
newspaper rate
to Netherlands

"F" Grill Uses: 3, 5 and 10 cents

Domestic Rates

bootleg use from Umvoti, Natal
carried outside the mail
until reaching Boston
3 cent domestic rate

face cancel on ad cover
West Winsted, Connecticut
4 x 3 cent domestic rate



Wm Wamsley Esq
Hartford
Conn.

3 cent domestic rate
plus 15 cent registry rate
after January 1, 1869



"F" Grill Uses: 5 cents and 10 cents

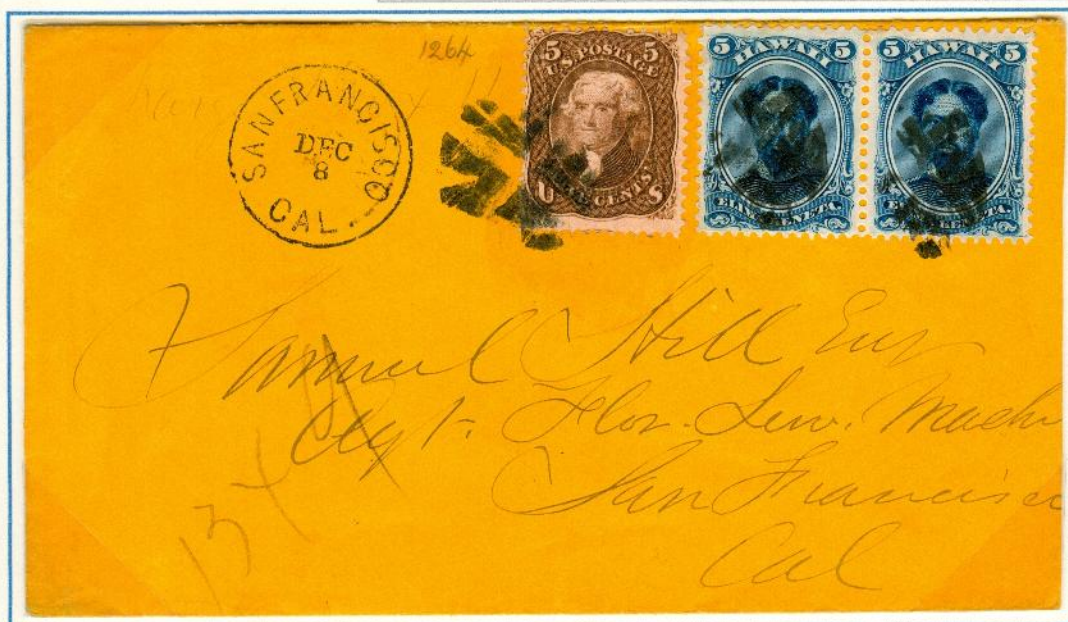
International Originations and Destinations

Northern German Union

direct mail to **Bremen**

2 x 10 cents per 1/2 oz.

1/68 - 7/70



American packet

from **Hawaii**

mixed franking

5 cents Hawaiian local

10 cents American

9/67 - 1/70

paid 10 + 5, not 5 + 10

from **Shanghai, China**

CHINA AND JAPAN /

STEAM SERVICE

American packet

via San Francisco

10 cents per 1/2 oz.

1/67 - 7/75



"F" Grill Uses: 10 cents

International Destinations

American Packet

to Cuba

2 x 10 cents per 1/2 oz.

7/64 - 7/75



American packet

direct to Haiti

10 cents per

1/2 oz.

