

# AUTHORITY

## EX

# AUTHORITY EX EXAMPLE



Dentaria laciniata Muhlen. ex Willd.

AUTHORITY EX  
EXAMPLE



*Dentaria laciniata* Muhlen. ex Willd.





**HENRY MUHLENBERG**



*Dentaria laciniata* Muhlen. ex Willd.



*Dentaria laciniata* Muhlen. ex Willd.



**KARL WILLDENOW**





**NEW SPECIES OF DENTARIA**

*Henry Muhlenberg*



**HENRY MUHLENBERG**



*Dentaria laciniata* Muhlen. ex Willd.



*Dentaria laciniata* Muhlen. ex Willd.



**KARL WILLDENOW**





**HENRY MUHLENBERG**



**FALSE AUTHORITY**

*Dentaria laciniata* Muhlen. ex Willd.



*Dentaria laciniata* Muhlen. ex Willd.



**KARL WILLDENOW**



**FALSE  
AUTHORITY**



**FALSE  
AUTHORITY**

**DID RECOGNIZE TAXON**

**FALSE  
AUTHORITY**



**FALSE**

**AUTHORITY**

**DID RECOGNIZE TAXON**

**---**

**DID NOT PUBLISH**

**BINOMIAL**

**FALSE**

**AUTHORITY**





**HENRY MUHLENBERG**



**FALSE AUTHORITY**

*Dentaria laciniata* Muhlen. ex Willd.



*Dentaria laciniata* Muhlen. ex Willd.



**KARL WILLDENOW**



**NEW SPECIES OF DENTARIA**

*Henry Muhlenberg*





**HENRY MUHLENBERG**



**FALSE AUTHORITY**

*Dentaria laciniata* Muhlen. ex Willd.



*Dentaria laciniata* Muhlen. ex Willd.



**KARL WILLDENOW**





**HENRY MUHLENBERG**



**FALSE AUTHORITY**

*Dentaria laciniata* Muhlen. ex Willd.



**TRUE AUTHORITY**

*Dentaria laciniata* Muhlen. ex Willd.



**KARL WILLDENOW**

**TRUE  
AUTHORITY**



**TRUE  
AUTHORITY**

**DID PUBLISH BINOMIAL**

**TRUE  
AUTHORITY**



**TRUE  
AUTHORITY**



**DID PUBLISH BINOMIAL**

**---**

**EX = PUBLISHED BINOMIAL**

**TRUE  
AUTHORITY**



**HENRY MUHLENBERG**



**FALSE AUTHORITY**

*Dentaria laciniata* Muhlen. ex Willd.



**TRUE AUTHORITY**

*Dentaria laciniata* Muhlen. ex Willd.



**KARL WILLDENOW**



# WRITING BINOMIALS





*Acer negundo* L.





**BINOMIAL LATINIZED**

 *Acer negundo* L.







**GENERIC NAME CAPITALIZED**

 *Acer negundo* L.

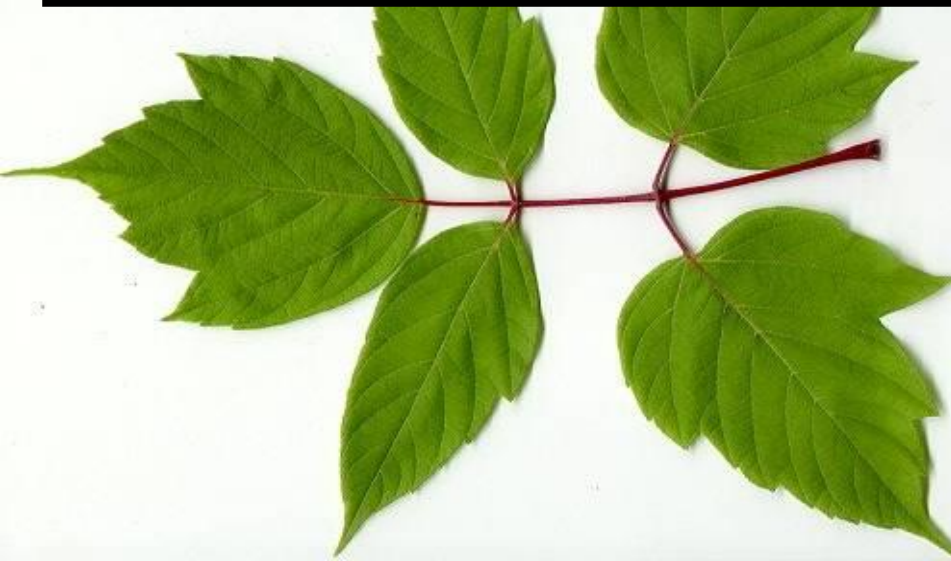






**BINOMIAL**

**Acer negundo L. / *Acer negundo* L.**





!

n

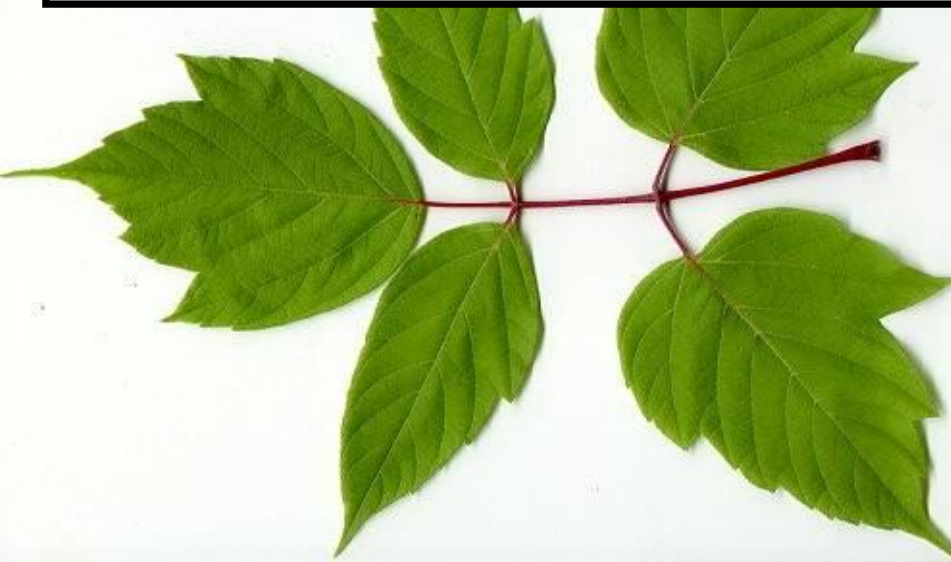
GENERIC NAME

BINOMIAL

AUTHORITY

*Acer negundo* L.

SPECIFIC EPITHET

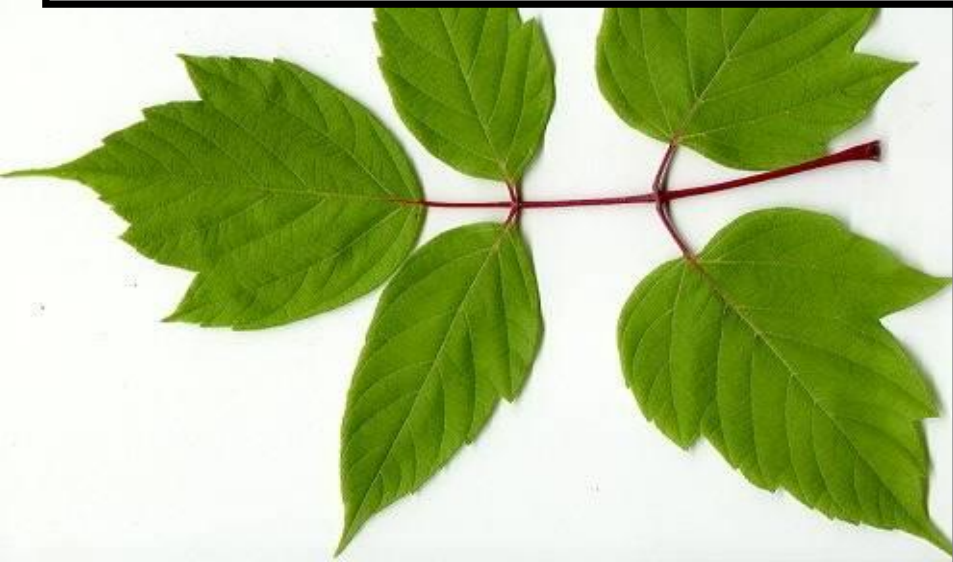






## *Acer negundo* L.

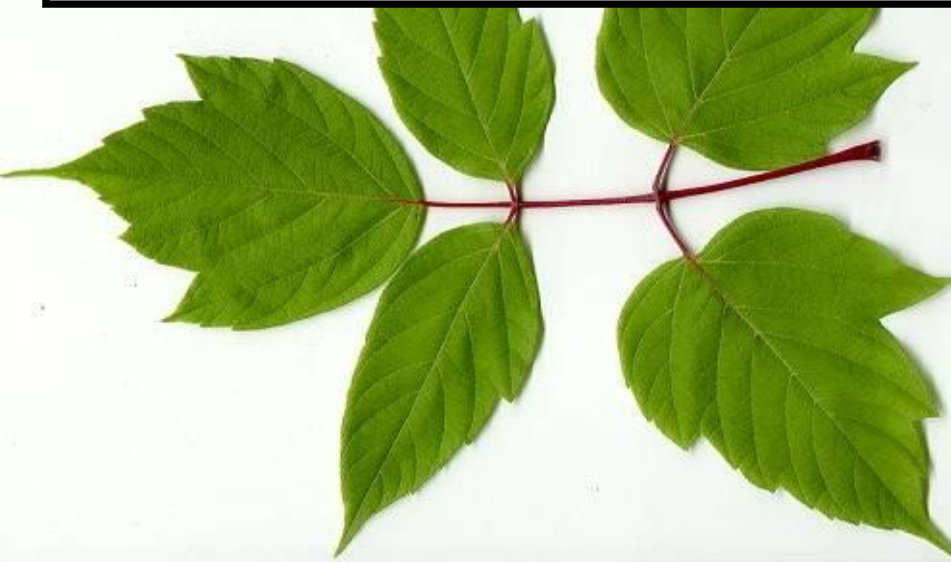
“negundo” **IS NOT THE SPECIES NAME**





*Acer negundo* L.

**BINOMIAL NAME = SCIENTIFIC NAME = SPECIES NAME**



**INTERNATIONAL  
CODE  
OF  
BOTANICAL  
NOMENCLATURE**



**INTERNATIONAL  
CODE  
ICBN OF ICBN  
BOTANICAL  
NOMENCLATURE**

**INTERNATIONAL CODE** E  
**OF BOTANICAL NOMENCLATURE**  
**ICBN**

**TEXT CONTAINING**  
**NOMENCLATURE RULES**

**INTERNATIONAL CODE**  
**OF BOTANICAL NOMENCLATURE**  
**ICBN**

A photograph of the Eiffel Tower in Paris, France, under a clear blue sky with some light clouds. The tower is the central focus, with its intricate iron lattice structure clearly visible. In the foreground, there is a green lawn and some trees. The background shows the Parisian skyline with other buildings.

