Washington & Franklin Coils

Flat Plate and Coil Waste Issues 1908-1915

The **Purpose of This Exhibit:** is to show the development of the Third Bureau flat plate coils in perforated, imperforate and coil waste format from 1908 to 1915. The exhibit will show the development of production for each issue along with the postal uses to domestic and foreign destinations.

Exhibit Plan

- I. Flat Plate Issues: Each section will include production material and postal uses of the perforated and imperforate coil issues. It is organized by denomination and orientation of each issue.
- A. 1908 Double Line Watermark
 - 1) Perforated 12 Issues
- 2) Imperforate Issues
- B. 1910 Single Line Watermark
 - 1) Perforated 12 Issues
 - 2) Imperforate Issues
- 3) Coil Waste Issues
- C. 1910 Single Line Watermark
 - 1) Perforated 8.5 Issues
- D. 1912 Single Line Watermark
 - 1) Perforated 8.5 Issues
 - 2) Imperforate Issues
- E. 1914 Single Line Watermark
 - 1) Perforated 10 Issues
 - 2) Coil Waste Issues
- F. Epilogue: Stickney Rotary Press/Rotary press coils.

Historical Significance

The development of the Third Bureau coil issues is directly tied to the industrial revolution. The invention of vending and affixing machines, and the businesses associated with their use, were responsible for encouraging the production and development of government coils. The following reasons contributed to the development of coils.

- · Vending machines made it convenient for the public to purchase stamps.
- · They reduced the cost of clerks and the branches needed within the city.
- Affixing machines speed up the process of applying stamps to mail.

Coil Development

Coils were made from the same sheets printed to produce sheet stamps, but they came after the series of 1908 was started and were not apart of the original design process. Coils were an adaptation of a stamp design that already existed.

What Is Shown

The exhibit will show production and postal uses of the flat plate perforated and imperforate coil issues.

What is Not Shown

Archival material such as preliminary designs, essays, trial colors, large and small die proofs, and plate proofs were designed and made for the production of sheet stamps, not coils.

Philatelic Importance

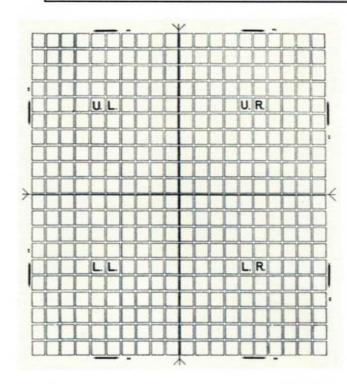
The United States was one of several countries that experimented with, and developed coil stamps around the turn of the century in 1900. The interest in vending machines and their development saw a number of countries such as New Zealand and the Netherlands experiment with stamps used in vending machines. England followed suite with their version of coils, sheet stamps trimmed and pasted together to form coils. The United States took it a step further by developing coil production using imperforate sheets that were perforated, stripped and constructed into the first true coil stamps used in vending and affixing machines. This lead to further development in producing coils and the rotary press machine. The new machine created interest from several more countries which took up the production of coils.

The production of coils also played an important role in creating collector interest in a new variety of stamps. The first two issues of coil stamps were not well received, but by the third issue, collectors realized coils were indeed a different variety to collect. This was due in part to the third issue having gauge 8.5 perforations which was unique to the 1910 coil issue. These perforations were not used for any other format such as sheet stamps or booklets. The production of coils created over 400 new issues to collect along with many different production varieties such as paste-ups, trailer & leader strips, line pairs, shades, design spacing, and printing errors.

Key Items are Matted in Red

Major items are noted with certificate number, while other important items will be identified with an asterisk * to indicate expertization.

Flat Plate Coils



- · The first plates used to produce coils had 2mm horizontal spacing between all designs.
- Coils from the first plates can be identified by 4000 series plate numbers.
- The Star plates soon followed the first plates due to a production problem with spacing.

4973

Production Sequence · Design was printed · Paper was folded Gum applied to paper Paper was unfolded. Paper was perforated and slit into coils.

Flat Plate Coils

- The Bureau produced 5 different issues from 1908 to 1914.
- The coil stamps were produced from existing sheet stamp stock.
- · Production changes made in watermark, perforation gauge, plate configurations, and coil construction created many new varieties.
- A total of 32 different varieties of flat plat perforated coils were issued.

Actual size of the letters.

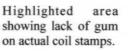
First issue was printed on double line watermark paper.





Post Printing Paper Fold







Enhanced color enlargement with outline of detailed area showing paper folds.

1908 Issue





























The 1908 issue consists of 5 values. The 1, 2, 4, & 5 cent values were issued in vertical format. The 1, 2, and 3 cent values were issued in horizontal format. The 1908 issue was printed on double line watermarked paper.







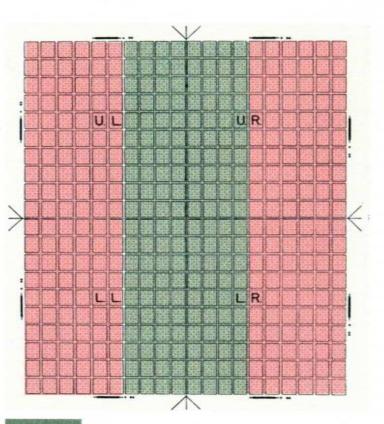
Reverse paste-up, tab with imprint. See next page for details on coil PF 513608 construction.

Perforated Gauge 12

The 1908 issues consisted of five values. The 1, 2, 4, and 5 cent denominations were issued in both vertical and horizontal format. The 10 cent denomination was only issued in horizontal format.

Major Production Characteristics of 1908 Series

- 1) Printed on double line watermarked paper.
- 2) First panes of 400 had 2mm horizontal spacing between designs.
- 3) Later issues of the 1, 2, 3, and 4 cent values were printed on Star plates.
- 4) Star plates had varied spacing of 2mm to 3mm between designs.
- 5) Panes were cut into strips of 20.
- 6) Strips were pasted together by hand and rolled into coils of 500 or 1,000.
- 7) The entire process took 17 workers to complete the task.



Inner 8 rows of plate had 2mm spacing.

2mm

400 Subject Star Plate Pane The shaded areas show how the Star Plate spacing was set up. The idea behind the varied spacing was to solve the paper shrinkage problem. The varied spacing created 2mm and 3mm spacing between stamp designs.







3 mm

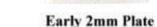
Outer 6 rows on each side had 3mm spacing. 3mm

Bureau Imprints









The 4000 plate number comes from the first 2mm plates used to produce the 1908 issue. PF 561624

erage in a 500 coil.



Discovery copy of unreported plate number.





Plate Numbers Plate numbers identify which plate the issue was

printed on. Plate numbers occur twice on the av-







Usually the left margin is trimmed off closer to the frame line before being pasted together with the next strip. In this case part of the plate number is visible on the left edge of the right stamp.





Guideline & Arrow

The purpose of the guideline & arrow was to show the Bureau workers where to separate the 400 subject pane. The two strips of four show the vertical and horizontal guidelines from the center of the pane.





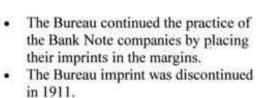
The 1 Cent Foreign Entry

The cause of the 1 cent foreign entry on the 2 cent issue occurred when a Bureau worker mistakenly entered a 1 cent die onto a 2 cent die. The worker tried to erase the engraving lines, but left a number of them behind. This variety only occurs on plate 5299, fourth position down from the top. The enlarged scan shows the extra engraving lines found on this printing variety. PF 319636



New Production Variety

Note, the pinhole in the margins of the separated paste-up. This is a new production discovery where the pinhole has been found on paste-ups with the guideline and arrow from hand assembled coils. It has been determined the pinholes could have been from something that held down the pane of 400 as it was put through the stripping machine. This marking has only been found on the 1908 and 1910 hand assembled coils.



