Checked by
Doris Burr
11/3/50
handwriting
Cheeks
Dixon and Wintringer
Builders of all kinds of
Glass House Furnaces
Lehrs and Annealing Ovens.
South Side
Pittsburgh
Pa.

see Am. Paty Journal
Com Flint
Kiln
Green
True Blue
Purple 
Amber
White
Purple
Black
Ruby Gold
" Copper
Uranium
Gold's Stone
Batch

Clay
Rosin

Blowing Irons
Blooms of Phone

Bezow

Brock, Rupert

Brown, Harvey

Brooks, James

Brooks, B. J.
Cost of Ba

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Unit</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Si</td>
<td>3</td>
<td>kg</td>
<td>39.00</td>
</tr>
<tr>
<td>Pb</td>
<td>54</td>
<td>kg</td>
<td>18.16</td>
</tr>
<tr>
<td>K₂CO₃</td>
<td>5.71</td>
<td>kg</td>
<td>13.22</td>
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<tr>
<td>Na₂CO₃</td>
<td>2.7</td>
<td>kg</td>
<td>3.20</td>
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<tr>
<td>NH₄Cl</td>
<td>2.4</td>
<td>kg</td>
<td>1.80</td>
</tr>
<tr>
<td>Mn</td>
<td>0.1</td>
<td></td>
<td>0.06</td>
</tr>
<tr>
<td>As</td>
<td>0.05</td>
<td></td>
<td>0.05</td>
</tr>
<tr>
<td>Bone</td>
<td>0.1</td>
<td></td>
<td>0.10</td>
</tr>
</tbody>
</table>

Total metal money: £75.63

2003 £75.63.00

Corrected lessens cost
Ba. Common Flint

1200 Sand
330 Lead
230 Pearlash
160 Soda Ash
80 Mr. Soda

1" ea. Mn. As. and Borax
Little Zaffre

This Ba. has run
for years and given
Perfect Satisfaction

Considerable heat
is required

mill

7

Mr. Bin  Ba. mix, dry ground  Sand

sulphuric acid
coloring
pearlash
lead
sand

Bin
Sand used is from Berkshire Glass Sand Co., Cheshire Mass.
Geo. Wm. Gordon
Grade 40XXX
Feb 14. 85
40000" @ 6.50 ton 130.00
Non Peliticler

3/31 1886 (40xxx)
200,000 a. 6.50 650.

Dry and sift.

Complements.

[Unreadable text]
Lead

Look out for Silver
Rob't Colgate and Co.
N.Y. City
Rec'd 6 lb. Lead 2/14 '86
30 lb. 14" a 5
150.70

Bradley M'n' Lead Co
181 Water St N.Y.
11/24 '84
575 lb. C.T. Lead 5 ½

Chadwick Lead Works
Boston
6400 Lb. Litharge 5
9/25 '84

Found Ag in Chadwick's Lead and he cabled to Germany for pure pig

New Eng. uses 2 tons Pb ea. week
Comparing uses 3 tons Pb ea. week coming lead

Lead

Thos. Adkins

Smeathwick
Near Birmingham
England.

Have manuf. over 50 years

Wing & Evans Ltd.
92 William St.
Red lead for kiln metal

8 casks at 83 8/8

3/24/86 R. Ogilvy & Co.
287 Pearl St.

2 casks R. F. Hoff Lead

9 3 2
9 8 7
19 19 a 6 115.14

Chadwick Lead Works
175 High St (Fort Hill Square)

Boston

2. 6 '86 3651" a 5 3/8
2. 15 '86 3608" a 5 3/8
3. 20 '86 3581" a 5 3/8
3. 13 '86 3871" a 5 3/8
3. 10 '86 4217" a "
3. 27 '86 4047" a "

19.6 24
193.93
193.47
230.68
232.88
217.74
237.21
227.65
I read

Impurities aq. cobalt.

If oxygen is required, it can be got by KNO₃ or Na NO₃.

2 I. M. 2 N. K aq. 0.28 7.43
Pearlash K₂CO₃
Sal. Tartar Carb. Potass
Chlorides had
Sulphates had
Sulphates had.

J.L. and J.S. Riker 3/25 '85

"We're at our expense if
you want 10 casks
1000 ea @ 5 1/2 & 1/6"

A. Klipstein
52 Cedar St. N.Y.

21 Casks Sal Tartar
20942" N 5 3/4
Gtge 11.00

Edwd Hill
25 x 27 Cedar St.
N.Y. City

2 Casks Carb. Potash
1469" 5 3/8
f.o.b.

Harrison Bros. & Co
117 Fulton St. N.Y.

Sal. Tartar .07
Tearlash
Salisbury and Austin
Eng. Ref. 4 A Sh
07
Brown
Tearlash
Nichols
Carb. Potash 6½
Croton Laboratory
2/25 '86 A Kligstein
2.5 Cals Acid Tartar
25/160° N 5 ½ 1383.80
cartage 13.25
6 paid $12.40

$2.586
10/1/19

$3.268
Soda Ash

3/31 1885
J. L. and D. S. Riker
13 Casks Soda Ash "Deacons"
225.24" x 137/4 for 48%
f.o.b.

Wing and Evans

4 Bbls Solway 58% Alkali
121.9" x 1.45/48% 21.36
less 1% cash 12.1
21.15

Wing and Evans

"Brunner Mond "460 A.D."
Northwick Eng?