8/70 - 7/75

from St. Lucia

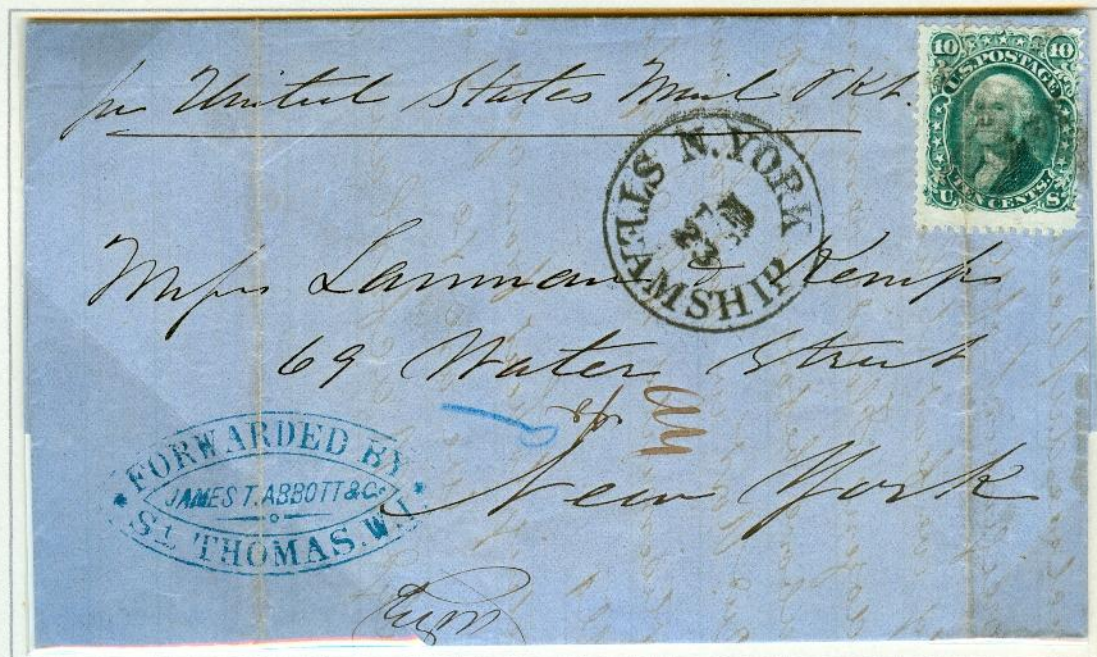
forwarded

via St. Thomas, DWI

N. YORK STEAMSHIP

10 cents per 1/2 oz.