· The reconstructed strips show the full Bureau imprints from the Star plates.

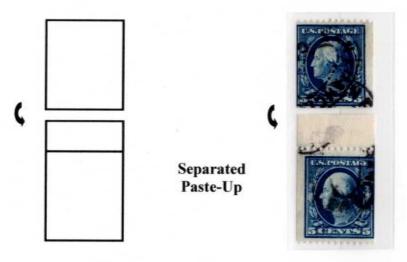










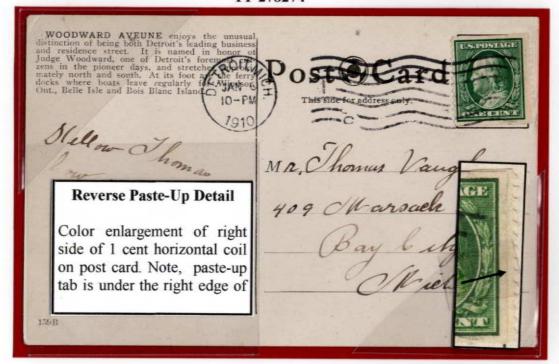


Coil Construction - Vertical Paste-Up

- Step 1: The 400 subject pane was passed through a machine and perforated horizontally.
- Step 2: The bottom margin was trimmed off at the frame line of the design.
- Step 3: The top margin of the pane was trimmed leaving about 1/4 inch.
- Step 4: The sheet was then passed through a machine that cut it into 20 strips.
- Step 5: The bottom of a strip was then pasted over the top tab of another strip.
- Step 6: This process continued until there were enough to make a coil of 500 or 1,0000.
- Step 7: A trailer strip was attached at the beginning and a leader strip at the end.
- Step 8: The long strip was rolled up and sealed by the leader strip.

This process of hand assembly took 17 workers to complete the task.

Only Recorded Use of a Reverse Paste-Up PF 278274





Coil Construction - Horizontal Paste-Ups

The key difference between vertical and horizontal coil construction was the direction the sheet was perforated and which margins were trimmed off. Other wise, the process was the same and took as many workers.



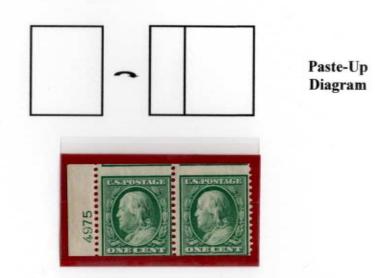
Only Recorded 4 Cent Reverse Paste-Up

The pair on the left is a usual paste-up pair, the pair on the right is the reverse paste-up pair. Note, the arrows point out the tab of the paste-ups.



Reverse Paste-Up Construction-Horizontal Coils

- Right margin of 400 subject pane was trimmed off.
- Left margin was left on the 400 subject pane.
- Panes were cut into strips of 20.
- The right end of the strip was pasted over the tab on the left end of the next strip of 20.



Only Recorded Plate Number with Tab on Left
This plate number pair is from a reverse paste-up strip
of the one cent horizontal coil.

PF 482468

Trimmed paste-up

Trimmed Paste-Up

The top edge of the paste-up strip of four shows how the workers at the Bureau trimmed off the excess paper so the coil edges would line up neater. Due to the hand assembly of the coils the edges were sometimes out of alignment.

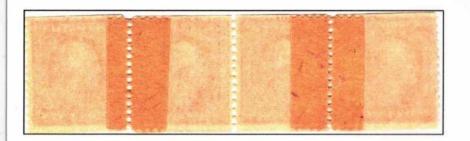
Unique Double Repair Splice

Due to the fragile nature of gauge 12 perforations, the coil would sometimes separate in production. A perforated piece of craft paper was used to repair the break. Note, the thumb print from the Bureau worker who repaired the strip.



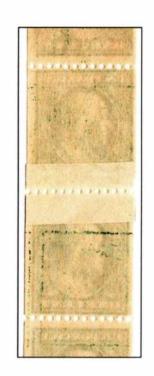
Color photo copy of reverse side of double repair splice. Note, the perforated craft pa-

per used to repair the two breaks.



Splice

Splice



Color photo copy of reverse showing splice repair with a perforated strip of stamp paper.





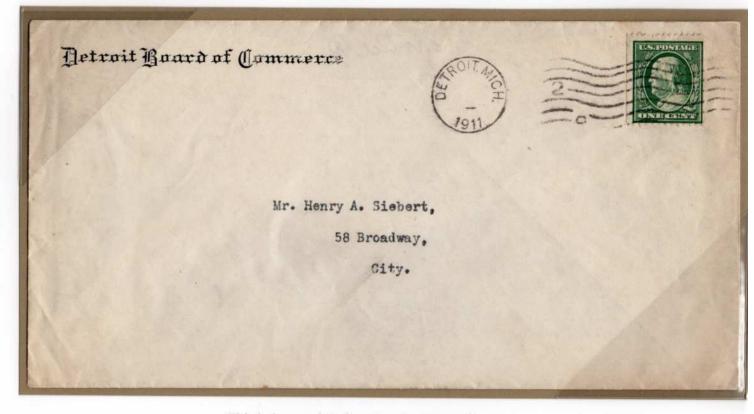
Trailer Strips

Leader & Trailer Strips

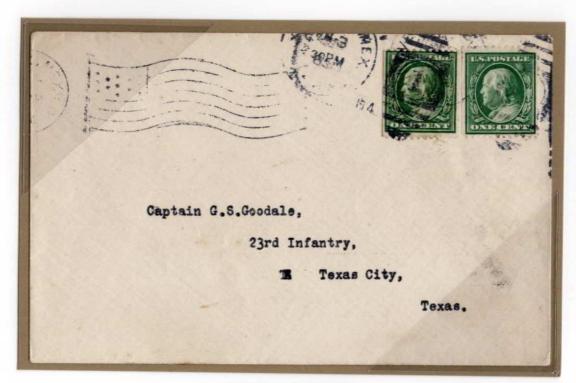
A piece of craft paper was attached at the beginning of the roll and the end. The trailer strip formed the center, or core of the coil. The leader strip was attached at the end and sealed the coil until it was used.



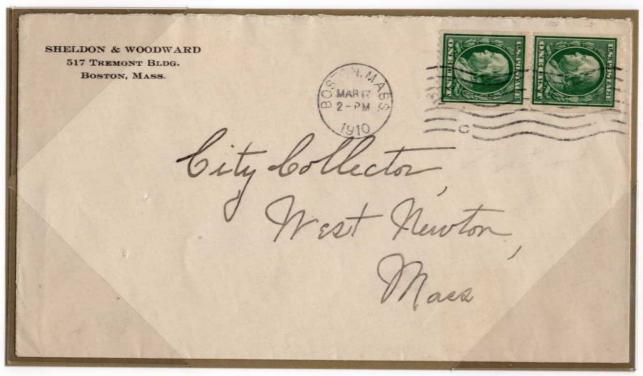
First class, 1 cent per piece.



Third class, printed matter, 1 cent per 2 ounces.



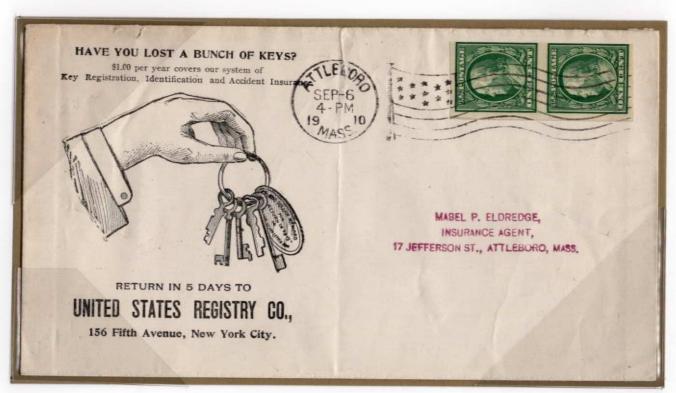
U.S. Postal Agency
First class, 2 cent per ounce. Mailed from
Vera Cruz, Mexico to the United States.