**ICBN  
ESTABLISHED  
PARIS  
INTERNATIONAL  
BOTANICAL CONGRESS  
1867**



A photograph of the Eiffel Tower in Paris, France, set against a clear blue sky with a few wispy clouds. The tower's intricate iron lattice structure is the central focus. In the foreground, there is a green lawn and some trees. The text is overlaid on the tower.

**BOTANICAL  
CONGRESS  
HELD EVERY  
5 YEARS**



A photograph of the Eiffel Tower in Paris, France, set against a clear blue sky with a few wispy clouds. The tower's intricate iron lattice structure is the central focus. In the foreground, there is a green lawn and some trees. The text is overlaid on the tower.

**BOTANICAL  
CONGRESS  
REVISES ICBN  
RULES**

INTERNATIONAL

CODE

**ICBN**

OF

**ICBN**

INTERNET SERVICE

INTERNET SERVICE

BOTANICAL

NOMENCLATURE



# ICBN RULES



# TYPE CONCEPT RULE



**PLANT NAMES  
DETERMINED BY  
TYPE SPECIMENS**

**TYPE  
SPECIMEN**





**TYPE  
SPECIMEN**

**NOMENCLATURE  
REFERENCE SPECIMEN**

**TYPE  
SPECIMEN**



# **TYPE SPECIMEN**

**DESIGNATED WITHIN  
ORIGINAL DESCRIPTION**

# **TYPE SPECIMEN**

*EMMENANTHE PENDULIFERA*



**TYPE SPECIMEN**

*DERWENTIA DERWENTIANA*



**BLUE RIDGE  
FLORA**

**TYPE SPECIMEN**



*EMMENANTHE PENDULIFERA*



**NOMENCLATURE  
REFERENCE  
SPECIMEN**

**TYPE SPECIMEN**

*DERWENTIA DERWENTIANA*



**NOMENCLATURE  
REFERENCE  
SPECIMEN**

**TYPE SPECIMEN**

*EMMENANTHE PENDULIFERA*



DESIGNATED  
WITHIN  
ORIGINAL  
DESCRIPTION

**TYPE SPECIMEN**

*DERWENTIA DERWENTIANA*

**B**



DESIGNATED  
WITHIN  
ORIGINAL  
DESCRIPTION

**TYPE SPECIMEN**

**BASIONYM**





**BASIONYM**

**SPECIFIC EPITHET**

**BASIONYM**



**BASIONYM**

**SPECIFIC EPITHET**

---

**PERMANENTLY ASSOCIATED**

**WITH A**

**TYPE SPECIMEN**

**BASIONYM**

*EMMENANTHE PENDULIFERA*



**TYPE SPECIMEN**

*DERWENTIA DERWENTIANA*



**TYPE SPECIMEN**



*EMMENANTHE PENDULIFERA*



**BASIONYM  
PERMANENTLY  
ASSOCIATED W/  
TYPE SPECIMEN**

**TYPE SPECIMEN**

*DERWENTIA DERWENTIANA*



**BASIONYM  
PERMANENTLY  
ASSOCIATED W/  
TYPE SPECIMEN**

**TYPE SPECIMEN**

**BASIONYM = *PENDULIFERA***



**BASIONYM  
PERMANENTLY  
ASSOCIATED W/  
TYPE SPECIMEN**

**TYPE SPECIMEN**

**BASIONYM = *DERWENTIANA***



**BASIONYM  
PERMANENTLY  
ASSOCIATED W/  
TYPE SPECIMEN**

**TYPE SPECIMEN**

**BASIONYM = *PENDULIFERA***

**BASIONYM = *DERWENTIANA***



**TYPE SPECIMENS  
NOT MORPHOLOGICALLY  
TYPICAL**



**NOMENCLATURE  
REFERENCE  
SPECIMEN**

**TYPE SPECIMEN**



**NOMENCLATURE  
REFERENCE  
SPECIMEN**

**TYPE SPECIMEN**



**BASIONYM = *PENDULIFERA***

**BASIONYM = *DERWENTIANA***



**TYPE SPECIMENS  
NOMENCLATURE  
IMPORTANCE**



**NOMENCLATURE  
REFERENCE  
SPECIMEN**

**TYPE SPECIMEN**



**NOMENCLATURE  
REFERENCE  
SPECIMEN**

**TYPE SPECIMEN**

**NOMENCLATURE**  
**TYPE SPECIMEN**  
**PRECEDENCE**

**HOLOTYPE**





**TYPE  
SPECIMEN  
HOLOTYPE**

**DESIGNATED BY AUTHORITY**

**TYPE  
SPECIMEN  
HOLOTYPE**



**TYPE  
SPECIMEN  
HOLOTYPE**

**DESIGNATED BY AUTHORITY  
CITED SPECIMEN – ORIGINAL DESCRIPTION**

**TYPE  
SPECIMEN  
HOLOTYPE**

**TYPE  
SPECIMEN  
HOLOTYPE**

**DESIGNATED BY AUTHORITY  
CITED SPECIMEN – ORIGINAL DESCRIPTION  
1<sup>ST</sup> PRECEDENT**

**TYPE  
SPECIMEN  
HOLOTYPE**





**Unaopsis sigma Kellogg sp. nov.**

**A *Unaopsis* beta spicis femineis angustioribus, perigyniis brevioribus et ascendentioribus, perigyniis (1.7-)1.8-2.0 plo longioribus, rostris quam corporibus acheniorum, stipitibus acheniorum, rostris Acheniorum flexis differt; a Unaopsis delta. Perigyniis paucioribus, laxioribus, longioribus, et (1.9-)2.1-2.6(2.8) plo longioribus, quam latioribus differt; a speciebus imbibes pedunculis spicarum terminalium longioribus differt.**

**TYPE: Kellogg 2174**

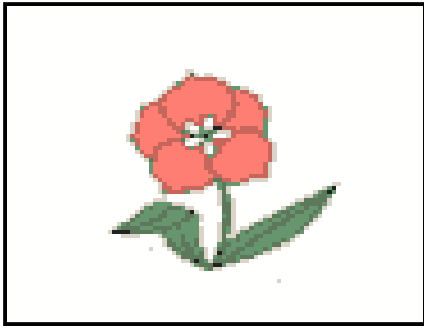
**U.S.A. Mississippi**

**Lowndes County, ~1.8 miles west of Mayhew.**

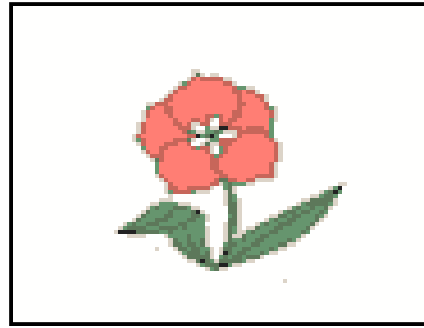
**Holotype: MICH**

**Isotype: NY; US**

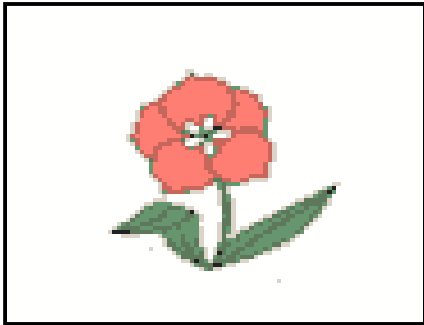
**Paratype: Jones 1768 NY; Smith 2345 MO; Edwards 6785 GH**



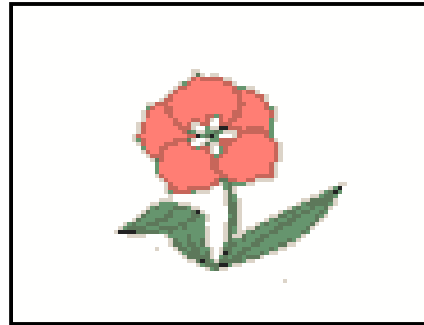
KELLOGG 2174  
MICH



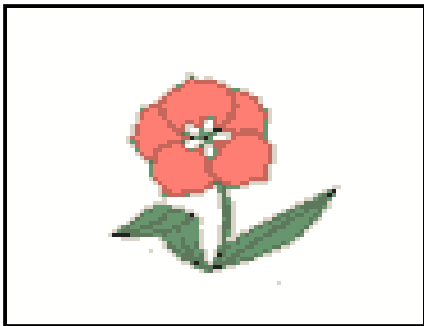
JONES 1768  
NY



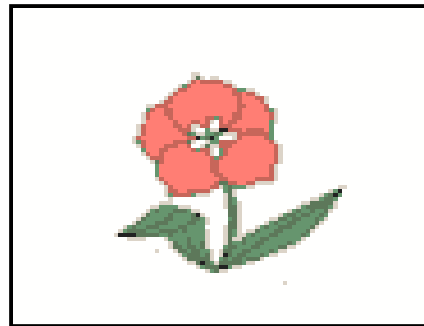
KELLOGG 2174  
NY



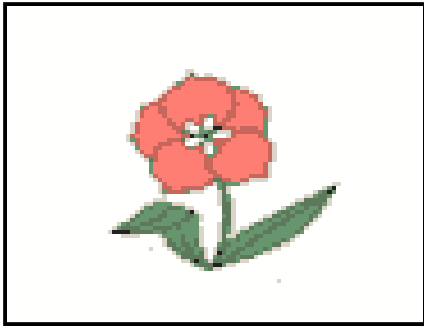
SMITH 2345  
MO



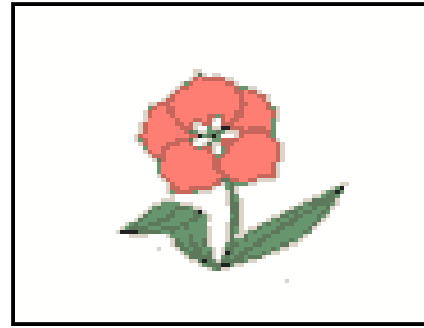
KELLOGG 2174  
US



EDWARDS 6785  
GH



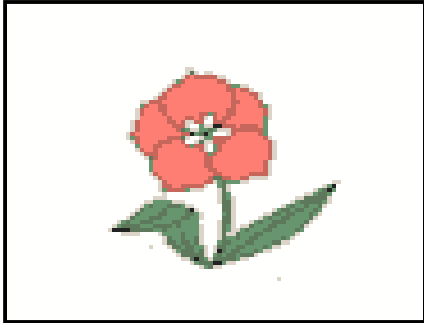
KELLOGG 2174  
MICH  
**HOLOTYPE**  
**1<sup>ST</sup> PRECEDENT**