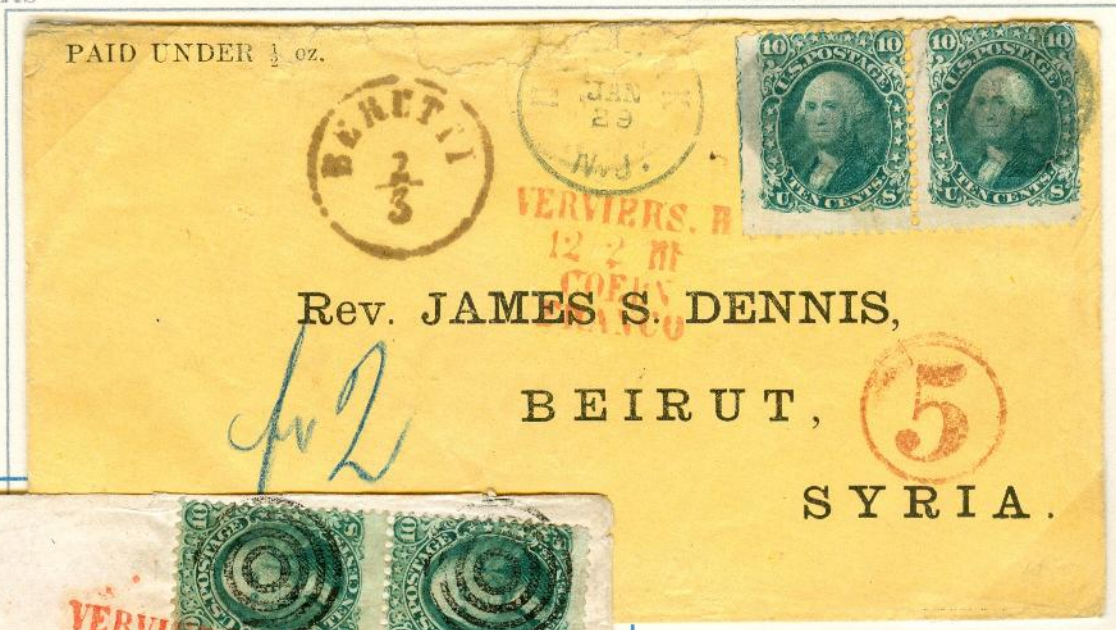
7/51 - 7/75



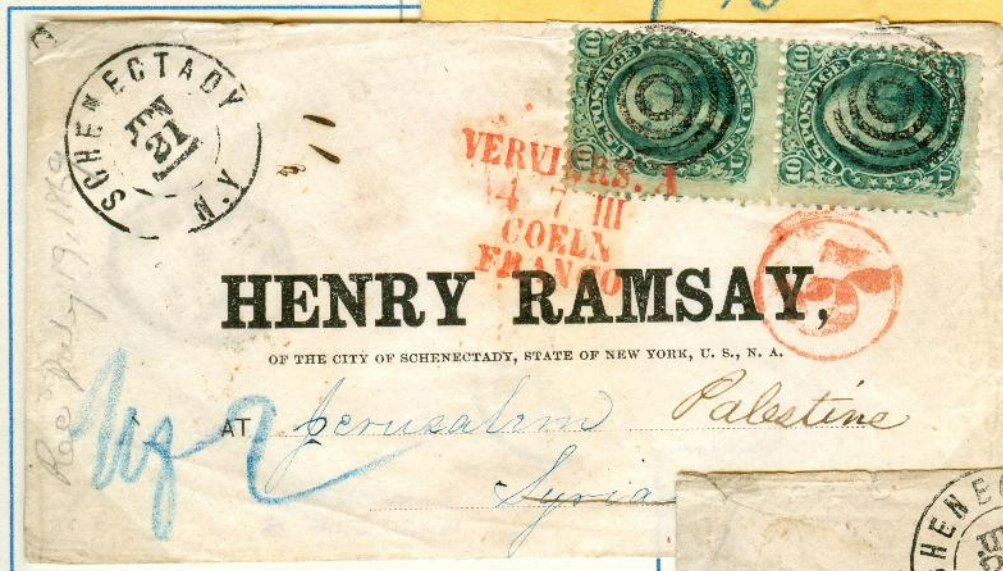
"F" Grill Uses: 10 cents

International Destinations

Northern German Union
closed mail to Syria
20 cents per 1/2 oz.
1/68 - 7/70



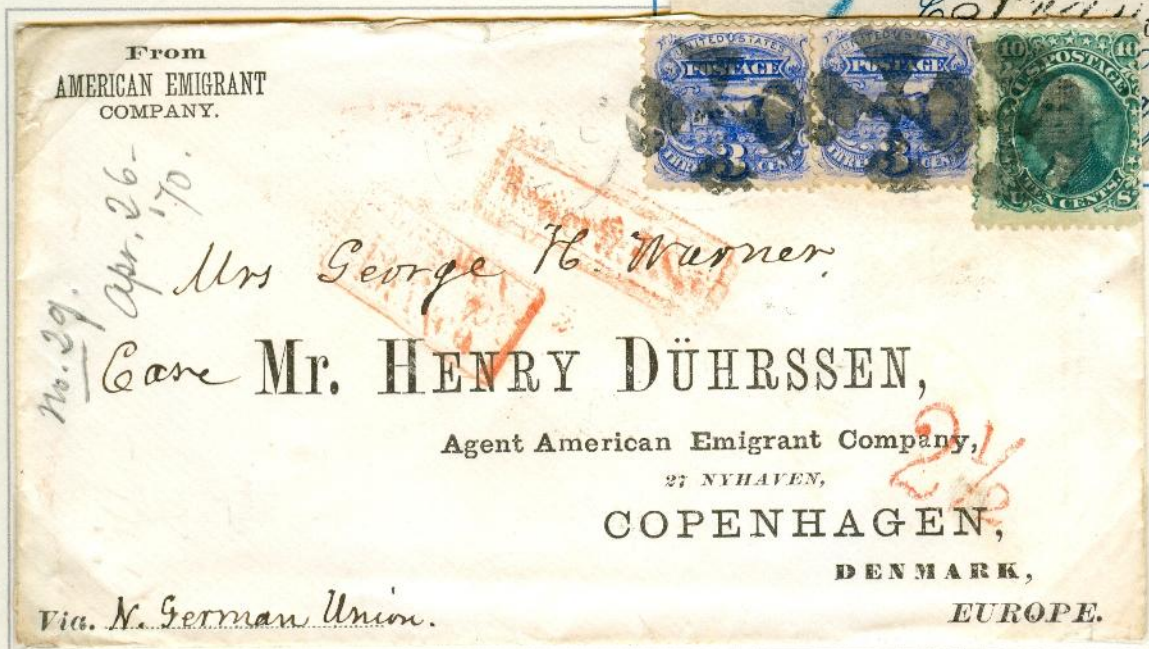
Northern German Union
closed mail to **Palestine**
20 cents per 1/2 oz.
1/68 - 7/70