First class, 2 cent per ounce.



First class, 1 cent per piece.



First class, 2 cents per ounce.



Third class, printed matter rate, 1 cent per 2 ounces

Third class, International Printed Matter rate, 1 cent per 2 ounces.

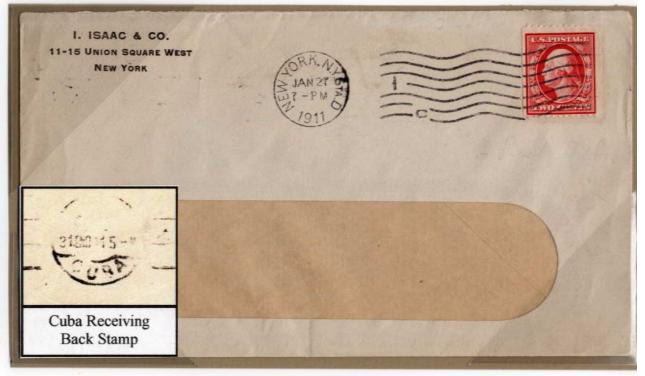


P A Anderson Rydbergshagen

First class, treaty rate, 1 cent per 2 ounces.



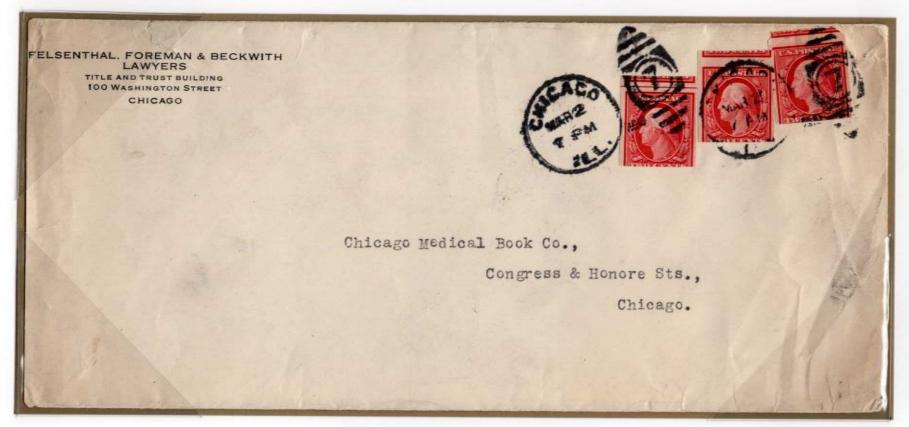
First class, 2 cents per ounce.



First class, treaty rate, 2 cents per ounce.



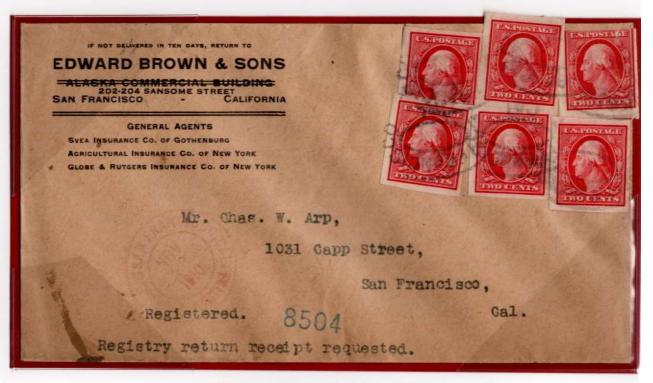
First class, 2 cents per ounce.



First class, triple weight, 2 cents per ounce.



First class, UPU, 2 cents per piece.



Largest Recorded Franking

First class, registered, 2 cents plus 10 cents registry fee. Registry cancel 11/22/1910, San Francisco, California.

Vertical Format



Earliest Documented Use

First class registered, 2 cents plus 10 cents registry fee. March 22, 1912 New York Registry cancel.

Apex 156672

One of 5 Documented Uses



German Treaty Rate

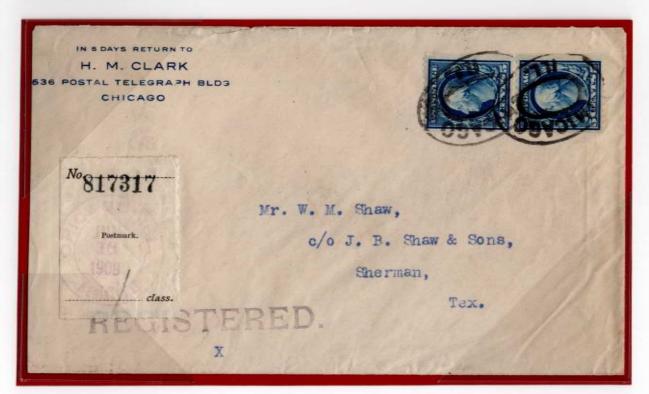
First class, double weight, 2 cents per ounce plus 10 cents registry fee. New York, U.S. foreign oval back stamp, May 11, 1912. The treaty rate was in effect from January 1, 1909 until February 5, 1915.

Warren Babcock, the sender, was responsible for first reporting the AEF booklet panes. He was on the ship to France when he discovered the new booklet panes. Warren became to supplier of these booklet panes to dealers and collectors.



One of 8 Documented Uses

First class, 2 cents per ounce plus 10 cents registry fee. Detroit, Michigan registry cancel, May 16, 1916 PF 461352



Earliest Known Use

First class, 2 cents per ounce, plus 8 cents registry fee. Registry date, June 16, 1909. Receiving back stamp June 18, 1909 Sherman, Texas. One of 9 documented uses.



One of 7 Documented Uses

First class, registered UPU rate, 10 cents registry fee, plus 5 cents for first ounce. New York, New York November 21, 1911 registry cancel.

Horizontal Format

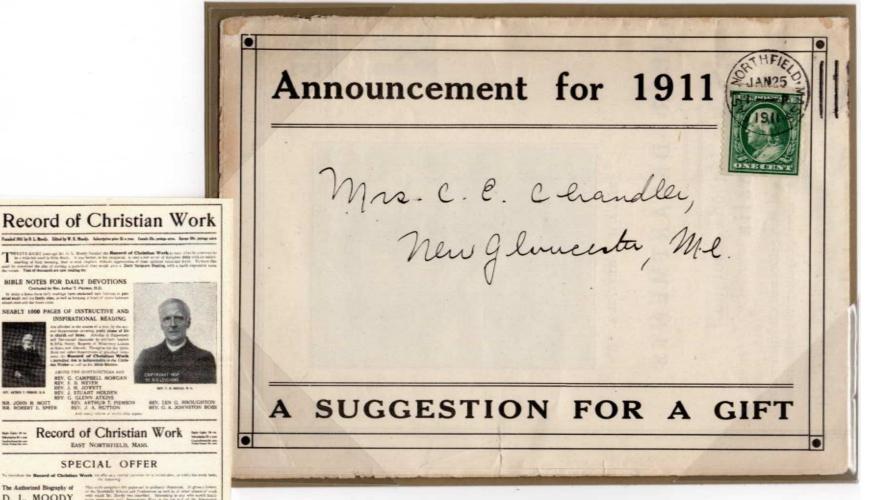
First class, 1 cent per piece.

SPECIAL OFFER

By HIS SON DESCRIPTION PROCE does
See has far Our Delier for our New Solventer, and Twenty-nix Coon come for Postage

D. L. MOODY





Third class, printed matter, 1 cent per 2 ounces. The reduced photo copy shows part of the printed advertisement.

Horizontal Format





Only Documented Use First class, 1 cent per piece.

