Paper and Ink Experiments

Further paper and ink experiments with existing 3 cent plates



red on horizontally ridged double paper

discovery example

brown



red



dark red-brown on green



horizontally laid papers tinted with sensitive ink

brown-red on salmon



green on green



green on white



brown-red on lilac wove papers tinted with sensitive inks



green on yellow



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



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.

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

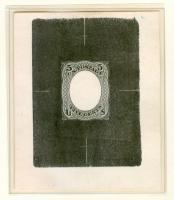
Bi-color Essays to Prevent Reuse

George Jones Proposal of July 20, 1868



lithographed frame

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



vignette printed



colored vignettes - oval ring added - ivory paper





completed essay—negative image vignette printed

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



1 cent frame 14 x 17 points monogram overprint

2 examples recorded



essayed with modified dies

14 x 16 1/2 points

only recorded example

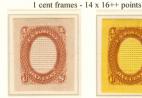


network underprint

2 examples recorded



14 x 17 points



laid paper



wove paper



"Specimen" ty A 14 x 17 points e



"Specimen" ty A 14 x 16 points

manuscript check mark above "Specimen"

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 - points down



3 in 6 bar shield embossed



3 in 7 bar shield embossed



3 in 13 bar shield embossed

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















14 x 17+

variations in grill sizes by number of points

14 x 16++ 14 x 17 14 x 16 14 x 15+ 14 x 15++

"E" Grill Multiples









Unused and Used



ex Caspary, Ishikawa e











two recorded examples e



largest recorded used multiple



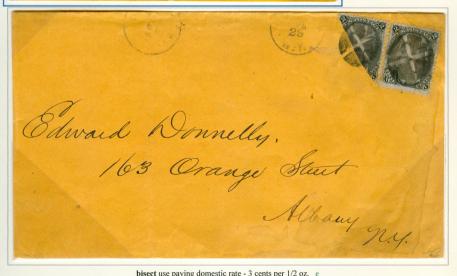
domestic rate 3 cents per 1/2 oz.



Northern German Union British transit

to Germany

15 cents per 1/2 oz. plus 8 cents foreign registry 1/69 - 7/70



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

Belgian closed mail British packet to **Belgium** 15 cents per 1/2 oz. 1/68 - 3/70



Morro Caelle."

Messerara

Mest Endis.

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



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





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



"F" Grill Issues











Major Varieties

imperf pair

vertical misperf

diagonal misperf from scratch under A in POSTAGE

points up grill discovery example









foldover during grilling extra grill in selvage at left e



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

discovery example

one split

"butterfly" grills on 3 cent caused by diagonal & vertical foldovers before grilling











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

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





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

ex Zoellner