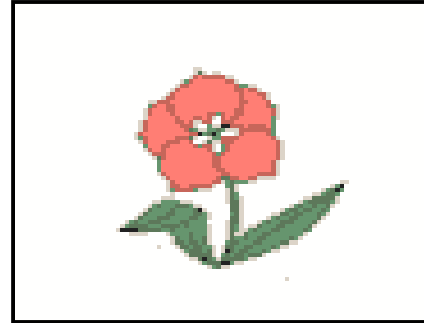
JONES 1768  
NY

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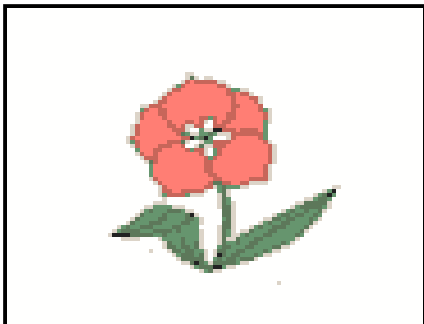
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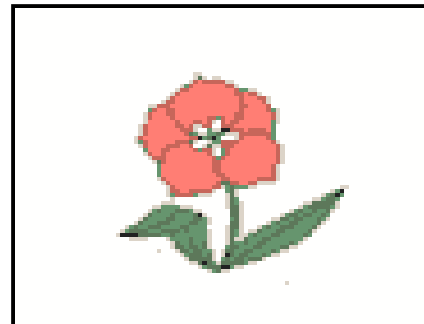
KELLOGG 2174  
NY



SMITH 2345  
MO



KELLOGG 2174  
US



EDWARDS 6785  
GH

**ISOTYPE**





**TYPE  
SPECIMEN  
ISOTYPE**

**DUPLICATE SPECIMEN HOLOTYPE COLLECTION**

**TYPE  
SPECIMEN  
ISOTYPE**



**TYPE  
SPECIMEN  
ISOTYPE**

**DUPLICATE SPECIMEN HOLOTYPE COLLECTION  
CITED SPECIMEN – ORIGINAL DESCRIPTION**

**TYPE  
SPECIMEN  
ISOTYPE**

**TYPE  
SPECIMEN  
ISOTYPE**

**DUPLICATE SPECIMEN HOLOTYPE COLLECTION  
CITED SPECIMEN – ORIGINAL DESCRIPTION  
2<sup>ND</sup> PRECEDENT**

**TYPE  
SPECIMEN  
ISOTYPE**



**Unaopsis sigma Kellogg sp. nov.**

**A *Unaopsis* beta spicis femineis angustioribus, perigyniis brevioribus et ascendentioribus, perigyniis (1.7-)1.8-2.0 plo longioribus, rostris quam corporibus acheniorum, stipitibus acheniorum, rostris Acheniorum flexis differt; a Unaopsis delta. Perigyniis paucioribus, laxioribus, longioribus, et (1.9-)2.1-2.6(2.8) plo longioribus, quam latioribus differt; a speciebus imbibes pedunculis spicarum terminalium longioribus differt.**

**TYPE: Kellogg 2174**

**U.S.A. Mississippi**

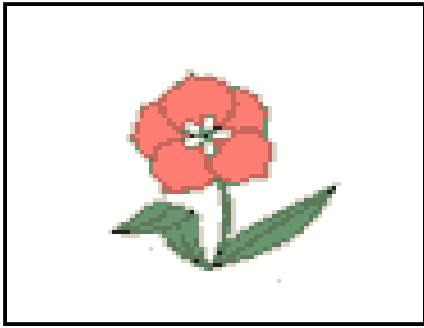
**Lowndes County, ~1.8 miles west of Mayhew.**

**Holotype: MICH**

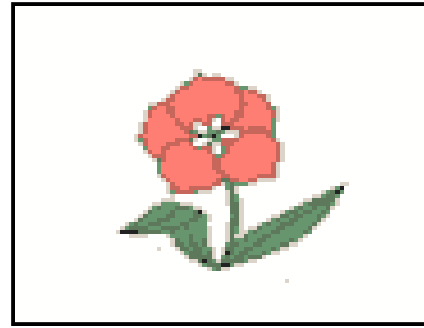
**Isotype: NY; US**

**Paratype: Jones 1768 NY; Smith 2345 MO; Edwards 6785 GH**

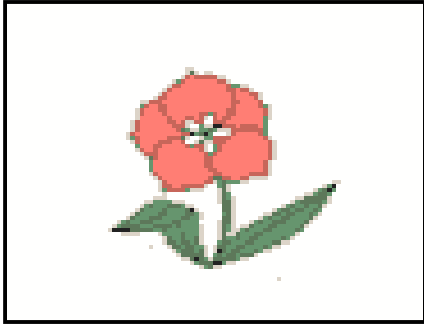




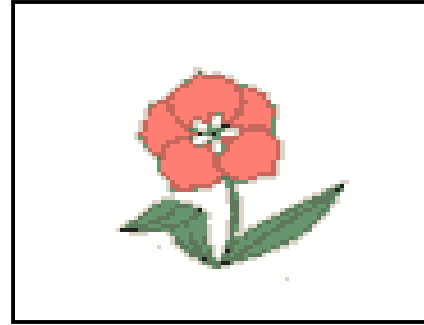
KELLOGG 2174  
MICH  
**HOLOTYPE**  
**1<sup>ST</sup> PRECEDENT**



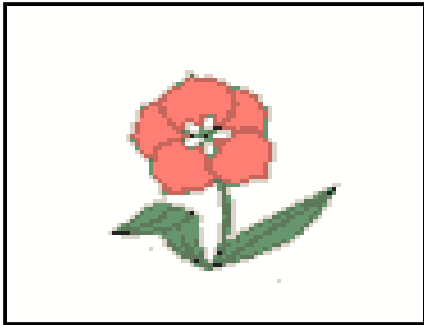
JONES 1768  
NY



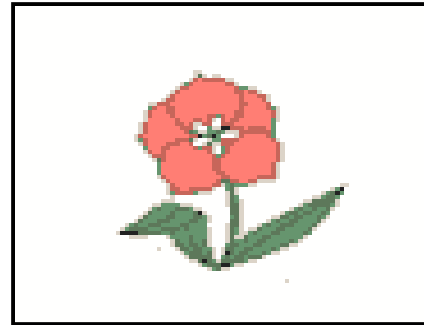
KELLOGG 2174  
NY



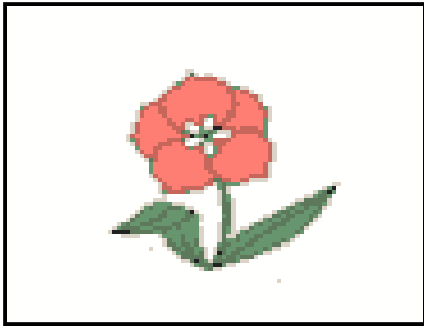
SMITH 2345  
MO



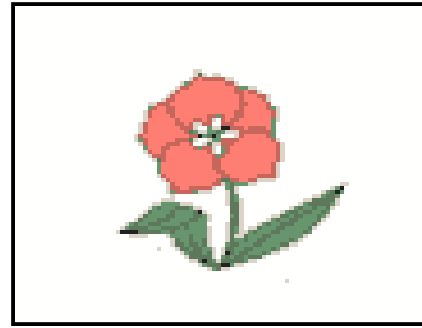
KELLOGG 2174  
US



EDWARDS 6785  
GH

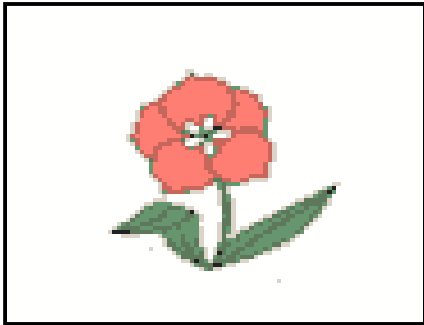


KELLOGG 2174  
MICH  
**HOLOTYPE**  
**1<sup>ST</sup> PRECEDENT**

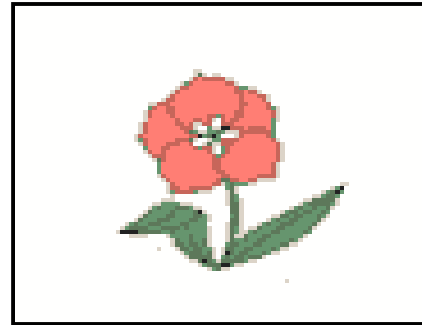


JONES 1768  
NY

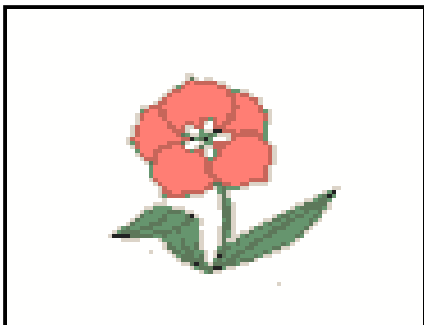
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P



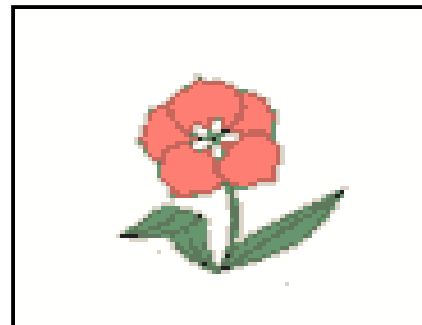
KELLOGG 2174  
NY  
**ISOTYPE**  
**2<sup>ND</sup> PRECEDENT**



SMITH 2345  
MO



KELLOGG 2174  
US  
**ISOTYPE**  
**2<sup>ND</sup> PRECEDENT**



EDWARDS 6785  
GH

**PARATYPE**



**TYPE  
SPECIMEN  
PARATYPE**

**NOT DUPLICATE SPECIMEN HOLOTYPE COLLECTION**

**TYPE  
SPECIMEN  
PARATYPE**





**TYPE  
SPECIMEN  
PARATYPE**

**NOT DUPLICATE SPECIMEN HOLOTYPE COLLECTION  
CITED SPECIMEN – ORIGINAL DESCRIPTION**

**TYPE  
SPECIMEN  
PARATYPE**

**TYPE  
SPECIMEN  
PARATYPE**

**NOT DUPLICATE SPECIMEN HOLOTYPE COLLECTION  
CITED SPECIMEN – ORIGINAL DESCRIPTION  
3<sup>RD</sup> PRECEDENT**

**TYPE  
SPECIMEN  
PARATYPE**



**Unaopsis sigma Kellogg sp. nov.**

**A *Unaopsis* beta spicis femineis angustioribus, perigyniis brevioribus et ascendentioribus, perigyniis (1.7-)1.8-2.0 plo longioribus, rostris quam corporibus acheniorum, stipitibus acheniorum, rostris Acheniorum flexis differt; a Unaopsis delta. Perigyniis paucioribus, laxioribus, longioribus, et (1.9-)2.1-2.6(2.8) plo longioribus, quam latioribus differt; a speciebus imbibes pedunculis spicarum terminalium longioribus differt.**