APEX 213618

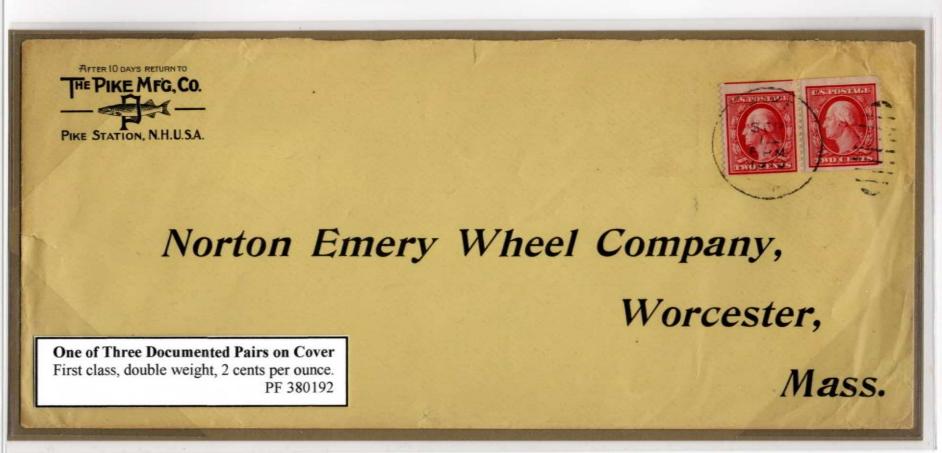
Largest Known Franking on Cover

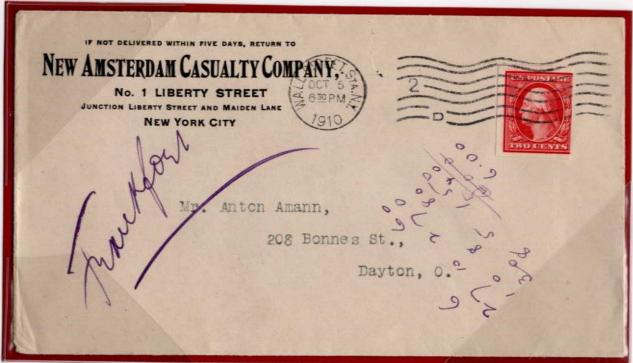
First class, 2 cents per ounce plus 10 cents registry fee.

Horizontal Format



First class, 2 cents per ounce.





One of Four Documented Uses

First class, 2 cents per ounce.

APEX 209367



First class, registered, 2 cents per ounce plus 10 cents registry fee. Registry date stamp, August 26, 1912, Washington, D.C. One of 6 documented uses.

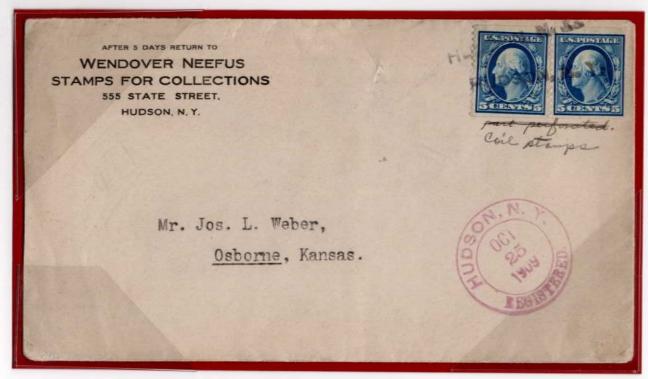
PF 550774



Largest Recorded Multiple

First class, quadruple weight, 2 cents per ounce, plus 10 cents registry fee. Pine Lawn registry cancel, May 31, 1912. **Two of 6 documented uses**. **PF 550777**

Horizontal Format



First class registered, 2 cents letter rate plus 8 cents registry fee.

One of Six Documented Uses PF 205430

Registry Service

The registry fee for first class mail was 8 cents up until October 31, 1909.

Beginning November 1, 1909 the registry fee increased to 10 cents.



First class, 2 cents per ounce, plus 10 cents registry fee. Registry oval cancel on reverse, June 6, 1912, New York, New York.

PSE 1355135

Horizontal Format



Fourth Class/March of 1910

Early fourth class mail before the change in 1913 was sent at 1 cent per ounce independent of distance as long as it weighed 4 pounds or less. This wrapper most likely sent samples of Bell & Company antacid pills. The 9 cents in postage paid for 9 ounces of samples.

Unique Commercial Use



One of Six Documented Uses

First class registered, 2 cents plus 10 cents registry fee. June 1, 1912 Philadelphia registry cancel.

PF 550778

Of the six documented covers known, this is the only commercial use. The remaining examples are stamp dealer mail. The 10 cent coil only exists due to a special order made by Bell & Company to use on their mailings. They only used a few rolls with the remaining stamps being distributed to a few of the larger post offices around the country. Dealers acquired them from these post offices which accounts for the reason why the majority of the covers are stamp dealer mail.

Known Cities With Genuine Uses

Orangeburg, New York
New York, New York
Chicago, Illinois
Philadelphia, Pennsylvania
St. Louis, Missouri
Pinelawn, Missouri
Washington, DC

Perforated 12 Imperforate

1910 Issue

Single Line Watermark













PSE 10878

Perforated Issues

This 1910 issue consisted of three values. The 1 and 2 cent denominations were issued in vertical and horizontal format. The 3 cent denomination was only issued in horizontal format.

Major production details for 1910

- 1) Bureau changed paper from double line to single line watermark.
- 2) The 1910 issue continued to be printed on the Star Plates.
- 3) Experimented with new production process of auto winding.
- 4) It was found the gauge 12 perforations were too brittle and broke.
- 5) This experiment lead to a change in perforation gauge for the next issue.











The line strip of 8 comes from the center 8 rows of the full pane of 400. The center 8 rows of the full pane had 2mm horizontal spacing between stamp designs.



Imperforate Issues
The imperforate issues of 1910 consist of the 1 and 2 cent values in vertical and horizontal format.

1910: Production

Paper/Watermark/Coil Construction

Actual Size of Single Line Watermark Letters

2

,

Regular orientation of letters when viewed from the back of the stamps.

U

S

P

S

Reversed orientation when viewed from the back of stamps.









Single Line Watermark

Paste-up pair, left pair with **normal orientation** of watermark, right pair with **reversed orientation** of watermark.

APEX 227054

1910 Coil Production

This issue was produced by the hand assembly method and by the new Auto-Wound method.

Auto-Wound Process

Step 1: The 400 subject pane was perforated either vertically or horizontally, then the margins were trimmed to prepare for the paste-up stage.

Step 2: The 400 subject pane was slit in half.

Step 3: The half panes of 200 were pasted together until there were enough to make a roll of 500 or 1,000.

Step 4: A piece of craft paper was attached to the beginning and end of the roll to make the trailer and leader strips.

Step 5: The roll was placed on a stripping machine which would cut the roll into 10 coils.

Step 6: The stripping machine also wound the coil automatically into the coil roll. This is the "Auto Wound" process.

The "Auto Wound" process is what caused many of the coils to break during production because the gauge 12 perforations were too weak to handle the tension of the machine. This is what lead to a change in the perforation gauge for the new 1910 series.









Plate Numbers

Plate numbers identify the plate the issue was printed on. In the case of the Star plate a small star was placed beside the plate number.







Bureau Imprints

The Bureau continued to place imprints in the margins. This practice continued through the 1910 series.

















Hand Assembled







Holes

Guideline & Arrow

The purpose of the guideline & arrow was to show where the panes of 400 were to be separated. Note, the pin hole at the bottom and top of the 1c paste-up.

New Production Variety

These pin holes may have been made from the pane of 400 being held in place while the sheet was stripped on the machine. It has only been found on hand assembled paste-ups. The hand assembled paste-up has these marks while the Auto-Wound example on the far left does not.