The above is represented
by W. K. E. 58% Alkali
160 for 48%

3/1 86 J. L. D. S. Riker
13 Casks Deacons 58% Soda Ash
197.2.16
8.2.16

189.0.6
21.17.4" x 136.6 for 48% 332.61

Lighterage 6.64

30 days in U.S. Gold 339.25
25 Poga

20 Pogo

Boo and Pogora

1 + 2 + 3 = 5
10 + 10 = 20

2 + 3 = 5
0 + 1 = 1

12 + 12 + 12 = 36
1 + 2 + 1 = 4

Message to the President

[Handwritten notes and calculations]
Nitrate of Soda
2/10 '85
J. L. and D. S. Riker
45 Cedar St.
N.Y.

52 Bags
14741” @ 2.20 $324.80
Extra bags and rebagging 9.36

$339.66

9/25 '84
Barrelle and Renwick

50 Bags
14531” @ 2.20 $319.68
Lighterage 7.50

3/23 '85 Same as above

50 Bags 15592”
Jan. 1 ½% 234
15358” 2.55 391.63
Less ½% 1.96 389.67

Lighterage 7.50 397.17

Weighed by Geo. D. Newell
Weigher
Mr. Chambers

The提到的条款适用于与我们一起工作的人，无论他们的背景如何。他们会在这里和我们一样快乐。

Dr. L.H. Jansen et al.

Rigby, Moore

5A, Great Western

1st Floor, Eastend

The Terrace Cafe

M. Armitage & Co

N. Pope Xx x letterbox
Manganese

I. Feuchtkranzer has a superior article and says when troubled with poor quality send sample to him and he will analyze it.

9/17/84 W. C. Pope and Co
174 High St cor Hamilton
Boston Mass

2 Brels Manganese
21 57" a 64
Cartage 129.42

The Tenney Cape Mining Co

Hobbs XXX selection
Progress to

E.M. Trenchard

Curator of

100 Summer Hill

To
Arsenic As. G. W. Hubbard and Co.

Garland's Arsenic 2.4

Uranium 100" lots 5.40 to 6.00
The text is difficult to decipher due to the handwriting. It appears to be a page from a notebook with writing in English. However, the content is not legible enough to provide a coherent transcription.
Borax

2/11 1884

Thos J. Pope and Bro.
29 2 Pearl St
near Beekman
N.Y. City

2 Brls Borax
663 1/2” w 10
Cartage 50

Same as above
2 Brls Borax
738 1/2” w 8 1/2
Cartage
63 1/2

62.97
63.27
Zaffre

1/26 / 85
Chas Cooper
194 North St N.Y.

1 Keg F.S. Zaffre

112" w 52

58.24
Fillings of Chest and Store are made up of:

4 Brls of Cullett
500" of Ba.

Topping
2 or 3 Brls of cullett
100" Ba.

Brl cullet weighs 350"

Pot Holds 2700"

Barney put some
lunt. bottoms in #19 to see if broken.
<table>
<thead>
<tr>
<th>28</th>
<th>Chest Store</th>
<th>20 oz</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td></td>
<td>12 oz</td>
</tr>
<tr>
<td>10</td>
<td>Chest Store</td>
<td>32 oz</td>
</tr>
<tr>
<td>12</td>
<td></td>
<td>18 oz</td>
</tr>
<tr>
<td>7</td>
<td>Batch</td>
<td>12 oz</td>
</tr>
<tr>
<td>12</td>
<td></td>
<td>12 oz</td>
</tr>
<tr>
<td>16</td>
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<td>20 oz</td>
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<tr>
<td>18</td>
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<tr>
<td>20</td>
<td></td>
<td>18 oz</td>
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<tr>
<td>16</td>
<td>Chest</td>
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<tr>
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<tr>
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<td>Kiln</td>
<td>7</td>
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<td>Chest Store</td>
<td>16 oz</td>
</tr>
<tr>
<td>16</td>
<td></td>
<td>16 oz</td>
</tr>
<tr>
<td>14</td>
<td></td>
<td>16 oz</td>
</tr>
<tr>
<td>24</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
21 Ch 16
14 K 6
27 Ch 20
20 " 16
29 St. 10

In coloring conc. metal Ba. takes nearly the same quantity Manganese as plor, frequently the same.

Chest takes about double the quantity usually double.

When pots are set two (2 oz) ounces of coloring less usually answers but the amt can be determined by the memo.

Batch is rather harder to explain than slore or chest.
Metal Memo 10/19 '85

26 CR. 20
21 Ch. 12
29 " 20
30 " 12
28 St. 12
11 Ch. 19
20 " 14
23 " 22
24 St. 11
26 CR Drg. 20
27 Ch. 22
29 St. 11
12 K (2 Bbls good color) 2
11 Ch. 18
13 Bv. 8
20 Ch 13
21 " 13
22 K Ch. 11
24 St. 11
26 CR. 20
30 Ch. 12
23 " 22
27 " 22
28 St. 12
29 "
1/4 {aint Green
18 St. dirty 16
14 " 10
16 " 12
19 K 4
<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mon.</td>
<td>4 pm</td>
</tr>
<tr>
<td>Tue.</td>
<td>5 pm</td>
</tr>
<tr>
<td>Wed.</td>
<td>6 pm</td>
</tr>
<tr>
<td>Thu.</td>
<td>7 pm</td>
</tr>
<tr>
<td>Fri.</td>
<td>8 pm</td>
</tr>
<tr>
<td>Sat.</td>
<td>9 pm</td>
</tr>
<tr>
<td>Sun.</td>
<td>10 pm</td>
</tr>
</tbody>
</table>