**TYPE: Kellogg 2174**

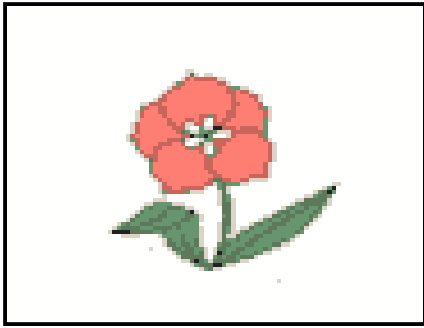
**U.S.A. Mississippi**

**Lowndes County, ~1.8 miles west of Mayhew.**

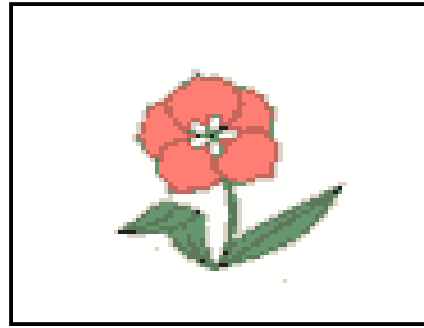
**Holotype: MICH**

**Isotype: NY; US**

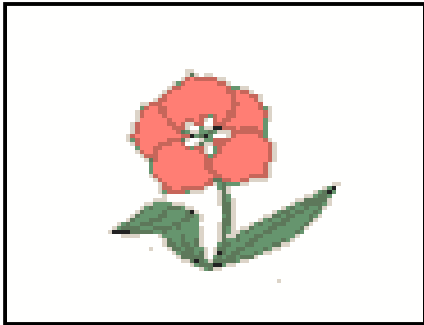
**Paratype: Jones 1768 NY; Smith 2345 MO; Edwards 6785 GH**



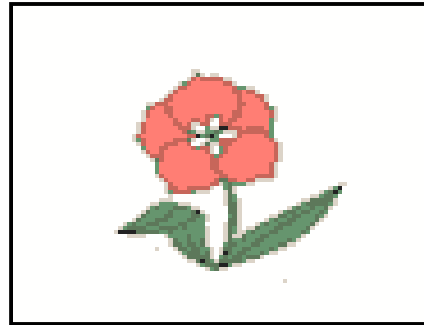
KELLOGG 2174  
MICH  
**HOLOTYPE**  
**1<sup>ST</sup> PRECEDENT**



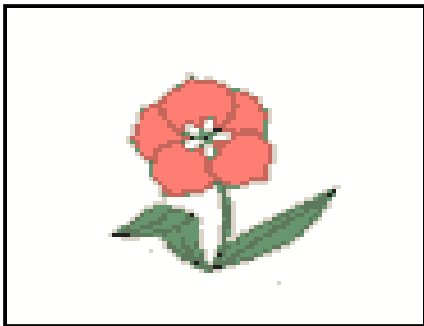
JONES 1768  
NY



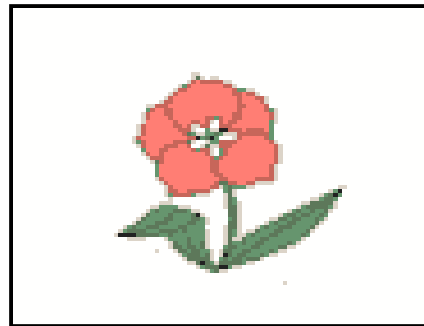
KELLOGG 2174  
NY  
**ISOTYPE**  
**2<sup>ND</sup> PRECEDENT**



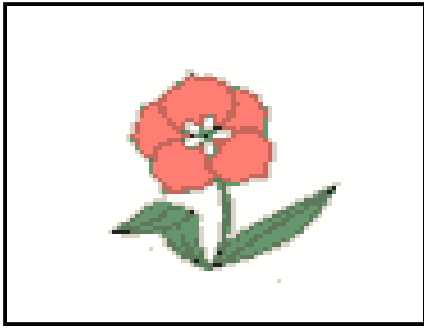
SMITH 2345  
MO



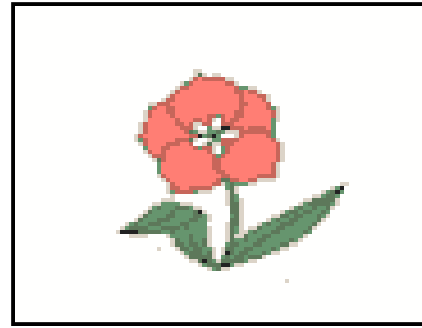
KELLOGG 2174  
US  
**ISOTYPE**  
**2<sup>ND</sup> PRECEDENT**



EDWARDS 6785  
GH



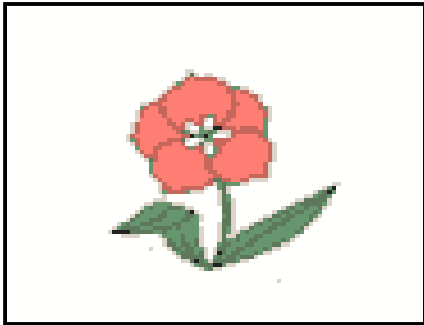
KELLOGG 2174  
MICH  
**HOLOTYPE**  
**1<sup>ST</sup> PRECEDENT**



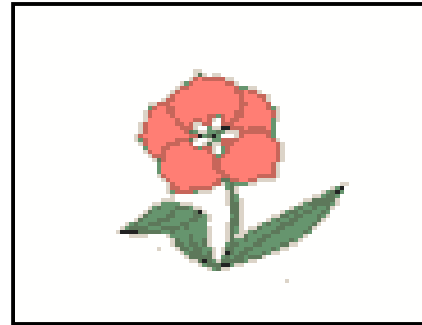
JONES 1768  
NY  
**PARATYPE**  
**3<sup>RD</sup> PRECEDENT**

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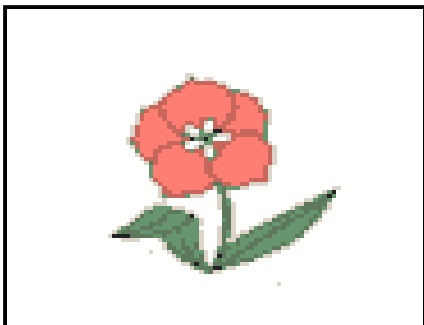
L



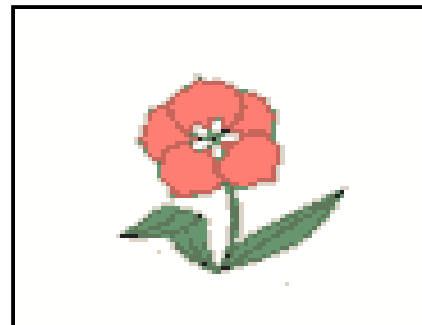
KELLOGG 2174  
NY  
**ISOTYPE**  
**2<sup>ND</sup> PRECEDENT**



SMITH 2345  
MO  
**PARATYPE**  
**3<sup>RD</sup> PRECEDENT**



KELLOGG 2174  
US  
**ISOTYPE**  
**2<sup>ND</sup> PRECEDENT**



EDWARDS 6785  
GH  
**PARATYPE**  
**3<sup>RD</sup> PRECEDENT**



**LECTOTYPE**



**TYPE  
SPECIMEN  
LECTOTYPE**

**SELECTED FROM ISOTYPES OR PARATYPES**

**TYPE  
SPECIMEN  
LECTOTYPE**



**TYPE  
SPECIMEN  
LECTOTYPE**

**SELECTED FROM ISOTYPES OR PARATYPES  
SERVES AS TYPE WHEN HOLOTYPE LOST**

**TYPE  
SPECIMEN  
LECTOTYPE**

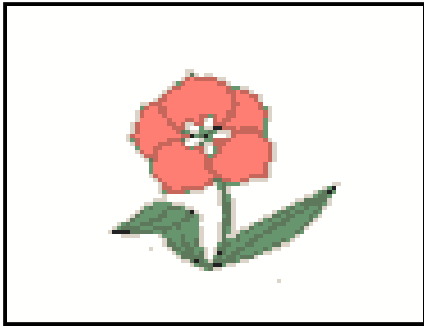
**TYPE  
SPECIMEN  
LECTOTYPE**

**SELECTED FROM ISOTYPES OR PARATYPES  
SERVES AS TYPE WHEN HOLOTYPE LOST  
ISOTYPES PRECEDENT OVER PARATYPES**

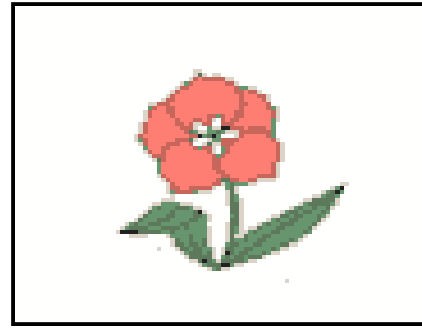
**TYPE  
SPECIMEN  
LECTOTYPE**

# **LECTOTYPE APPLIED**

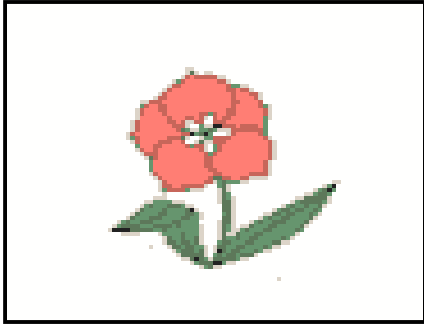




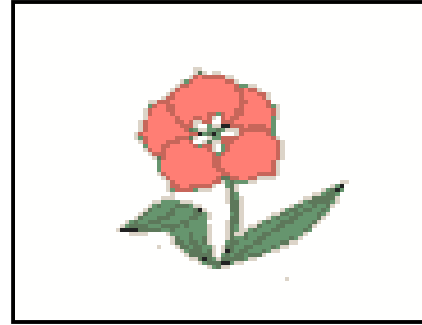
KELLOGG 2174  
MICH  
**HOLOTYPE**  
**1<sup>ST</sup> PRECEDENT**



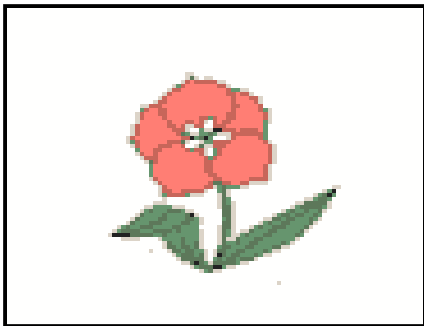
JONES 1768  
NY  
**PARATYPE**  
**3<sup>RD</sup> PRECEDENT**



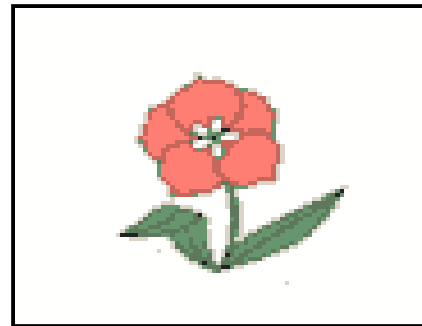
KELLOGG 2174  
NY  
**ISOTYPE**  
**2<sup>ND</sup> PRECEDENT**



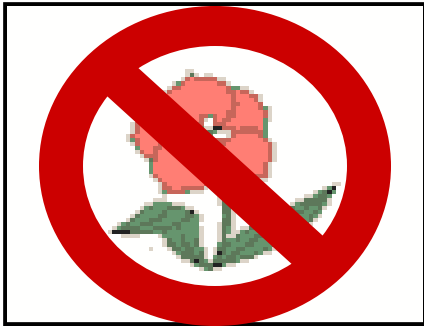
SMITH 2345  
MO  
**PARATYPE**  
**3<sup>RD</sup> PRECEDENT**