Hand Assembled Paste-Up

Note the difference in the uneven edges. This 1 cent paste -up pair is from the 1908 series and is shown for a comparison to the 2 cent pair below from the 1910 issue.

1910 Issue





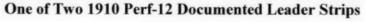
Auto Wound Paste-Up

The 1 cent pair shows the clean, neat, straight edges that match up exactly. This characteristic is evidence of the "Auto Wound" process.

Leader & Trailer Strips

A piece of craft paper was attached at the beginning and end of the roll of the coil stock. Trailer strips were at the beginning and formed the center or core of the roll. Leader strips were at the end and had printed information on the coil as far as how many, 500 or 1,000, and the denomination of the stamps.





Auto-Wound Process

- The green imprint, MABRY, HYATT, identify the Bureau workers who inspected the coil.
- Note, the green imprint, AUTO-WOUND, was added to the black imprint identifying the denomination, orientation, and how many stamps in the roll.
- Note, the straight edges of the leader match the edges of the stamp. This is a distinct feature of the Auto-Wound process.
- Very few leaders and trailers exist due to the nature of the weak perforations.
- The tension of the machine when it cut the roll into strips and wound them into coils caused the perforations to break frequently.



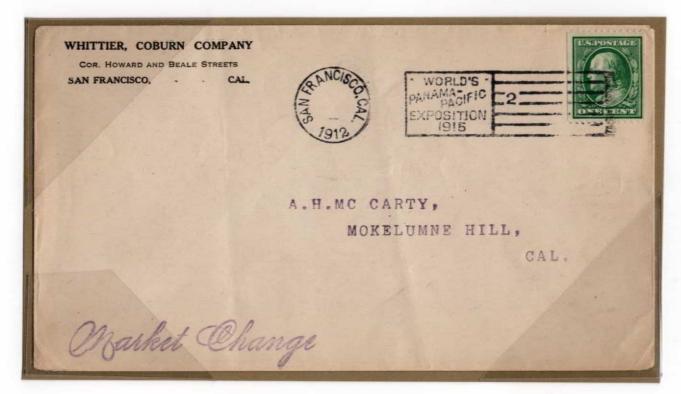
Trailer Strip with part Bureau imprint

First class, 1 cent per piece.

Vertical Format

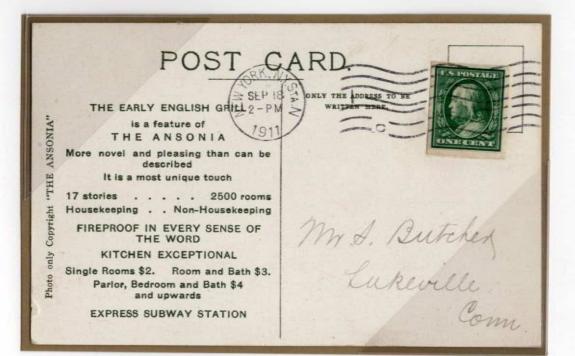


First class, 1 cent per piece.



Third class, 1 cent per 2 ounces.







Largest Known Franking
First class, 2 cents per ounce, plus 10 cents registry fee.

Vertical Format



Third class, printed matter, 1 cent per 2 ounces.

International Printed Matter Rate

If the message on a post card was 10 words or less, it could be sent at the international printed matter rate of 1 cent per piece.



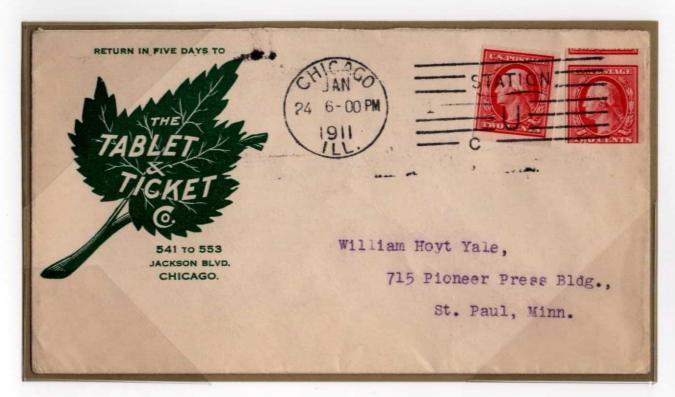
First class, UPU rate, 5 cents per first ounce.



First class, 2 cents per ounce.



First class, double weight, 2 cents per ounce.



First class, double weight, 2 cents per ounce.



Mixed Franking 1 Cent Imperforate Sheet Stamp & Two Cent Imperforate Coil First class, 2 cents per ounce, plus 10 cents registry fee.



Motala

Liveden

German Treaty Rate

656- Farragut av.

Policaho &

Yved MT. 1680

First class, German treaty rate, 2 cents per ounce if carried on a German Steamship.

J. S. BACHE & CO.
NEW YORK.

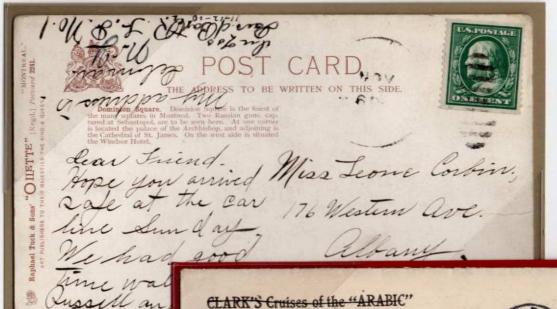
January

January

January

January

Horizontal Format



First class, 1 cent per piece.

Earliest Documented Use

First class, 2 cents per ounce.

Return in Five Days to

PF 167963

L. B. DOVER

Postage Stamps and Supplies For Collectors

ST. LOUIS, MO., U. S. A.

Lunn

St. W. Lorcher & les.

St. W. Lorcher & les.

217 Montgomery Street

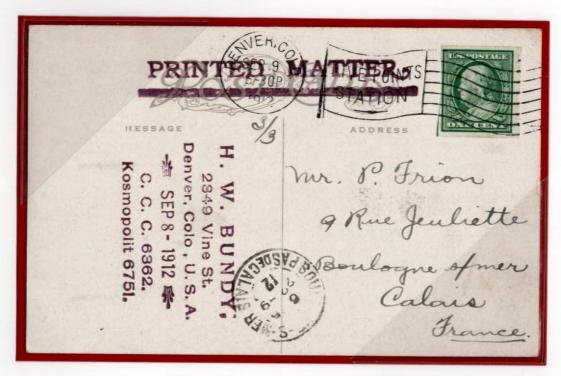
Low Branciss Cally.

- ANNEX ST

Jac. Mc Guire

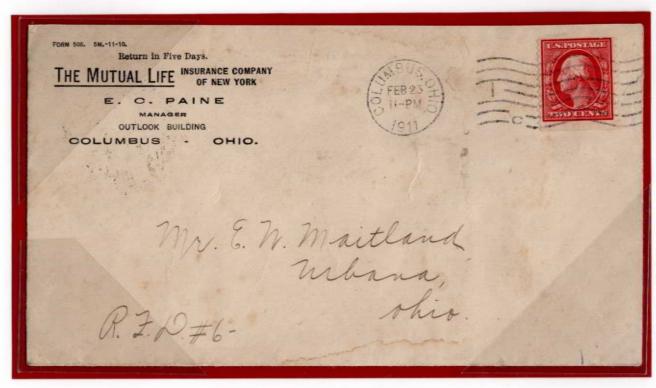
1 cent per 2 ounces.

Third class, printed matter,
1 cent per 2 ounces.



One of Two Documented Uses
Third class, 1 cent per piece, International Printed Matter.

Horizontal Format



One of 6 Documented Uses

First class, 2 cents per ounce.