Northern German Union
closed mail to **Egypt**
25 cents per 1/2 oz.: 12/68 - 7/70
underpaid at the 1/68 - 12/68 rate
current franking for direct mail rate



Northern German Union
direct mail to **Denmark**
13 cents per 1/2 oz.
6/68 - 7/70
overpaid at unpaid rate



"F" Grill Uses: 10 cents and 12 cents

International Originations and Destinations

from **Japan**

American packet via San Francisco and overland

British packet

to **Great Britain**

2 x 10 cents per 1/2 oz.

1/67 - 7/75 : plus

2 x 12 cents per 1/2 oz

1/68 - 1/70



British packet

Italian closed mail
to **Italy**

15 cents per 1/2 oz.

4/68 - 3/70

British packet

to **Sierra Leone**

22 cents per 1/2 oz.

1/68 - 1/70



"F" Grill Uses: 12 cents and 15 cents

International Destinations

mourning cover
British packet
to **Great Britain**
12 cents per 1/2 oz.
1/68 - 1/70



British mail
via St. Thomas
to **Martinique**
2 x 18 cents per 1/2 oz.
1/67 - 7/75

British mail via
St. Thomas or Havana
Santo Domingo,
Dominican Republic
18 cents per 1/2 oz.
1/67 - 7/75



Northern German Union
closed mail to **Italy**
British transit
19 cents per 1/2 oz.
1/67 - 7/75

2 different Baltimore
foreign mail cancels

"F" Grill Uses: 24 cents and 30 cents

International Destinations

Northern German Union
via Hamburg
to Sweden
2 x 14 cents per 1/2 oz.
5/69 - 7/70



American packet
then British packet
via Panama to Peru
34 cents per 1/2 oz.
10/67 - 3/70

British mail
to Gaboon River,
Gabon – reduced from
16 cents 1 month prior
2 x 15 cents per 1/2 oz.
7/75 - GPU/UPU
only recorded use



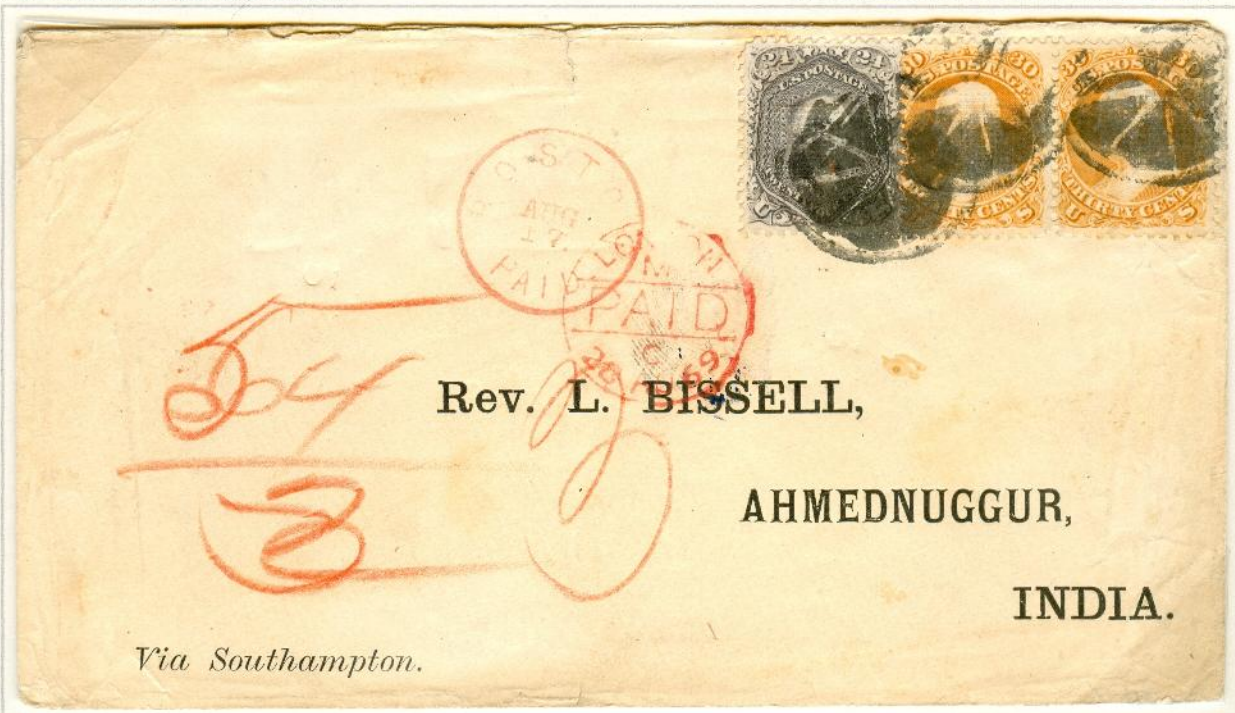
British mail
via Marsailles
to Singapore
36 cents per 1/2 oz.
1/70 - 11/70