Open 2 pm

For: Matl. 2 pm

Furnace
<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sun</td>
<td>12 pm</td>
<td>Store</td>
</tr>
<tr>
<td>Sun</td>
<td>11 am</td>
<td>Irish</td>
</tr>
<tr>
<td>Mon</td>
<td>11 am</td>
<td>Store</td>
</tr>
<tr>
<td>Mon</td>
<td>10 am</td>
<td>Irish</td>
</tr>
<tr>
<td>Mon</td>
<td>9 am</td>
<td>Irish</td>
</tr>
<tr>
<td>Mon</td>
<td>8 am</td>
<td>Irish</td>
</tr>
<tr>
<td>Mon</td>
<td>7 am</td>
<td>Chest sale</td>
</tr>
<tr>
<td>Mon</td>
<td>6 am</td>
<td>Sale</td>
</tr>
<tr>
<td>Sun</td>
<td>5 pm</td>
<td>Irish</td>
</tr>
<tr>
<td>Sun</td>
<td>4 pm</td>
<td>Irish</td>
</tr>
<tr>
<td>Sun</td>
<td>3 pm</td>
<td>Irish</td>
</tr>
<tr>
<td>Sun</td>
<td>2 pm</td>
<td>Irish</td>
</tr>
<tr>
<td>Sun</td>
<td>1 pm</td>
<td>Irish</td>
</tr>
<tr>
<td>Sun</td>
<td>10 am</td>
<td>Irish</td>
</tr>
<tr>
<td>Sun</td>
<td>9 am</td>
<td>Irish</td>
</tr>
<tr>
<td>Sun</td>
<td>8 am</td>
<td>Irish</td>
</tr>
<tr>
<td>Sun</td>
<td>7 am</td>
<td>Irish</td>
</tr>
<tr>
<td>Sun</td>
<td>6 am</td>
<td>Irish</td>
</tr>
<tr>
<td>Sun</td>
<td>5 am</td>
<td>Irish</td>
</tr>
<tr>
<td>Sun</td>
<td>4 am</td>
<td>Irish</td>
</tr>
<tr>
<td>Sun</td>
<td>3 am</td>
<td>Irish</td>
</tr>
<tr>
<td>Sun</td>
<td>2 am</td>
<td>Irish</td>
</tr>
<tr>
<td>Sun</td>
<td>1 am</td>
<td>Irish</td>
</tr>
<tr>
<td>Sun</td>
<td>12 pm</td>
<td>Irish</td>
</tr>
</tbody>
</table>

Middle Furnace

Form of Record and Record of Ports 8/31 8/5
Board
Grillid Pork Tender

Explanatory

[Partial text not legible]

April 15th 1886

[Partial text not legible]

Dinner"
Getting Pots ready

Glazing

Set 2 P.M Saty
Glaze Sun. 6 A.M.

April 17th 1886

$15 Monkey Set Saty Pm
Scrape clean & fill
Sunday 12 noon
top " 6 P.M
Open Mon. 5 A.M.

$27 Large Pot set Saty Pm
Glaze Sunday 9 P.M
fill " 12 "
Kiln Metals

- Full Batch
  - 15.0 " Sand
  - 10.0 " Lead
  - 5.0 " Pearlash
  - 9.0 " Salt petre
  - 1/4 x Manganese
  - 1/2 x Arsenic
  - 1/4 x Barax

Coloring: O. to 800 as new as sold a shelf
1/3 x Barax is better in use

2/3 or 3/4 Batch

  - 250 " Sand
  - 200 " Lead
  - 100 " Pearlash
  - 50 " Salt petre

  - 3.0 " Manganese
  - 3.0 " Arsenic
  - 3.0 " Barax

Other coloring

3/4 x quantity Zn.

3/2 x 82; 8 x 8 oz coloring

1/2 x 82 of Bar of Kilm

1/2 Bar in proportion
April 19 1886
95 Monday
Lavatory 10 noon
Top 6 PM
Open 10 AM
17 Large Pot. 10 AM
Kiln Metal.

--- Full Batch ---
1350" Sand
900" Lead
450" Pearlash
90" Salt petre

12 oz Manganese
12 " Arsenic line
4 1/2 lbs Borax and 7.

Coloring 0 to 8 oz
as pots are cold or hot
5" Borax is better than 4 1/2

--- 2/3 rds Batch ---
900" Sand
600 " Lead
300 " Pearlash
60 " Salt petre

8 oz Manganese
8 " Arsenic
3 1/2 lbs Borax

0 to 5 oz coloring

Small quantity 2.
3/22, 82, 0 to 8 oz coloring
in 2/3 of Ba of Kiln
1/2 Ba in proportion
In coloring kiln metal the following matters are worthy of careful attention and consideration.

The K. cullet should be of one color as nearly as possible and that color should be noted.

If setting grits satisfy the filling usually takes place Friday.

An allowance of from one to two ounces MnO₂ should be taken from quantity otherwise put in when grits are set.

23/8" w. 5/12, 127.49

Ytr. Scheelite 25 Cts.

2/23-36 Bastelie in Vienna

5 Bela Swiss green Sperice.

11/7-20

4/27-20

4/41-20

4/05-20

3/9-20

7/120-10/15 2000 3/57 11/52
Certain undetermined relations of ballistics paralysis. At
unknown dollars. It will
no pleasure to value sent to
who shall have addressed
what shall happen
from the printed
must measure out an
important moment of
keen circumstance. But
was eternally

For all materials in kiln metal see common except Red Lead Eng Salt petre K, No3
1-14 '85
J. B. Hendrickson
Crockon Laboratory
13 Cedar St N.Y.