PF 112562

The population of the 2 cent single line perforated 12 horizontal coil is small due to the very short time span it was available for use. There were only six weeks between the issue dates of the 2 cent perforated 12 coil and the new 2 cent perforated 8.5 coil of 1910. Another factor is the early coils from the first three issues were sold primarily to businesses who ordered them from the Bureau. These factors contributed to the small number of this particular coil being used on mailings.

Dates Issued by the Bureau

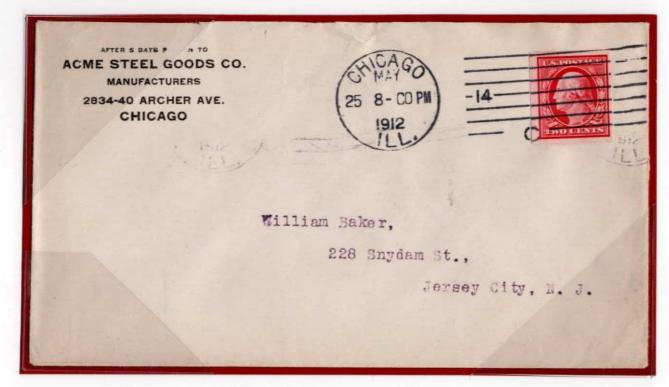
1910 perforated 12 coil 11/1/1910

12/16/1910 1910 perforated 8.5 coil

Earliest Documented Use

1910 perforated 12 coil 1/4/1911

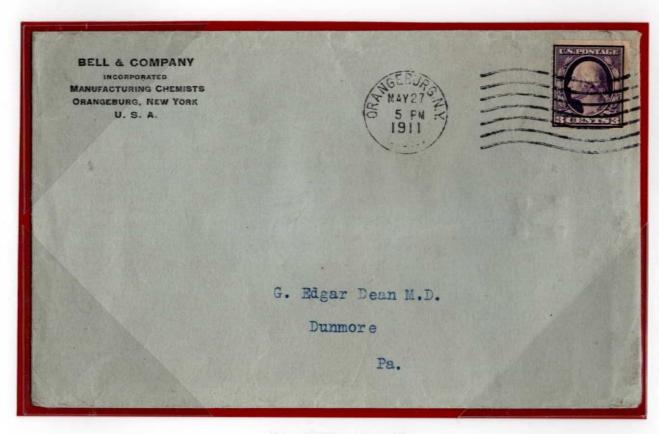
1910 perforated 8.5 coil 12/27/1910



One of 4 Documented Uses

APEX 155160 First class, 2 cents per ounce.

The "Orangeburg Coil"



Fourth Class Samples

Fourth class, 1 cent per ounce, independent of distance equal to or less than 4 ounces.

PF 253984

One of 16 Documented Uses

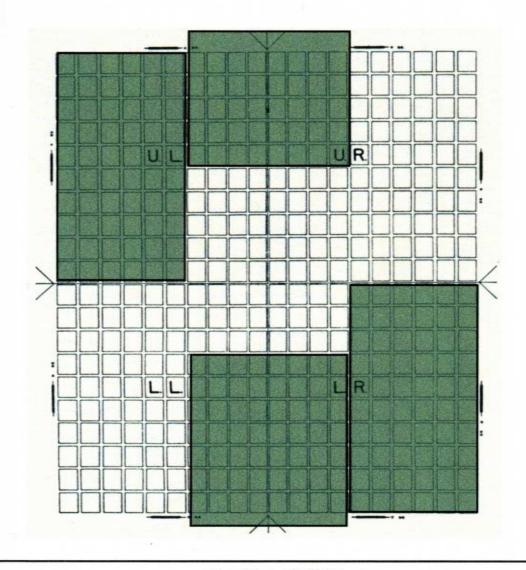
The Bell Pharmaceutical Company ordered the 3 cent single line horizontal coil to use on their mailings of samples, or antacid pills, to doctors and pharmacists. Companies had the option to special order stamps from the Bureau in the format they desired.

The 3 cent coil from 1910 and the 10 cent coil from the previous issue only exist due to this company ordering these stamps in coil format to use on their mailings of samples.



The metal tin above is what they sent the antacid pills in through the mail. Over 90% of the stamps are damaged due to being put through the machine to cancel the stamp. The label is from one of their bottles of pills.

1910 Flat Plate Coil Waste



Flat Plate Coil Waste

- Coil Waste is defined as excess stamp material intended for coil production that ends up being produced into sheet stamps.
- The highlighted areas of the Star plate show the locations of the next 4 pieces of coil waste.
- The Star plates were designed with varied spacing.
- The inner 8 rows had 2mm horizontal spacing between stamp designs.
- The outer 6 rows on each side had 3mm spacing between stamp designs.
- The private vending machine companies had trouble with the varied spacing.
- The Star plate was used to produce the 1910 perforated gauge 12 coils.

Imperforate Coil Waste

- The private vending machine companies had a problem with the varied spacing of the Star Plates.
- The Bureau made an attempt to accommodate the United States Automatic Vending machine company by cutting out the center 8 rows of the pane of 400.
- · The center 8 rows had 2mm horizontal spacing between designs.
- · The USAV machine company made their private vending coils from the center 8 rows.
- Soon after these were produced the Bureau changed the plate layout to a uniform design spacing of 2.75mm.
- These new "A" plates took the place of the Star Plates
- · This solved the problem for the private vending machine companies.
- · The left over imperforate pieces were sold at the Washington D.C. post office as sheet stamps.



Reported Numbers, Positions, and Condition					
Number	Тор	Bottom	Total		
5620	1-M	1-M	2		
5631		1-U	1		
5639	1-M		1		
5644	1-M		1		
5647	4-M	1-U	5		
5651		1-U	1		
5673	1-M		1		
M=Mint	12				





Upper Left/Lower Right Corners

The private vending machine companies had a problem with the varied spacing on the Star Plates. The Bureau cut out the center 8 rows and took the left over corners and perforated them into panes of 60. These panes were then sold at the Washington D.C. post office in 1912. The general public was unaware of this coil waste variety until years later.

This variety of coil waste is not known used on cover.

Existing Plate Numbers

The following plate numbers have been reported for the perforated panes of 60 and imperforate pieces from the center of the full pane of 400.

5603 5604 5605 5607 5620 5622 5631 5632 5639 5640 5643 5644 5647 5651 5672 5673









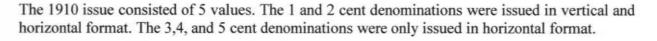
1910 Issue











Major production changes for 1910 perf-8.5 series.

- 1) Perforation gauge changed from 12 to 8.5
- 2) The new "A" plates had a 2.75 mm horizontal spacing between all designs.
- 3) The 400 subject panes were now cut into two 200 subject panes, then pasted together until there were 500 or 1,000 subjects in a row.
- 4) The roll was then slit and wound into coils of 500 or 1,000.
- 5) Entire process now took just 2 workers.



Gauge 12 Perforations



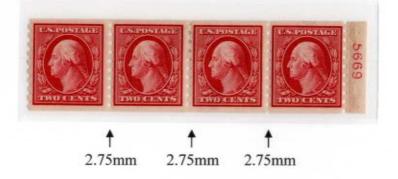
Gauge 8.5 Perforations

First Major Production Change

The Bureau realized the gauge 12 perforations were too brittle for the auto-wound process because they broke frequently in production. By changing the gauge to 8.5 it solved the problem.

The 8.5 gauge perforations also convinced collectors that coils were indeed a different variety to collect because they were only offered in this format.

"A" Plate



Second Major Production Change: Plate Design

The Bureau used 3 plates to produce the 1910 coil issue.

- Star Plate: It has a varied spacing between designs of 2-3mm
- "A" Plate: It has a consistent spacing of 2.75mm between designs.
- Provisional Plate: It also has the same spacing of 2.75mm between

This change was to correct the spacing problem so vending machines could dispense coils without cutting off any of the stamp design.

Plate Markings

There are 3 types of key plate markings found on this issue.