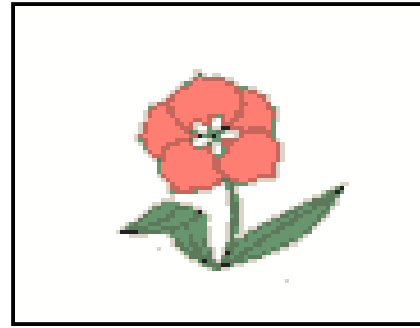
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US  
**ISOTYPE**  
**2<sup>ND</sup> PRECEDENT**



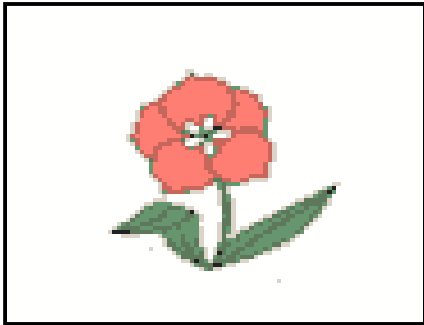
EDWARDS 6785  
GH  
**PARATYPE**  
**3<sup>RD</sup> PRECEDENT**



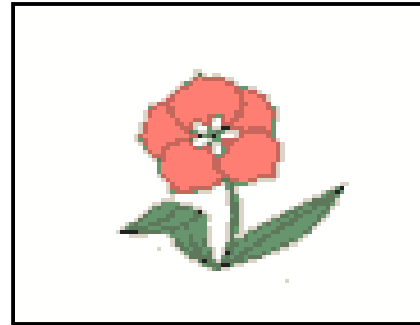
KELLOGG 2174  
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**HOLOTYPE**  
**1<sup>ST</sup> PRECEDENT**



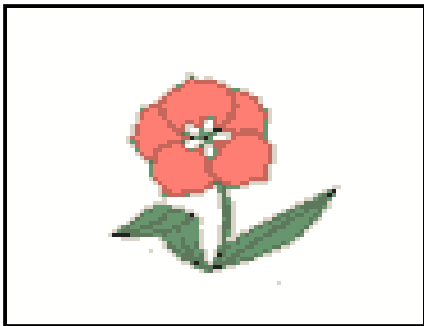
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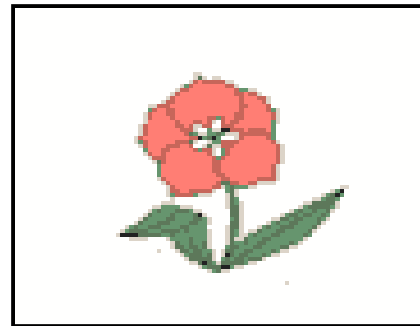
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**ISOTYPE**  
**2<sup>ND</sup> PRECEDENT**



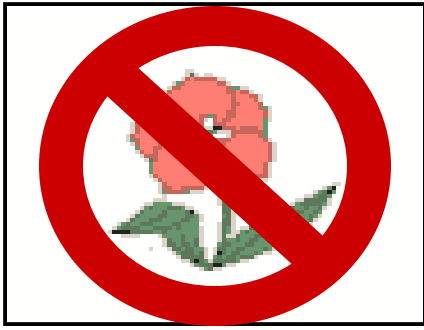
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**PARATYPE**  
**3<sup>RD</sup> PRECEDENT**



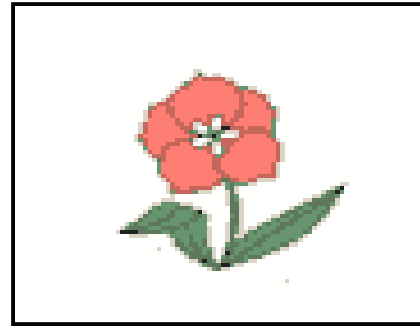
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**2<sup>ND</sup> PRECEDENT**



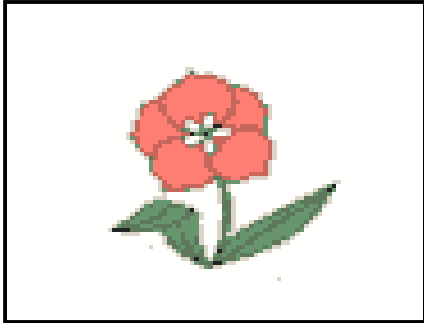
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**3<sup>RD</sup> PRECEDENT**



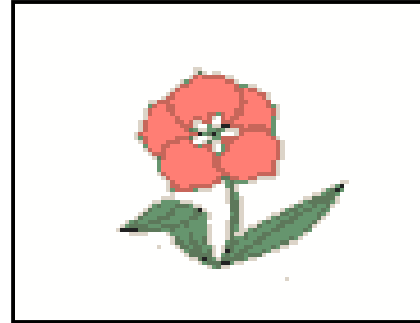
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HOLOTYPE  
1<sup>ST</sup> PRECEDENT



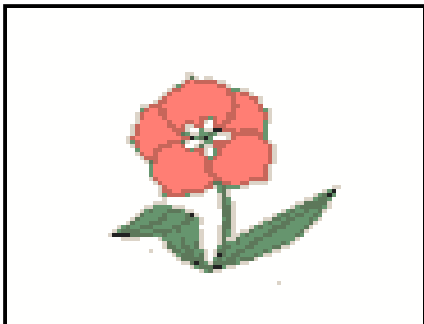
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PARATYPE  
3<sup>RD</sup> PRECEDENT



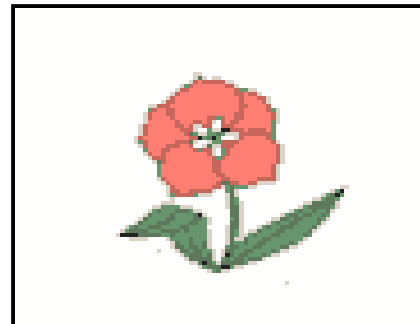
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NY  
LECTOTYPE



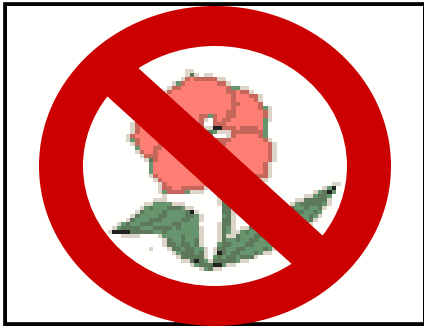
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3<sup>RD</sup> PRECEDENT



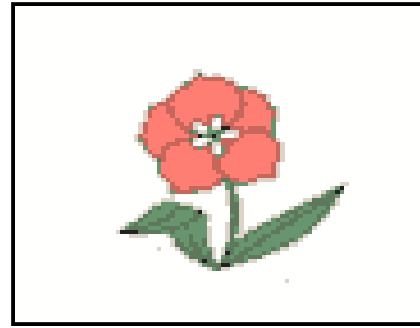
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ISOTYPE  
2<sup>ND</sup> PRECEDENT



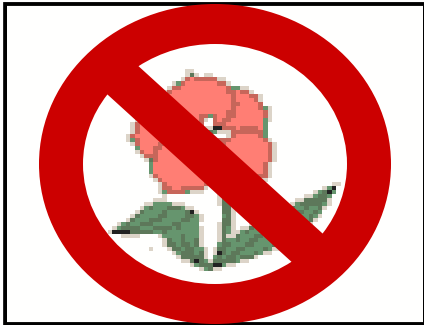
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GH  
PARATYPE  
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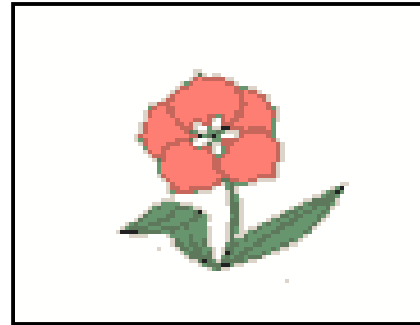
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MICH  
**HOLOTYPE**  
**1<sup>ST</sup> PRECEDENT**



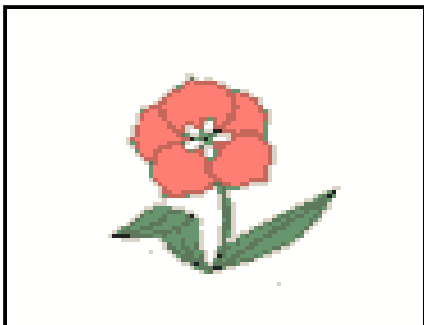
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**PARATYPE**  
**3<sup>RD</sup> PRECEDENT**



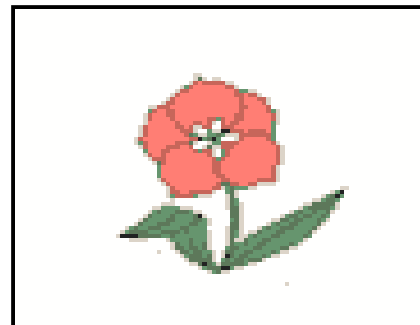
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NY  
**ISOTYPE**  
**2<sup>ND</sup> PRECEDENT**



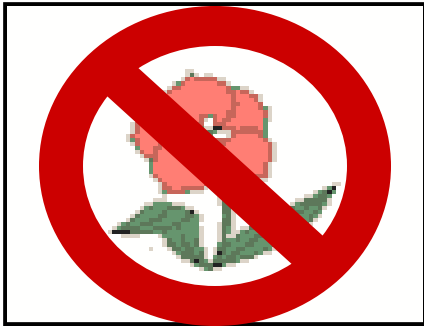
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MO  
**PARATYPE**  
**3<sup>RD</sup> PRECEDENT**



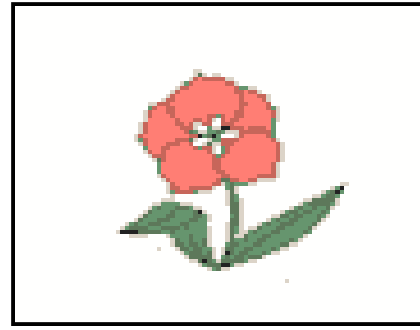
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**2<sup>ND</sup> PRECEDENT**



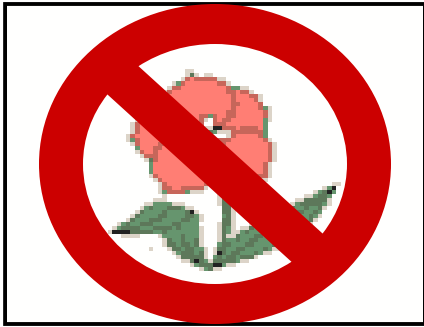
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GH  
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**3<sup>RD</sup> PRECEDENT**