5 Brels Salt petre granulated blue 2319" 5 1/4 133.34 J. O. B.
10/11 '84
Battelle & Renwick
163 Front St. N.Y.

6 Brels Pure gran'd S. petre 2318" a 5/2 127.49

W. H. Schieffelin and Co.
170 Wm 64 st N.Y.

2/23 '86 Battelle and Renwick

5 Brels Pure gran S'petre
434-20
427-20
441-20
405-20
393-20

2100-100 = 2000 & 5 1/2 110.00
120 1/2 109.75
Crokornkrebba
13 Gebr. 31 4.71

Bettele für den Tempel
16.9.18

A. H. Schuster, M.D., C.G.
10.10.18

Dr. 8.5.42, Reunion of
27.9.18. Date of arrival.

04-44
05-44
05-14
05-20
05-30
Fire Red Lead

Wing and Evans
9 & 11 William St
NYC

6 bags Adams Pot Red Lead
9808" at 8 1/2 833 68
less for cash 10 8 34

8 25 34
5 10
830 44.
Green.

Quantity of Ba. seems to vary that goes into a large pot, with the cullet and coloring.

A 60" Monkey takes generally 30" Ba to unite with the coloring and help melt the cullet.

A large pot takes from 60" to 200" as shown by following formulae.

The yellow burns out with each melt & color turns to blue. See formula 3/29 1880.

In each case, fig up copper in cullet on backs. Table and add from silica and W.
GREEN

Grandmum of the 1st of Dec.

To meet them from Berlin.

Pac. Wrin. 90. 18 to

With love from France.

P.S. For future use.

Po. Lo 100. as written

For your information.

D. W. Harman.

9th Aug. 1881.

To whom it may concern.

In the name of the

Collection of 1880, as

S. T. S. M.
Iron does not soften or harden but is a flux.

Taffsee hardens & requires an equal portion of N.
with a lot of work to do.

We have a lot of work to do.

It's important to stay focused.

Don't forget to plan your tasks.

We need to make a plan.

Can you help me with this?

We can't do it without you.
3/29 1880

Mam. Green

200 Ba
6 Iron
6 Sand
12 Nitric

{ Ba cu to S. N. Balance
Plating 30 2 1 1 1 Lant.

Sem. } More Iron
Pale } Less Copper

Deep More Cu. Less Iron

Cu Iron
Lant. 1/2 to ea 100''
of Ba. and Cullet
Corrd cu 100% for to ea 100''

Sem. 200'' B.E. & corrd cu.
I S N
12'' 10'' 30''
January '83
Bar 6.00
Lant. 30 4 8 1
Bar cul.

June 1883
Bar cu te S N 83 8 Sem. 100" 39" 25" 96" 5"
Ige
8 3/8 Sem. green cul.
Pot
Lant 30 3 1/2 S
Cul same

3/9 '85
Lant 30" 4 1 8 1 to 100
8 3/8 Sem 1 8/16 eu 1 Iron to 100
5 3/8 1 13/8 1 to 100

1/2 Green x Lant same

Yellow Green

100 Ba
1 cu
1 1/4 Iron
8 5/1
1 N.
3/13/85
4 1/8 3 Ring Corrd
2500 Lant buttons
200 Ba
4 1/5 cu
27 Iron
68 Si
9 N.

Above made good Hn.
5 in smooth face y Corrd

3/26/85
3 3/4 A. Eye 1 in. thick
500 " Lant Buttons
4 4/16 cu
5 Fe
10 Si
2 N
30 " Ba

Good

The copper increases
The color comes right
for any exceptions
<table>
<thead>
<tr>
<th>Diameter (in)</th>
<th>Thickness (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>3/8</td>
</tr>
<tr>
<td>3 1/4</td>
<td>3/8 in thick</td>
</tr>
<tr>
<td>3 7/8</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
</tr>
<tr>
<td>4 1/8</td>
<td></td>
</tr>
<tr>
<td>4 3/16</td>
<td></td>
</tr>
<tr>
<td>4 1/4</td>
<td></td>
</tr>
<tr>
<td>4 1/2</td>
<td></td>
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<tr>
<td>5 3/8</td>
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<tr>
<td>6</td>
<td></td>
</tr>
<tr>
<td>6 3/8</td>
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<td>8 3/8</td>
<td></td>
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<tr>
<td>9</td>
<td>9/16</td>
</tr>
<tr>
<td>10</td>
<td>12/16</td>
</tr>
<tr>
<td>12</td>
<td></td>
</tr>
<tr>
<td>14 1/2</td>
<td></td>
</tr>
</tbody>
</table>
Proportion of Iron is One pound to each 100 lbs of Ba, Lantern Bottoms or cullet that is of flint cullet. Copper varies, but 1" of iron goes with each proportion of copper.

The copper varies in the proportion of 1.33 1/3 ounces to ea 1/16 th inches of thickness see table over.

As glass gets thinner the copper increases as color comes right for any purpose.
<table>
<thead>
<tr>
<th>Fraction</th>
<th>Thickness (in)</th>
<th>Copper (oz.)</th>
<th>Iron (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/16</td>
<td>0.327</td>
<td>2.7</td>
<td>1</td>
</tr>
<tr>
<td>6/16</td>
<td>0.338</td>
<td>2.6 + 1</td>
<td></td>
</tr>
<tr>
<td>7/16</td>
<td>0.357</td>
<td>2.469</td>
<td></td>
</tr>
<tr>
<td>8/16</td>
<td>0.375</td>
<td>2.333</td>
<td></td>
</tr>
<tr>
<td>9/16</td>
<td>0.394</td>
<td>2.333</td>
<td></td>
</tr>
<tr>
<td>10/16</td>
<td>0.409</td>
<td>2.333</td>
<td></td>
</tr>
<tr>
<td>11/16</td>
<td>0.419</td>
<td>2.333</td>
<td></td>
</tr>
<tr>
<td>12/16</td>
<td>0.433</td>
<td>2.333</td>
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</tr>
<tr>
<td>13/16</td>
<td>0.446</td>
<td>2.333</td>
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</tr>
<tr>
<td>14/16</td>
<td>0.460</td>
<td>2.333</td>
<td></td>
</tr>
<tr>
<td>15/16</td>
<td>0.472</td>
<td>2.333</td>
<td></td>
</tr>
</tbody>
</table>

Above table shows proportion of copper in ounces for each 100 inches.
A Page from a Diary

A few notes on events from the day.