- Guideline & Arrow, Guideline
- The Bureau Imprint



Plate Number







The purpose of the guide line & arrow was to show the Bureau worker where the 400 subject pane was to be separated.

Star Plate

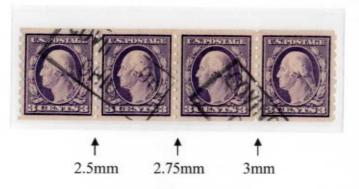






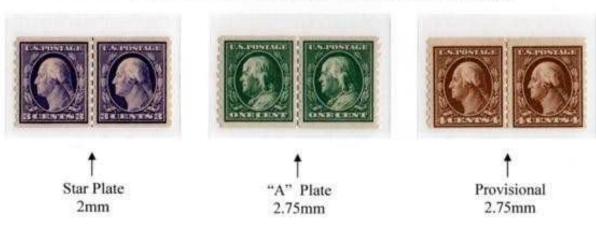
Plate Finisher's Initials

The plate finisher was responsible for removing imperfections from the plate. The initials occur once in the bottom right corner of a 400 subject pane.





Guide line pairs from the Star Plates and the two new plates, "A", and Provisional, will have a distinct difference in horizontal spacing between stamp designs.



The Bureau Imprints

The 1,2, and 5 cent values were printed on the new "A" plates. The 3 and 4 cent values were printed on the old Star plates and the new provisional plates. Examples of the 3 and 4 cent values on provisional plates are quite scarce.



The reconstructed 1 cent strip shows the complete Bureau imprint for the 1 and 2 cent values of the "A" plates.

The reconstructed 4 cent strip shows the complete Bureau imprint for the old Star plates.



The imprint for the 5 cent value was abbreviated. It only had the prefix, "A" and a number.



Red Violet Shade PSAG 563953







510

Plate Numbers

"A" Plate

Star Plate



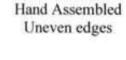
Provisional Plate



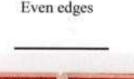
Plate numbers identify which issue the coil was printed from in production.

- · Star plates and "A" plates: 5000 series plate numbers
- Provisional plates: 6000 series plate numbers, 3 and 4 cent values only.

The 6000 series plate numbers are quite scarce. There are 3 documented examples of the 4 cent provisional plate number. One 6002 and two 6004 plate numbers.







"New Process"





Third Major Production Change: Paste-Up Construction

- The previous two issues were "hand assembled" as discussed before.
- The new process started as an experiment with the 1910 perf-12 issue.
- It continued with the new perf-8.5 issue of 1910.
- The 400 subject panes were slit in half and then pasted together.
- · The roll was then slit into 10 coils by the "Auto Wound" process.
- In some cases the two half sheets didn't line up and a "Step", or uneven edge occurred.
- These edges were still parallel with each other.

1910: 1c Issue





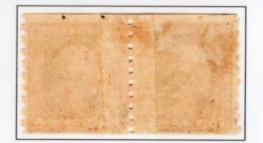




Photo copy of splice repair

Bureau paste-up for comparison

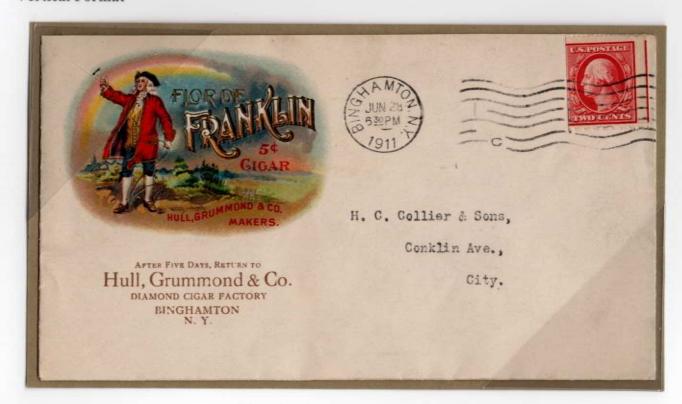
Splice Repair: The coil broke during production and a perforated strip of paper was used to repair the break. This is a very uncommon occurrence with 8.5 gauge perforations





Largest Known Franking on Cover

First class, 2 cents per ounce plus 10 cents registry fee. Registry date stamp Nov. 4, 1912, New York, N.Y.

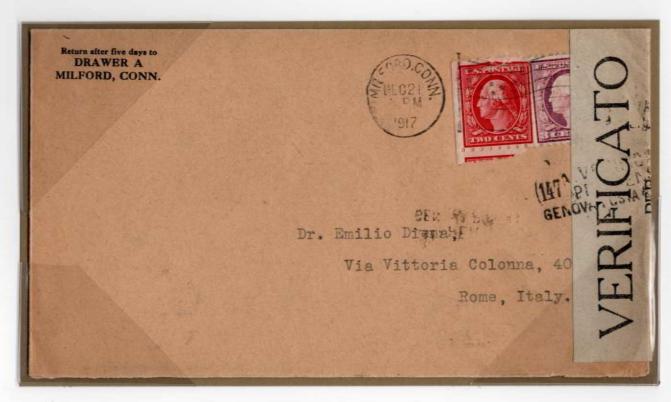


First class, 2 cents per ounce.

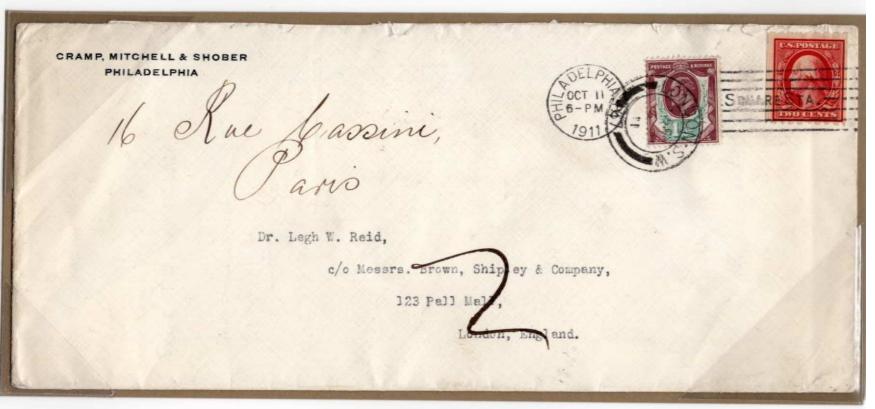


Largest Known Multiple on Cover

First class, double war rate, 3 cents per ounce, plus 10 cents registry fee. Registry back stamp, Hartford, Conn., Jan. 26, 1918



First class, UPU rate, 5 cents per first ounce.



Treaty Rate Forwarded at UPU Rate

First class, treaty rate, 2 cents per ounce. The 1.5 pence stamp added to make up the 3 cents needed to forward the letter at the UPU rate of 5 cents per ounce.

Remailed Receipt

First class, 1 cent per piece.