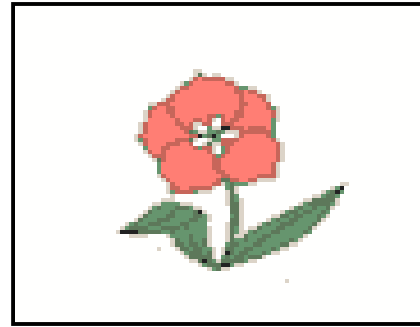
KELLOGG 2174  
MICH  
HOLOTYPE  
1<sup>ST</sup> PRECEDENT



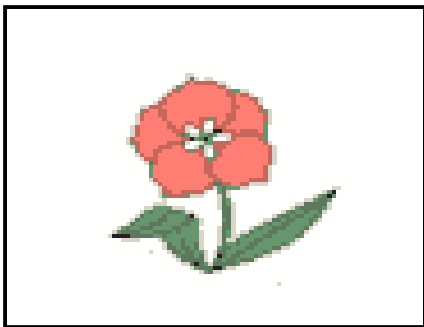
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3<sup>RD</sup> PRECEDENT



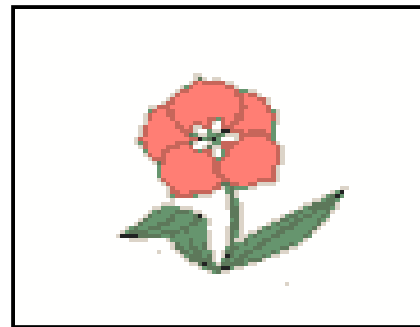
KELLOGG 2174  
NY  
ISOTYPE  
2<sup>ND</sup> PRECEDENT



SMITH 2345  
MO  
PARATYPE  
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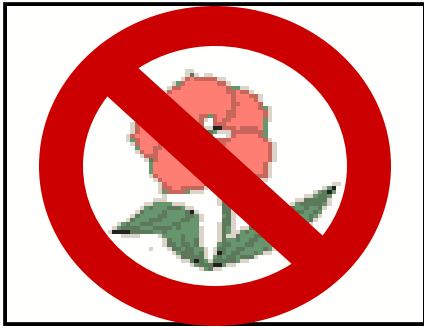


KELLOGG 2174  
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LECTOTYPE

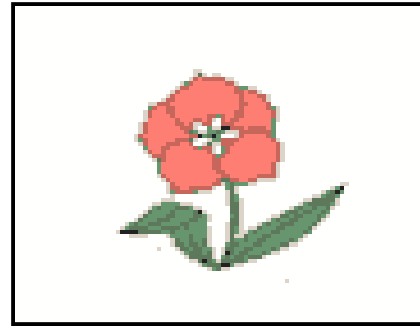


EDWARDS 6785  
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PARATYPE  
3<sup>RD</sup> PRECEDENT

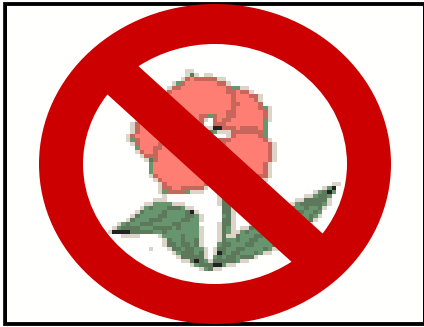




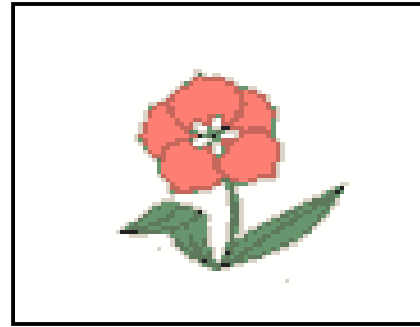
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**1<sup>ST</sup> PRECEDENT**



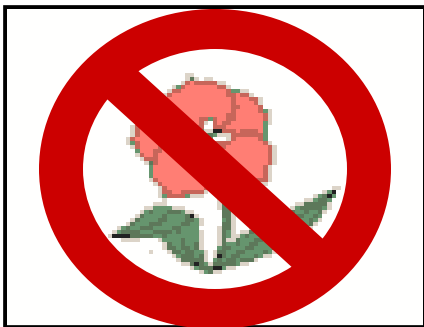
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**3<sup>RD</sup> PRECEDENT**



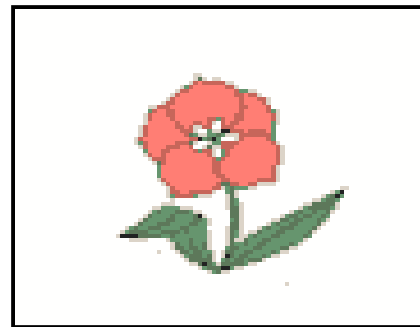
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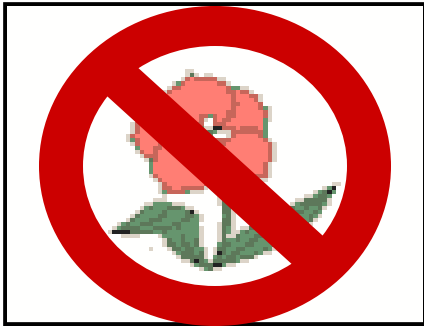
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**3<sup>RD</sup> PRECEDENT**



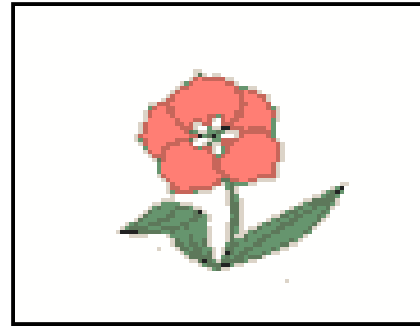
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**2<sup>ND</sup> PRECEDENT**



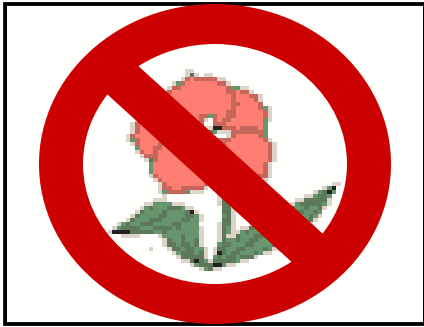
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**3<sup>RD</sup> PRECEDENT**



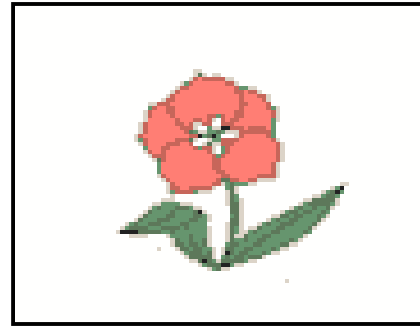
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**1<sup>ST</sup> PRECEDENT**



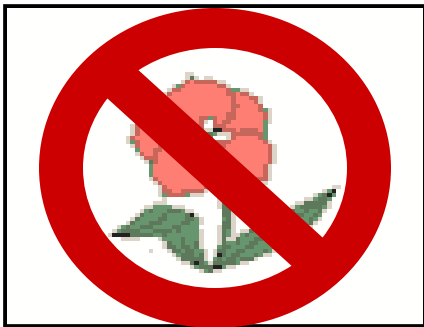
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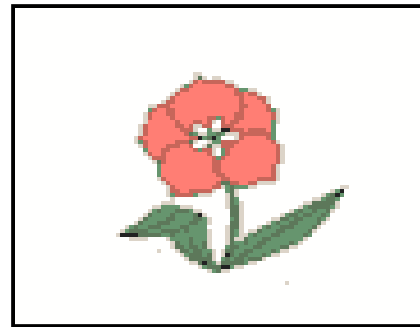
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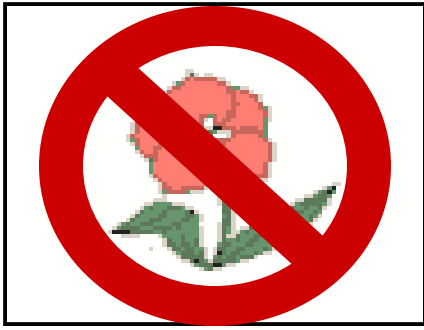
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**3<sup>RD</sup> PRECEDENT**



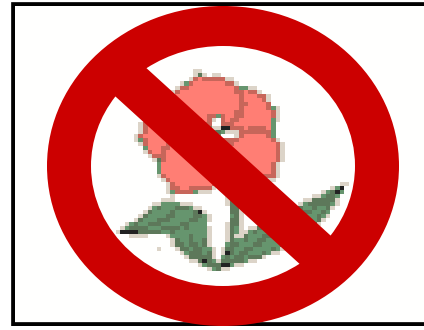
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**2<sup>ND</sup> PRECEDENT**



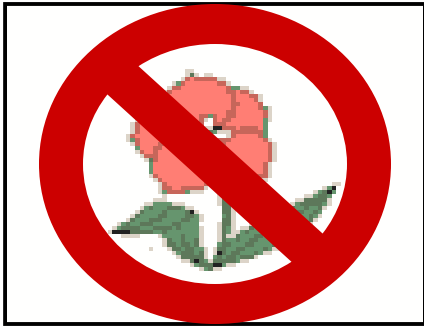
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**3<sup>RD</sup> PRECEDENT**



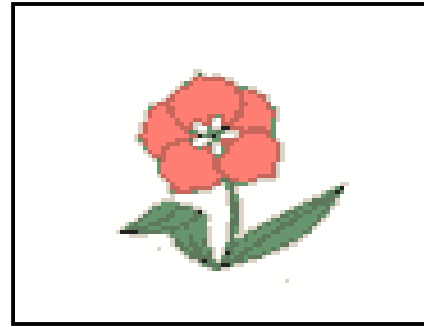
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1<sup>ST</sup> PRECEDENT



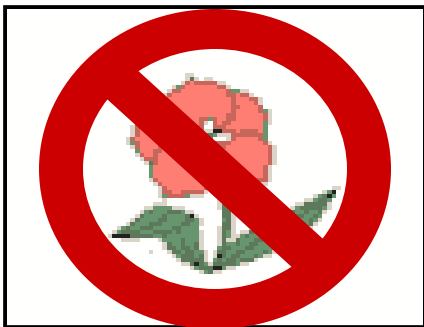
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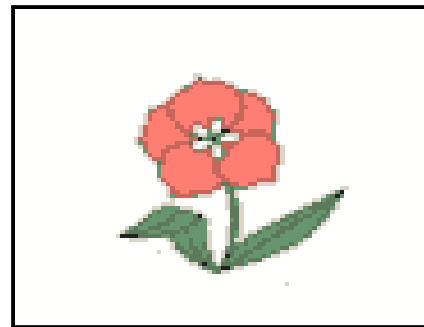
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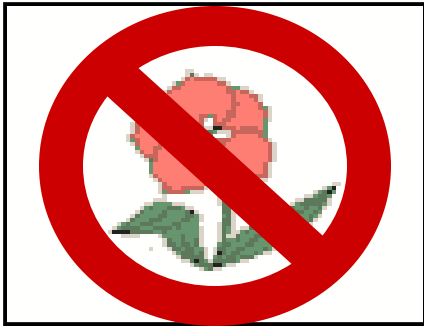
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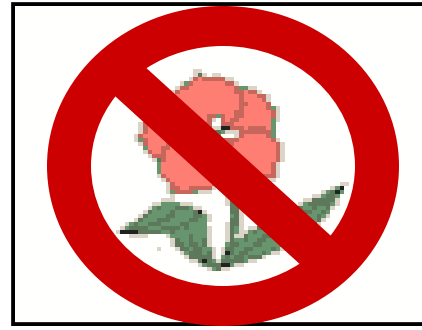
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ISOTYPE  
2<sup>ND</sup> PRECEDENT