[Handwritten text]

The entry is unclear and difficult to read.
12/7 '85 3 3/4 Sem. O.S. 5/16 thick

130" Hm cu.
400" L. B.
4 1/2" Iron
6 1/2" Cu
10" Ni
2" N.
30" Ba

600" Monk.

12/8 '85 Large pot
Lantern

60" Ba

4" Cu
1 Te
8 Si
1 N.

10/29 '85 Lantern 600"

30 Ba

4 Cu
1 Te
8 Si
1 N.

{ to 100" }
12/28 '85 33 1/2 S.F. Sem
600" L.B.
30" B.
9 3/4" Cu
6" Fe
10" Si
2" N.

Filled Monday 6 1/2 P.M.
Jopped Tuesday 2 A.M.
Open " 5 1/2 P.M.
Rock. Tumb. 60 color with crocus martis a green.

For all materials in green see common except copper and iron.
Copper

Revere Copper Co
242 South St, N.Y.C.
47 Hilly St.

1 Bbl. Copper scales
10.43
70
9.73

1 Bbl. Copper scales
10.04
71
9.33

1906 @ 12 228.72
Cash
2.00

2/10 1886
230.72

Same as above.
2 Casks Copper scales
17.3" at 12.5
Cash
21.63
2.5
24.18
Iron
F. W. Devoe and Co
Indian Red strictly pure
1 1/2" Kgs
True Blue

Lanterns: Blue or 2 1/4" blue. The 3/4" in 100.

A 1/4" says 1 1/4" in 400. Makes it lighter than plain better.

1 V.M. Blue M. L. sections 1/4" of an inch thick

2 1/4" Spool 4 1/2" 250. 1/8" baton

4 1/2" half

1 1/8" 1/8" metal

2 1/2" which is softer that was too black. I'll add 2 1/4" blue to lighten it.

It came like this all over so I did the 1/100 and think it would be better.

The color was almost deep enough after it was made into the blue again. It should have been an 1/8" scarlet.

OCTO.
True Blue

Lantern Blue
1 1/4" Zaffre 2 to 100"
2 1/5" Copper sides

A H Jr says 1 1/4" Zaffre would make it lighter therefore better

A "W. Blue H. L. sections 3/8 of an inch thick
2 50" Lant Bottoms
4 0" Batch
4 50 x Zaffre
1 8" Cut
4 / 6" Nitre

Read 2 96" which A H Jr that was too dark. He added 2 40" flint to lighten it.

It came O.K., but A H said if 2 1/3 do the Z were in there it would be better.

The color was almost deep enough after 2 ½ meet to make lanterns if blown heavy. It should have been as follows

OVER.
Arm's Light.

250" Sant Battons
40" Ba,
20 oz 'Zaffir
15” cu
4” vitre

Woman 3 H. and M. 33 Row.

Maccart B. 46.

Sant of... 0.25
Cot 0.45
Cot 0.04

t was... 0.50

It was... 0.50

It was... 0.50
For materials see com.
Purple Blue

5 3/8 Sem. 9/16 in. 8 oz Z to 100"
8 3/8 " 1/16 " 1/2 " Z to 100"

3-10, 1885

8 3/8 S. F. Purple

Lantern lot's 500" same cul. (must not be used.

30" Raw
'1/2 " X
1'2 " Nl.
1'2 " Nl soda, nitre, must be used.
1" Nl soda is good instead 1/2

For materials see com.
Amber
1/16.5 Bulbs & Amber are made from same amber

June 1883
Deep Amber Bulbs
Ba 3/4" Iron 1/2" 3" Maug. Si Nlt.
20" 1/4" 1" 3" cullet same

Mar 9th 1885
Lantern Amber
5" Iron 1 1/2 to 100" Ba
1" Illu 3
6" Si to harden as the iron fluxes

Balls for shooting
Ba N. Iron
20" 5" 3"
Iron fluxes.

Rock, tumb. Go color with oats

For materials see same.
White

Plating Wh. single fil.
30" Si
20" Pb
18" Saltpetre KNO₃
8" Arsenie
8" Bone
100" Pl. Wh. cul.

10 Hours to melt

Add 1/4 for fuel monkey

1/2 cul. pl. wh. cul.

Halve all.

Porcelain White
50" Si
20" Pb
20" Pearl ash
16" Cornwall stone
16" Kryolite
1" Saltpetre
1/8" Borax
1/4" china clay

Ball porcelain White
cullet 5 1/2

10 Hours
10/26 85  Monday
*15 had gold ruby in it
Worked out at noon and
filled in at 2 P.M., as
Kendall wire for their
Wednesday.

60" sand
40" lead
39" Saltpetre
10 1/2" Arsenic
10 1/2" Bone
200" Deep Wh. cub.