"F" Grill Uses: 24 cents and 30 cents

International Destinations

British mail
via Southampton
to **India**
3 x 28 cents per 1/2 oz.
3/68 - 1/70



British mail
via Marseilles
to **Japan** e
42 cents per 1/2 oz.
1/68 - 1/70

British mail
via Southampton
to **Island of Celebes** e
Netherlands East Indies
28 cents per 1/2 oz.
1/70 - 11/70
overpaid at 30 cent French
rate discontinued 1/70



Special Printing: Paris, France 1900 International Exhibition

This was part of the material prepared to be taken to the Paris International Exposition of 1900 and put on display with other U. S. postal artifacts. It was rescued from some remainders but not expertized due to a lack of comparable reference material.



It was submitted to the APS where it was carefully analyzed and then taken to the National Postal Museum and compared to material in the archives. It exactly matched the color and paper of the 1 cent stamps in the archives and received a certificate.

only privately owned example e

Reissues of 1875



3195 issued e



979 issued e



465 issued e



672 issued



451 issued e



389 issued



397 issued e



346 issued

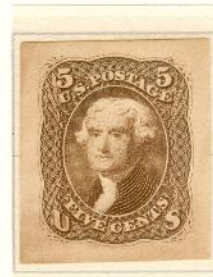


346 issued

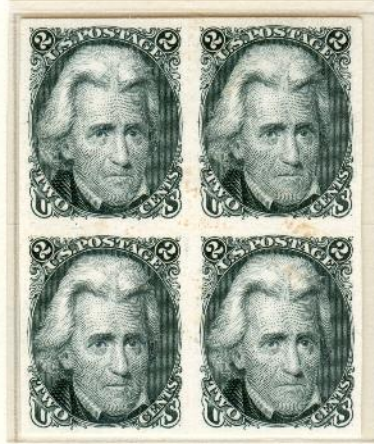


317 issued e

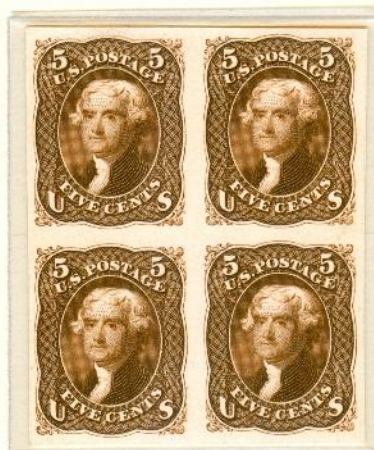
1915 Pan-Pacific Exposition Small Die Proofs – 3 to 5 of each recorded



Most show usual toning of the wide mesh paper – 2 cent, 5 cent, 10 cent e. 5 cent and first 12 cent are First Designs



only recorded block e



not recorded in block form



Produced from existing plates for the Atlanta Cotton Exposition in 1881



one pane of 100 of each value was printed

Produced from existing plates for the Atlanta Cotton Exposition in 1881



one sheet of 100 of each value was printed

85 presentation albums prepared at the request of President Theodore Roosevelt as gifts for dignitaries

FIRST 1861



1866



LAST 1861