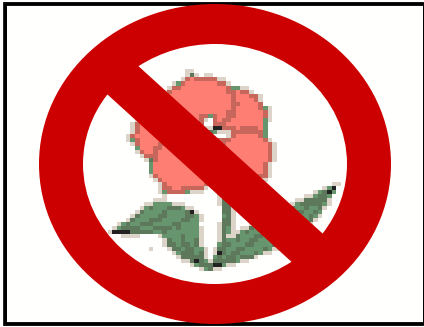
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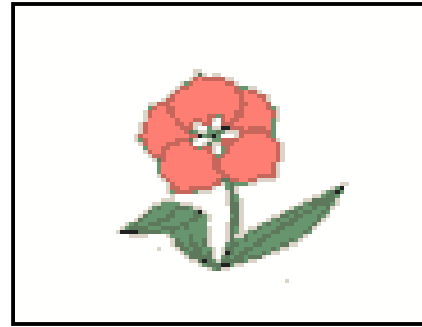
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1<sup>ST</sup> PRECEDENT



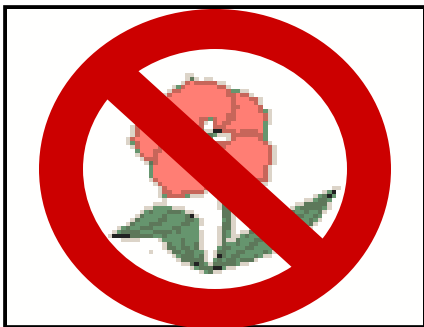
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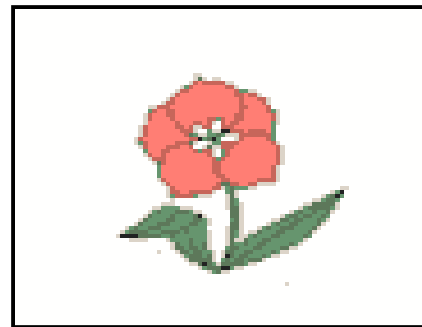
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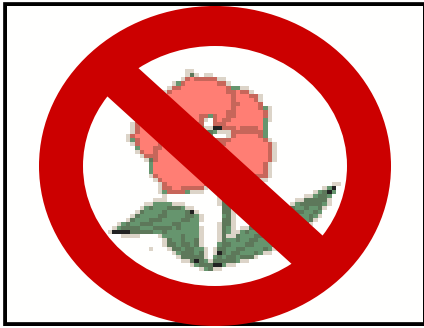
SMITH 2345  
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LECTOTYPE



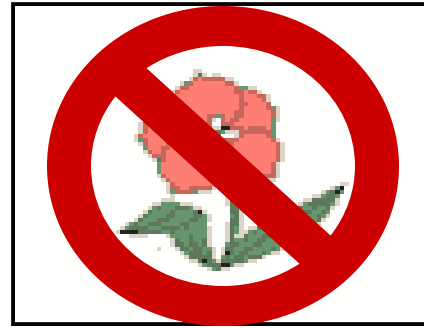
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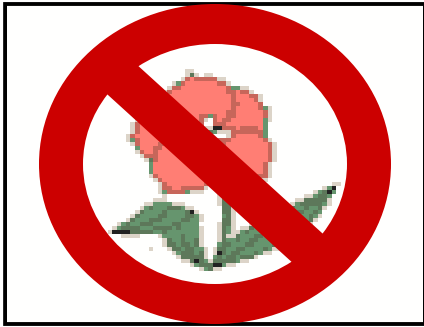
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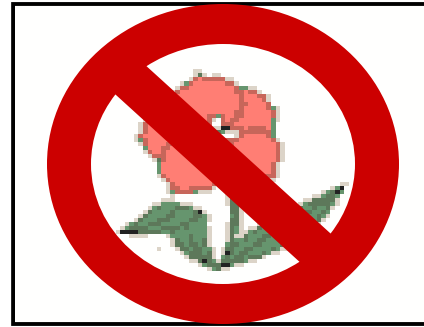
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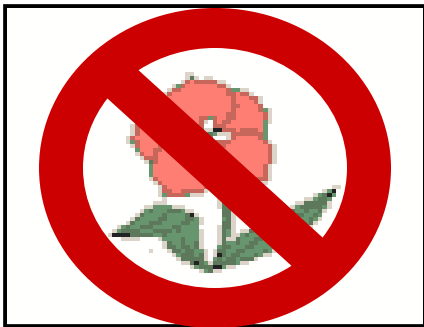
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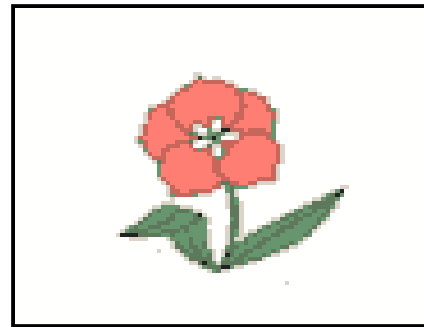
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ISOTYPE  
2<sup>ND</sup> PRECEDENT



SMITH 2345  
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PARATYPE  
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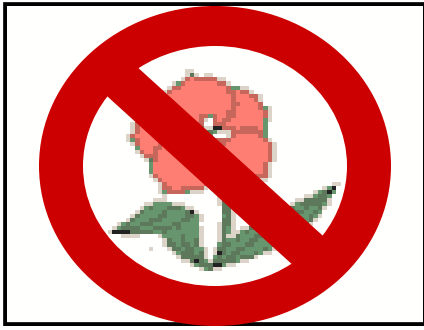


KELLOGG 2174  
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2<sup>ND</sup> PRECEDENT

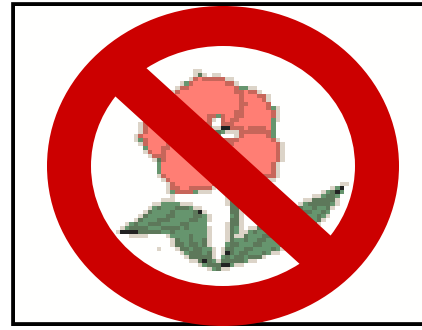


EDWARDS 6785  
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PARATYPE  
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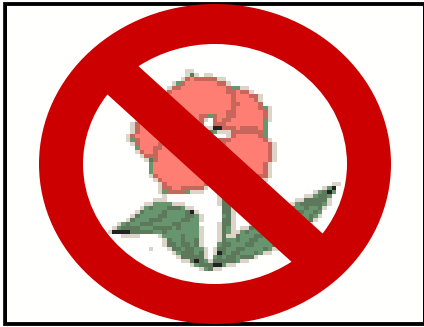




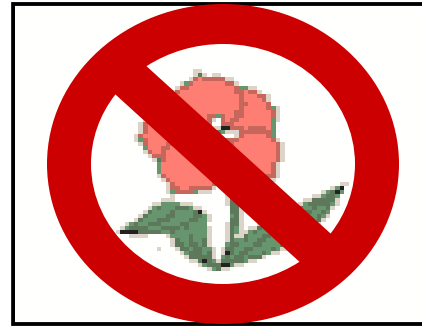
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MICH  
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1<sup>ST</sup> PRECEDENT



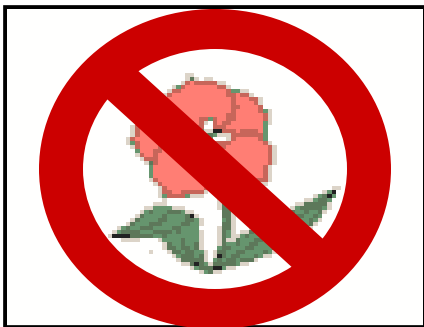
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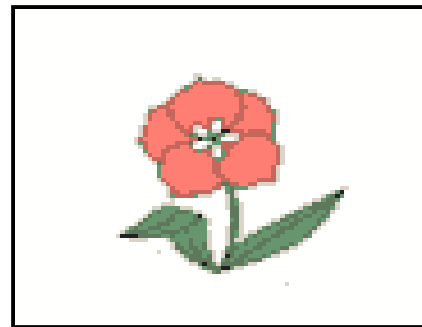
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ISOTYPE  
2<sup>ND</sup> PRECEDENT



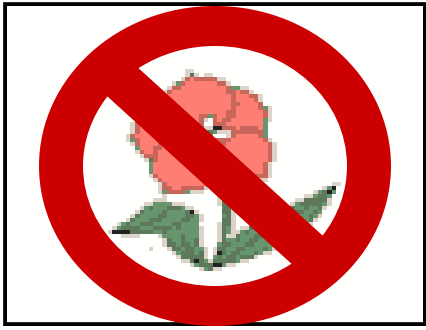
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3<sup>RD</sup> PRECEDENT



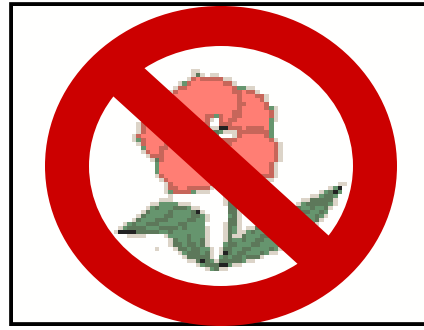
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2<sup>ND</sup> PRECEDENT



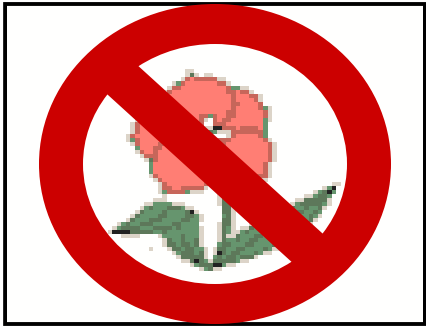
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LECTOTYPE



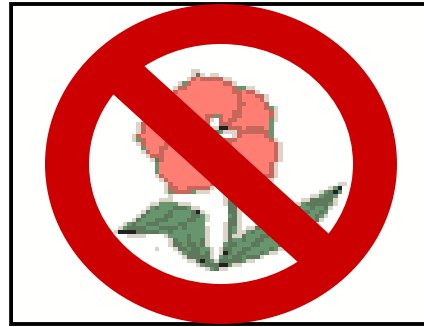
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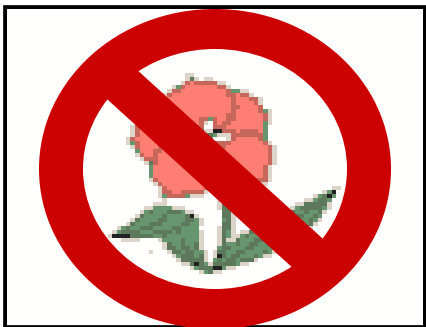
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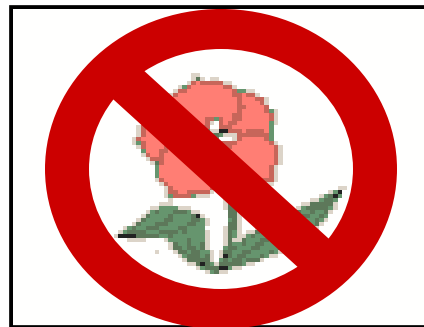
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NY  
ISOTYPE  
2<sup>ND</sup> PRECEDENT



SMITH 2345  
MO  
PARATYPE  
3<sup>RD</sup> PRECEDENT



KELLOGG 2174  
US  
ISOTYPE  
2<sup>ND</sup> PRECEDENT



EDWARDS 6785  
GH  
PARATYPE  
3<sup>RD</sup> PRECEDENT

Unaopsis sigma Kellogg sp. nov.