- · Electric bill notification
- Received 11-1-1912
- Presented and paid 11-5-1912
- Remailed receipt 11-9-1912
- Received by customer 11-11-1912



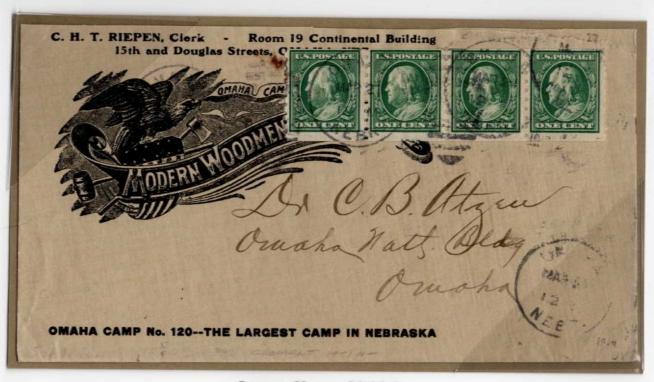




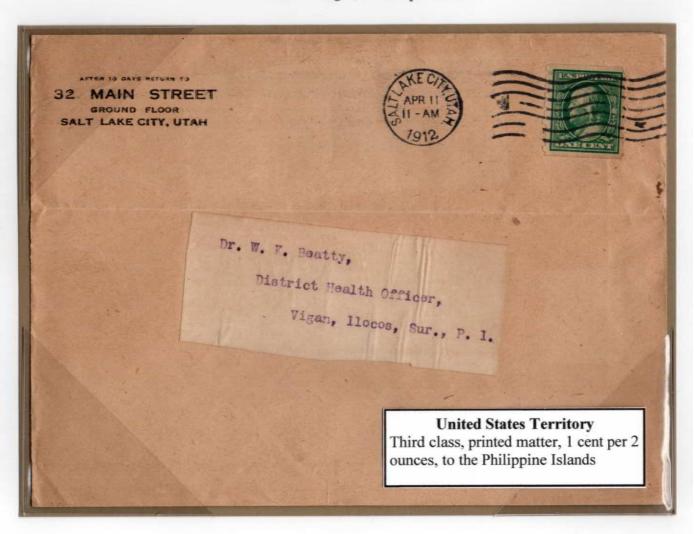


First class, 2 cents per piece. Oversize cards were charged the 2 cent letter rate.

The reduced image shows the front and back of the card in expanded format.

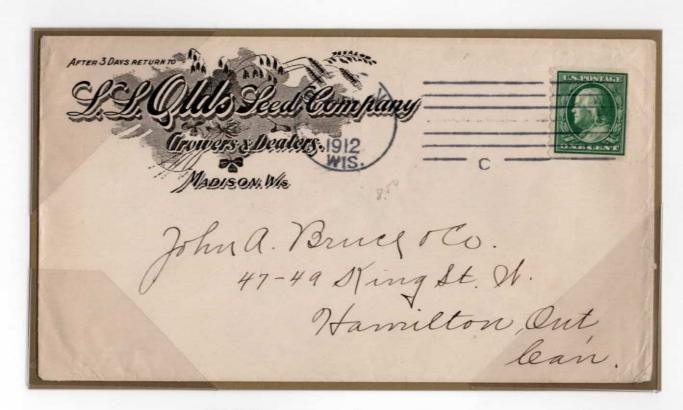


Largest Known Multiple
First class double weight, 2 cents per ounce.

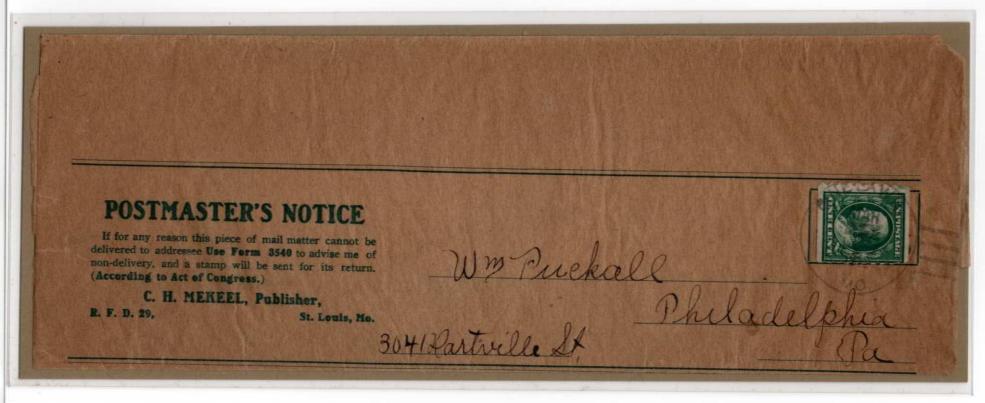




Line Strip of 3
First class, UPU, 5 cents per ounce.



Third class, treaty rate, 1 cent per 2 ounces.



Third class, printed matter, 1 cent per 2 ounces.



United States Mail Agency

First class, 2 cents per ounce. The United States ran a full service post office during the occupation of Vera Cruz from April 21,1914 until November 22, 1914.

APEX 198326

1910: 2c Issue Domestic

Horizontal Format

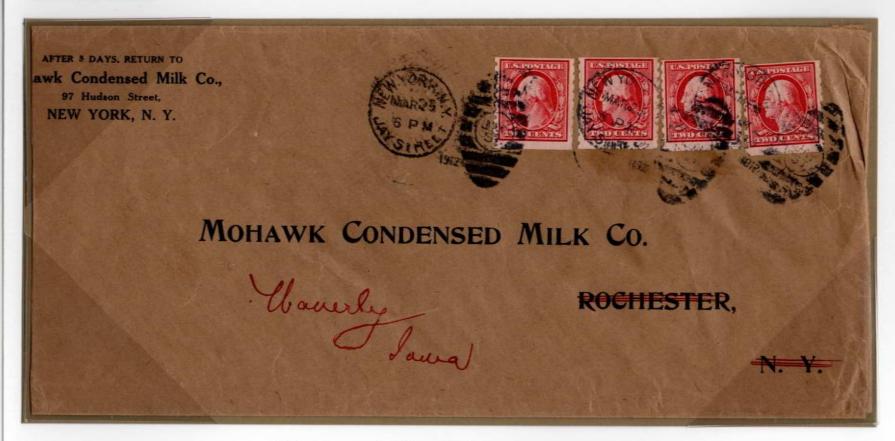


First class, double weight, 2 cents per ounce.

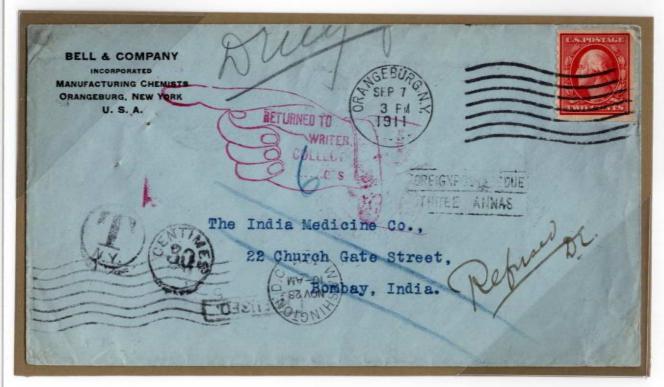


Largest Known Multiple on Cover

First class, 2 cents per ounce plus 10 cents registry fee. Registry back stamp, Manchester, Michigan, April 25, 1911



First class, quadruple weight, 2 cents per ounce.



First class, UPU rate, 5 cents per ounce. Short paid, postage due 3 plus 3 cents penalty.





Auxiliary Receiving Markings

- Received DLO Bombay 10/11/1911
- Refused: RTS
- Received DLO Washington D.C. 11/27/1911
- Refused: RTS 11/28/1911
- Received Orangeburg, N.Y.



Largest Known Franking on Cover

The ten 2 cent coils pay the early fourth class rate of 1 cent per ounce. Early fourth class material could weigh up to a maximum of 4 pounds and was charged at the rate of 1 cent per ounce. As of January 1, 1913, the new Parcel Post category went into effect with rates based on 8 different zones according to the distance the item would travel.



Sea Post

First class, UPU, 2 cents per piece.

- · Posted on the High Seas in Jamaica, given to Purser.
- Mail posted on ship must have stamps from the country of it's origin.
- The "Almirante" was a United Fruit Company ship from the United States.
- Circular date cancel, "Transito, Colon September 29, 1911".
- · "Transito" meaning "Passing Through" Colon, Panama.

1910: 3c Issue Domestic

Horizontal Format



First class, war rate, 2 cents per ounce plus 1 cent war tax.



Largest Known Multiple on Cover

First class, 2 cents per ounce plus 10 cents registry fee. Registry back stamp Saint Louis, MO., April, 19, 1912