Filled Monday 2 P.M.
Topped 6
Opened Tuesday 4 P.M.
<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
<th>Size (in)</th>
<th>Width</th>
<th>Height</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/29 1880</td>
<td>Single file plating</td>
<td>30 20 18</td>
<td>7</td>
<td>7 100</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/30 1880</td>
<td>Pb, Parch as Bone DW</td>
<td>30 20 19 6 6</td>
<td>100</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4/1 1880</td>
<td>Pb, Spatex as Bone DW</td>
<td>30&quot; 20&quot; 18&quot; 7 7  100</td>
<td></td>
<td></td>
<td></td>
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<tr>
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<td></td>
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</tr>
<tr>
<td>4/2 1880</td>
<td>Pb, Spatex as Bone DW</td>
<td>30&quot; 20&quot; 19&quot; 6 6  100</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4/3 1880</td>
<td>Pb, Spatex as Bone DW</td>
<td>30&quot; 20&quot; 19&quot; 6 6  100</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>1/27 1883</td>
<td>Single file, then WH</td>
<td>30&quot; 20&quot; 19&quot; 6  100</td>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/19 1885</td>
<td>Pb, WH for this</td>
<td>60&quot; 40&quot; 39&quot; 10½ 10½ 200&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
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<tr>
<td>Date</td>
<td>Item Description</td>
<td>Details</td>
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<td></td>
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<td>--------</td>
<td>------------------</td>
<td>---------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/9/85</td>
<td>White Bulbs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Spita (As Bone)</td>
<td>60° 110° 39° 5° 5° 200</td>
<td></td>
<td></td>
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<tr>
<td></td>
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<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>
Bone Dust

1. Feuchtwanger & Co.
   191 Fulton St., Church
   NY City

2/23/1886.

2 Bbls Bone Ash
317-18
377-19 = 696

37
657 x 8
52.72
Cartage

50

53.22
Purple

Spittoons &c.

1 1/4" Manganese to ea 100" Bar

not count out. if cut

good very little Bar
Black.

2 1/4" Money
1 40" Black cul.
1 40" Bw
1 40" lant Blue
1 40" Green
3 " Native
8 " Manganese
8 " Iron

Wash all 5 & 10 hours
If not OK for 1/8 in is
right for 1/4 in
Dear Sir,

202 forms received
200 forms sent

Please write to me

Yours,

D. 12 07

Agnes Brough

Post Office

Derry, Northern Ireland

I found a copy of the

Yours,

D. 26 07

18 Malvern Place

Yours,

D. 28 07

Footnotes added on this page.
Apper Frere
Rue de Notre-Dame de Nazareth
Paris
Cristaler
fancy colors in lumps.

Dederick & Co.
18 Maiden Lane

1/31 '85
200 Dwt. fine gold $108 216,000
Gold Ruby

200 Grms   Sand
223 "      Lead
99 "       Salt peter
6.18 "     Wh. Antimony
6.18 "     Manganese
50 "       Borax
13.67 "    Aqua Regia
1.555 "    Gold

1 Dwt = 1.555 Gramme of gold
Apr 10th 1880

--- Gold Ruby ---

32" Sand
36" Lead
16" Salt petre
1" White or Black Antimon
1" Manganese
8" Borax

3 parts HCl + 1 part HNO₃
8 " wt acid to 1 " wt gold

Boil on sand bath in dish to dissolve using flask
Pour decoction on salt petre

Brigade

If you have cullet take 1 part Ba & mix with cullet

Melt plainly & anneal
Aug 31st 1885
July 6th
Gold Ruby digrave 7.8.10 am.
First two times clay after two hours. Last time clay at once. Last time give 1 1/4 lb.

The idea of filling and delaying the claying up is to allow escape of steam & free acids.
After growing on the solution, the flask is filled twice with water and emptied on to the Ba to properly saturate it.
April 6th 1885
Gold Ruby

3 1/2" Sand
3 1/2" lead
1 1/2" Salt petrole
1 1/16" B. & H. Antimony
1 2/3" Mangance
8" Borax

3. HCl + 1 HNO3
About 3/14ths to 1 Qt. Aqua Regia
8 acid WT to 1 gold
2 Ounces gold

First one half
Fill at 1 30 P.M.

Clay up 3 30
Dip out 8
Second one half

File at 9 pm
Clay up at 11 pm.
Dip out at 5 AM.

After dredging
File 5 1/2 (AM) morning AM
Clay up at once

Open 3 PM

One half dredged first then other half.

Gold must be 24 carat.
Worked the weights:

<table>
<thead>
<tr>
<th>Material</th>
<th>Weight</th>
<th>Ounces</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sand</td>
<td>32&quot; x 16</td>
<td>512 oz</td>
</tr>
<tr>
<td>Lead</td>
<td>36&quot; x 16</td>
<td>576 oz</td>
</tr>
<tr>
<td>Saltpetre</td>
<td>16&quot; x 16</td>
<td>256 oz</td>
</tr>
<tr>
<td>Antimony</td>
<td>1&quot; x 16</td>
<td>16 oz</td>
</tr>
<tr>
<td>Wt. or Blyth</td>
<td>1&quot;</td>
<td>16 oz</td>
</tr>
<tr>
<td>Manganese</td>
<td>1&quot; x 16</td>
<td>128 oz</td>
</tr>
<tr>
<td>Borax</td>
<td>8&quot; x 16</td>
<td>128 oz</td>
</tr>
</tbody>
</table>

Take same number grammes as ounces.

1 dram = 1.555 grammes

1000 grammes = 21 Troy lbs
175 Troy oz = 19.2 Ann. oz
So 12 Troy oz = 13.67 acre or aqua regia.