A *Unaopsis* beta spicis femineis angustioribus, perigyniis brevioribus et ascendentioribus, perigyniis (1.7-)1.8-2.0 plo longioribus, rostris quam corporibus acheniorum, stipitibus acheniorum, rostris Acheniorum flexis differt; a Unaopsis delta. Perigyniis paucioribus, laxioribus, longioribus, et (1.9-)2.1-2.6(2.8) plo longioribus, quam latioribus differt; a speciebus imbibes pedunculis spicarum terminalium longioribus differt.

TYPE: Kellogg 2174

U.S.A. Mississippi

Lowndes County, ~1.8 miles west of Mayhew.

Holotype: MICH

**ALL TYPE SPECIMENS LOST**

Isotype: NY; US

Paratype: Jones 1768 NY; Smith 2345 MO; Edwards 6785 GH

**NEOTYPE**



**TYPE  
SPECIMEN  
NEOTYPE**

**NON-ISOTYPE, NON-PARATYPE SPECIMEN**

**TYPE  
SPECIMEN  
NEOTYPE**



**TYPE  
SPECIMEN  
NEOTYPE**

**NON-ISOTYPE, NON-PARATYPE SPECIMEN  
NON-CITED SPECIMEN – ORIGINAL DESCRIPTION**

**TYPE  
SPECIMEN  
NEOTYPE**





**TYPE  
SPECIMEN  
NEOTYPE**

**NON-ISOTYPE, NON-PARATYPE SPECIMEN  
NON-CITED SPECIMEN – ORIGINAL DESCRIPTION  
SERVES AS TYPE WHEN ALL CITED TYPE SPECIMENS LOST**

**TYPE  
SPECIMEN  
NEOTYPE**

# TYPE SPECIMEN NEOTYPE

NON-ISOTYPE, NON-PARATYPE SPECIMEN  
NON-CITED SPECIMEN – ORIGINAL DESCRIPTION  
SERVES AS TYPE WHEN ALL CITED TYPE SPECIMENS LOST  
SELECTED FROM GENERAL SPECIMENS

# TYPE SPECIMEN NEOTYPE



Unaopsis sigma Kellogg sp. nov.

A *Unaopsis* beta spicis femineis angustioribus, perigyniis brevioribus et ascendentioribus, perigyniis (1.7-)1.8-2.0 plo longioribus, rostris quam corporibus acheniorum, stipitibus acheniorum, rostris Acheniorum flexis differt; a Unaopsis delta. Perigyniis paucioribus, laxioribus, longioribus, et (1.9-)2.1-2.6(2.8) plo longioribus, quam latioribus differt; a speciebus imbibes pedunculis spicarum terminalium longioribus differt.

TYPE: Kellogg 2174

U.S.A. Mississippi

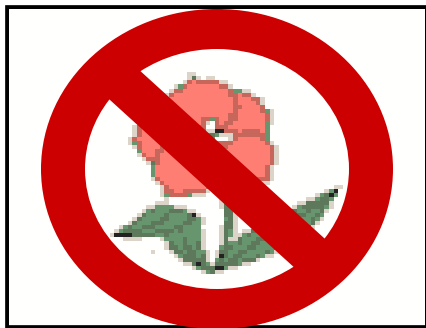
Lowndes County, ~1.8 miles west of Mayhew.

Holotype: MICH

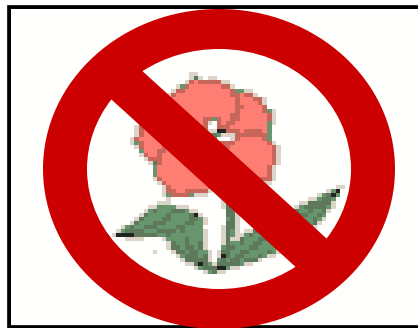
**ALL TYPE SPECIMENS LOST**

Isotype: NY; US

Paratype: Jones 1768 NY; Smith 2345 MO; Edwards 6785 GH



KELLOGG 2174  
MICH  
HOLOTYPE  
1<sup>ST</sup> PRECEDENT

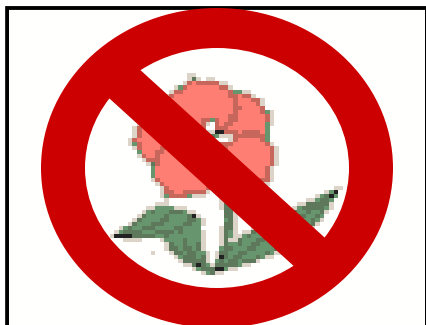


JONES 1768  
NY  
PARATYPE  
3<sup>RD</sup> PRECEDENT

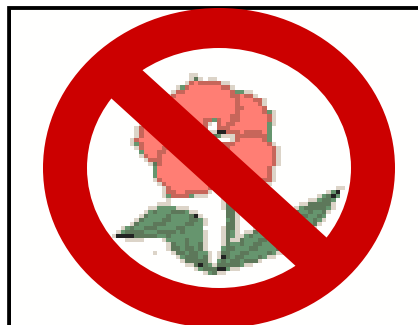
N

+

## ALL TYPE SPECIMENS LOST

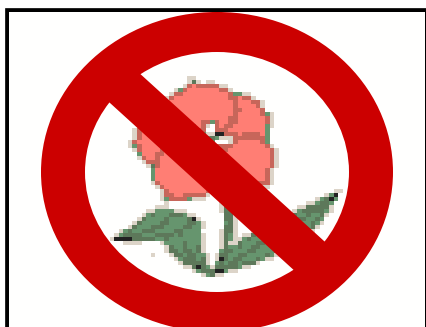


KELLOGG 2174  
NY  
ISOTYPE  
2<sup>ND</sup> PRECEDENT

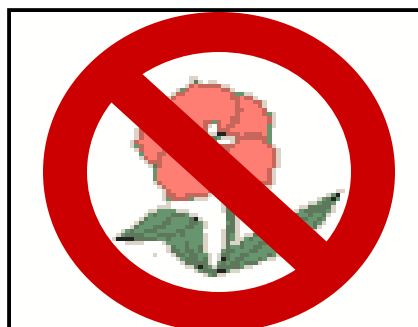


SMITH 2345  
MO  
PARATYPE  
3<sup>RD</sup> PRECEDENT

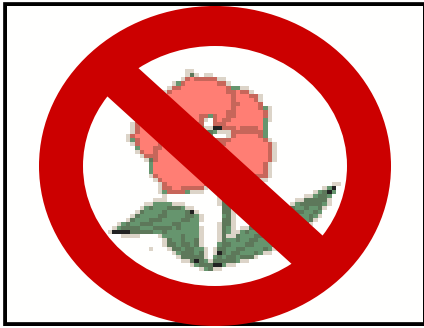
## ALL TYPE SPECIMENS LOST



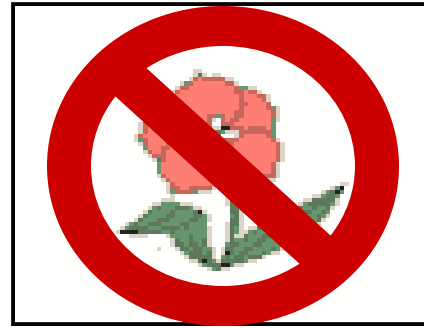
KELLOGG 2174  
US  
ISOTYPE  
2<sup>ND</sup> PRECEDENT



EDWARDS 6785  
GH  
PARATYPE  
3<sup>RD</sup> PRECEDENT

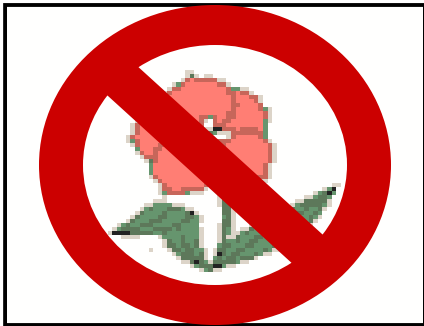


KELLOGG 2174  
MICH  
HOLOTYPE  
1<sup>ST</sup> PRECEDENT

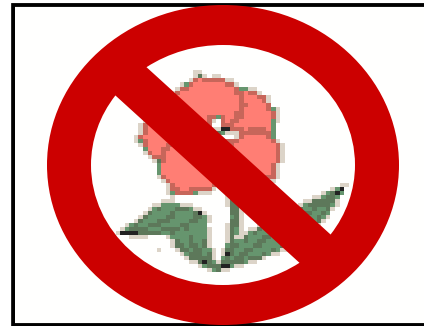


JONES 1768  
NY  
PARATYPE  
3<sup>RD</sup> PRECEDENT

**NEOTYPE SELECTED FROM GENERAL SPECIMENS**

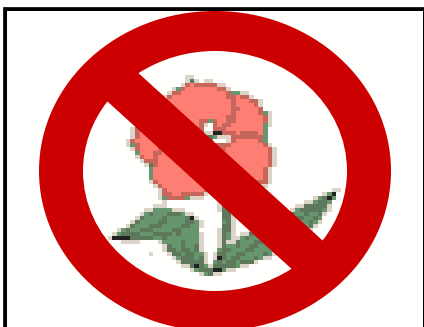


KELLOGG 2174  
NY  
ISOTYPE  
2<sup>ND</sup> PRECEDENT

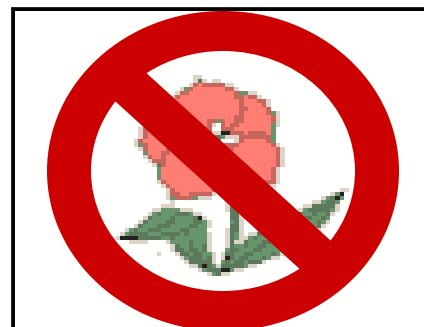


SMITH 2345  
MO  
PARATYPE  
3<sup>RD</sup> PRECEDENT

**TO SERVE AS THE TYPE SPECIMEN**



KELLOGG 2174  
US  
ISOTYPE  
2<sup>ND</sup> PRECEDENT



EDWARDS 6785  
GH  
PARATYPE  
3<sup>RD</sup> PRECEDENT

# LEGITIMATE RULE



# **LEGITIMATE BINOMIAL**