Geo Duncan paid: 1.25 per lb.
over into Metric System

<table>
<thead>
<tr>
<th>Substance</th>
<th>Grammes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sand</td>
<td>513</td>
</tr>
<tr>
<td>Lead</td>
<td>576</td>
</tr>
<tr>
<td>Sulfuric Acid</td>
<td>255</td>
</tr>
<tr>
<td>Ant. Mercur.</td>
<td>15.9</td>
</tr>
<tr>
<td>Manganese</td>
<td>15.9</td>
</tr>
<tr>
<td>Borax</td>
<td>12.9</td>
</tr>
<tr>
<td>Ag. Regina</td>
<td>3.2</td>
</tr>
<tr>
<td>Gold</td>
<td>4.0</td>
</tr>
</tbody>
</table>

\[ \text{Total: } 1540.8 \]

Now I must base all upon gold which is divided into DWT. So as 1 DWT = 1.555 g.
I make proportions on that basis.

<table>
<thead>
<tr>
<th>Substance</th>
<th>Grammes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sand</td>
<td>1540.8</td>
</tr>
<tr>
<td>Lead</td>
<td>576</td>
</tr>
<tr>
<td>Sulfuric Acid</td>
<td>255</td>
</tr>
<tr>
<td>Ant. Mercur.</td>
<td>15.9</td>
</tr>
<tr>
<td>Manganese</td>
<td>15.9</td>
</tr>
<tr>
<td>Borax</td>
<td>12.9</td>
</tr>
<tr>
<td>Ag. Regina</td>
<td>3.2</td>
</tr>
<tr>
<td>Gold</td>
<td>4.0</td>
</tr>
</tbody>
</table>

or even numbers

<table>
<thead>
<tr>
<th>Substance</th>
<th>Numbers</th>
</tr>
</thead>
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<tr>
<td>Sand</td>
<td>200</td>
</tr>
<tr>
<td>Lead</td>
<td>223</td>
</tr>
<tr>
<td>Sulfuric Acid</td>
<td>99</td>
</tr>
<tr>
<td>Ant. Mercur.</td>
<td>6.18</td>
</tr>
<tr>
<td>Manganese</td>
<td>6.18</td>
</tr>
<tr>
<td>Borax</td>
<td>50.0</td>
</tr>
<tr>
<td>Ag. Regina</td>
<td>13.67</td>
</tr>
<tr>
<td>Gold</td>
<td>1.555</td>
</tr>
</tbody>
</table>
Stannous Chloride is used to make Purple Cassius used for coloring Bohemian Ruby.

Try 2% by 40% to 75% in some cases.
Copper Ruby.

1st. Melt Black is drigaded
2nd. " Good for lantyns
3rd. " " Tenses but scatters for lanterns
4th. drigaded for flint

Lease Hole Monkey
Scrape and fine 10 1/2 pm
Top
Open

Then dip out and you have 2 melsk
<table>
<thead>
<tr>
<th>Material</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sand</td>
<td>710 Grammes</td>
</tr>
<tr>
<td>Lead</td>
<td>140 &quot;</td>
</tr>
<tr>
<td>Pearlash</td>
<td>70</td>
</tr>
<tr>
<td>Saltpetre</td>
<td>10</td>
</tr>
<tr>
<td>Cu. 2O</td>
<td>15</td>
</tr>
<tr>
<td>Indian Rod</td>
<td>15</td>
</tr>
<tr>
<td>Put To</td>
<td>37.5</td>
</tr>
<tr>
<td>Bone</td>
<td>10.5</td>
</tr>
<tr>
<td>Coal - Coke</td>
<td>2.0</td>
</tr>
<tr>
<td>Chalk</td>
<td>8.3</td>
</tr>
</tbody>
</table>

300" Monkey

6 Hrs to melt Single Filling

April 8 to 1886

Scrape and File #20½

Thursday 12 P.M.

Open Friday 6 A.M.
Ices don't want $\text{KNO}_3$ for it prevents reduction.

$\text{KNO}_3$ must be used in order to stir up other materials.
W. N. Schieffelin 4/20
170 William St
NY City
4 Boxes putty powder
ea 25" = 100" @ 35 = 35.00

W. S. Ex.

Apr. 8th 1855

Joseph "Jim" 30½

Thursday 15 11 am

Open Friday 6 4 am
Uranium

3/14 '85 New Orleans

100" Req Bar
1" Ox. Uranium
10x Corp. scales

Bal. Canary Green culs.
selected.
3/16/85

The uranium came only slightly changed from the bright yellow. Dipped it out and mixed as follows:

2.73% banana level
2.7% Ba

2.54 oz copper scales or 3/4 oz for a 100 oz Ba. Without extra uranium to thin color it made it bluer.

It made no perceptible change but by uplating with 4/18 copper green it came ok, matching color exactly. So fig on mixing as on greens.
Gold Stone
POTTERY GAZETTE

THE ORGAN OF THE

CHINA & GLASS TRADES

CIRCULATING ESPECIALLY AMONG THE

HOME TRADE, SHIPPERS, AND FOREIGN IMPORTERS.

Subscription 7½ per year. Post free, including Dispers, worth 3½.

REMITTANCES MADE PAYABLE TO DONALD SCOTT,

19, 21, & 23, LUDGATE HILL,

London, E.C.

29th April 1886.
<table>
<thead>
<tr>
<th>Name</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blahill</td>
<td>250</td>
</tr>
<tr>
<td>Geo Miles</td>
<td>150</td>
</tr>
<tr>
<td>W Miles</td>
<td>115</td>
</tr>
<tr>
<td>D. Callahan</td>
<td>95</td>
</tr>
<tr>
<td>W. Martin</td>
<td>60</td>
</tr>
<tr>
<td>Pat. Quill</td>
<td>40</td>
</tr>
<tr>
<td>Frank Brown</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>440</td>
</tr>
<tr>
<td>J. McGovern</td>
<td>250</td>
</tr>
<tr>
<td>C. Jones</td>
<td>150</td>
</tr>
<tr>
<td>Jas. Cooley</td>
<td>105</td>
</tr>
<tr>
<td>J. W. Millan</td>
<td>90</td>
</tr>
<tr>
<td>Thos. Ray</td>
<td>110</td>
</tr>
<tr>
<td>Thos. Nolan</td>
<td>45</td>
</tr>
<tr>
<td>C. O'Brien</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>695</td>
</tr>
<tr>
<td>Jas. Lean</td>
<td>225</td>
</tr>
<tr>
<td>S.</td>
<td>200</td>
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<tr>
<td>Fed. Sheeline</td>
<td>120</td>
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<tr>
<td>Geo. Black</td>
<td>85</td>
</tr>
<tr>
<td>Con. Nolan</td>
<td>60</td>
</tr>
<tr>
<td>M. Shant</td>
<td>45</td>
</tr>
<tr>
<td>P. O'Brien</td>
<td>25</td>
</tr>
<tr>
<td>Jas. Haley</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>810</td>
</tr>
</tbody>
</table>
Joe Bernard 200
Joe Baxter 125
Thos Griffin 85
Joe Connors 40
Fred Hoyt 35
Jno Smith 25

T. Hollingsworth 225
Sam 100
Fred Jones 150
B. Moran 85
W. Butterworths Jr 40
Austin Cowley 30
Levi Cowley 25 6.5

W. Baxter Jr 150
Alex Baxter 75
Henry McKinney 33.5
Jno. Ray 30
Dan. Soule 25
T. Nutzman 100 4.15
Ed Byrne  1.75
Geo Byrne  1.64
Rich. Flanagan  1.70
W Butterworth  1.75
Jno Maloney  1.70
C Byrne  1.70
Jno Cowley  1.70
Jno Maloney  3.50
Jno Griffin  4.00
Jno Comish  3.50
C. Quinn  14510 49

E. Fitzpatrick  15.0
Jno Reil  100
Geo Dough  100
E. Keating  115
A. Evans  100
W Howard  35
Jno Doyle  30
Harry Jones  25
J McCell  35 700

E. Evans  12.5
W Jones  14.0
A. Humphrey  3.5  30.0
<table>
<thead>
<tr>
<th>Name</th>
<th>Amount</th>
</tr>
</thead>
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<tr>
<td>Pat Grady</td>
<td>100</td>
</tr>
<tr>
<td>E. Maloney</td>
<td>100</td>
</tr>
<tr>
<td>J. Quinn</td>
<td>140</td>
</tr>
<tr>
<td>Clark Newcomb</td>
<td>25</td>
</tr>
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<td>3</td>
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<td>W. Newcomb</td>
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Night

Jno Byrne 1.65
Pat Flynn 1.15
W. Allen 1.45
J. McCarty 4.5
P. Nihill 5.0
Martin Dillon 3.0
J. Cavanaugh 4.5

5.65

Jno Ryan 1.35
Ed. Moran 1.15
Jno Maher 4.5
Jno. Dorman 5.0
Jerry Cavanaugh 3.0
Thos. Hevel 100
A. Long 100

5.75
Mixing Room
Barney McNamara 6 days 10
Gas Leap 10
Tom Moran 10

Pot Room
J. Fitzgerald 1.75
W. McQuinn 1.25
Thos. Reel 1.10
M. Martinian 1.25
Jno. King 1.25
Pat Dineen 1.25
M. Cronan 1.25

P. A. Mitchell 2.50
Jno. O. Niel 10
W. Cahill Ehrs 2.00 week
J. Steele Rosin 1.00
M. Harragh 7 1.00

Mike Doyle 1.15
W. Noonan 83
Machine Shop
R. Hames day 3.65
Geo " 3.25
O'Brien " 1.00
J. Millian " 0.91

Plazers
W. Bantier 14 days 13.00
Pat Leney " 13.00
J. Coyle " 13.00
A. Rutledge " 13.00
J. Cavanaugh " 13.00

Jas O'Hara week 8.00

B. M. Millian 1.50
Jno Callanan week 10.00
P. Rahilly 1.50
S. McConnell 150
H. McAlpin week 800
H. Locher 800
Jno. Maggin 150
Jim McGinnis week 1400
W Scott 800
Jerry Callanan 800

Anna Leonard week 450
Mary Sullivan 450
Clay
Raritan River Clay Co.
Woodbridge N.J.
P.O. Box 180
Perth Amboy, N.J.

2/2/86
18 tons * 1 clay a 4.00 72.00
f.o.b.

2/18
Christy fine clay lost
S.E. cor. 8th St Checkers Sts
St Louis, Mo

65 Bbls Select crude Pot clay
31060
June 1300
29760 a 1460 215.76

Above is a car load
Bbls run from 440" to 500" ea.
Rosin.

7. W. Blossom
140 Water St N.W.
100 bbls Rosin
3875.9" at 1 1/2 d. p. yd. 160.57
Rolling 2.00 mkg 1.00 3.00
Examination both ends 5.00 5.00

168.57

Same as above 2/11/86

103 bbls Rosin
4142.0" at 1 1/2
Rolling 0.2
Mkg 0.1
Ex. bot heads .05

170.12

8.24

178.36
Wm. H. Taylor and Co.
Allentown Pa.
2/19/86
Pipe
35 pcs. 3/8 O.D. x 3/16 Hydraulic
4' 52" R. 14
6328
Blowing Irons.
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