DIGEST
OF
AGRICULTURAL IMPLEMENTS
PATENTED IN THE UNITED STATES
FROM
A.D. 1789 TO JULY 1881.
[LIMITED TO 100 COPIES]
COMPILED AND ARRANGED BY
JAMES T. ALLEN,
UNITED STATES PATENT OFFICE,
WASHINGTON, D.C.

Plates

Entered according to
Act of Congress in the year
1881, by JAMES T. ALLEN,
in the Office of the Librarian,
of Washington, D.C.
CULTIVATORS.

J. M. Garett,
Cultivator.
Patented Feb. 9, 1886.

S. Ollman
Cultivator.
Patented Oct. 16, 1886.

W. J. Still
Cultivator.
Patented No. 46,883.

J. Knodle
Cultivator.
Patented Apr. 11, 1888.
M.I. Hunt, Cultivator
Patented Sept. 30, 1842

J. Parsons, Jr., Cultivator
Patented Dec. 18, 1842

T. Mann, Cultivator
Patented Nov. 24, 1843

A. Nelson, Cultivator
Patented Jan. 11, 1844
CULTIVATORS

R. L. Hart
Cultivator
Patented Sep 6, 1864

D. Richter
Cultivator
Patented Jan 3, 1864

W. W. Eames
Cultivator
Patented Dec 1, 1863

J. W. Green
Cultivator
Patented Mar 12, 1869
CULTIVATORS.

D. W. Shires
Cultivator
Patented Aug. 5, 1864

Fig. 1.

Fig. 2.

Fig. 3.
Cultivators

J. Slaven

Cultivator

Patented Nov. 27, 1850

Inventor
Joseph Slaven

H. M. Bolton

Cultivator

Patented Oct 27, 1860

Inventor
H. M. Bolton

Fig. 1

Fig. 2

Fig. 3

Fig. 4
CULTIVATORS.

W. H. Valer
Cultivator
Patented Apr. 16, 1861

Inventor.
W. H. Valer

Witnesses.
N. J. Thoman
E. W. Y. Johnson

J. A. Streeter
Cultivator
Patented Apr. 16, 1861

Inventor.
James J. Streeter
George P. Lock

Witnesses.
James J. Streeter
George P. Lock

I. Stout
Cultivator
Patented Apr. 16, 1861

Inventor.
I. Stout

Witnesses.
Eugene Galton
Edward Leary

C. W. Hackett
Cultivator
Patented May 26, 1861

Inventor.
C. W. Hackett

Witnesses.
O. J. Alldred
W. H. Helibick.
CULTIVATORS.

D. C. Gedland
Cultivator
Patented Dec 21, 1861

W. H. Kelty
Cultivator
Patented Mar 2, 1862

J. N. Bagdine
Cultivator
Patented Mar 13, 1862

W. Lyman, Jr.
Cultivator
Patented Mar 27, 1862

Inventor
James Elyzdale
CULTIVATORS

P. S. Armstrong
Cultivator
Patented May 8, 1862.

M. E. Cooper
Cultivator
Patented Aug. 13, 1862.

R. S. Tichenor
Cultivator
Patented Aug. 13, 1862.
CULTIVATORS

G.W. Connolly
Cultivator
Invented Aug. 2, 1864

J. M. Bunte
Cultivator
Invented Feb. 12, 1864

H. Ingram
Cultivator
Invented Feb. 27, 1864

Mason and Bamhart
Cultivator
Invented Apr. 9, 1865
CULTIVATORS

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Inventor:
R. Brighten Jr.

Patented Apr. 1, 1863

W. J. Cutter

Patented Apr. 1, 1863

Witnesses:

R. Brighten Jr.

Inventor:

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Witnesses:

R. Brighten Jr.

Inventor:

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Witnesses:

R. Brighten Jr.

Inventor:
CULTIVATORS
CULTIVATORS.

J. C. Rich.
Cultivator.
Patented Dec. 11, 1866.

No. 60,422.

S. A. Wray.
Cultivator.
Patented Jan. 1, 1867.

No. 60,982.

S. M. Whitney.
Cultivator.
Patented Jan. 15, 1867.

No. 61,294.
CULTIVATORS

A. CANFIELD
Cultivator
Patented Aug. 20, 1867.

No. 67,543.

Witnesses.

J. H. Pitton
H. W. Willard

Inventor.

N. H. Canfield

A. CANFIELD
Cultivator
Patented Aug. 20, 1867.

No. 67,544.

Witnesses.

J. H. Pitton
H. W. Willard

Inventor.

N. H. Canfield

G. W. SAWIN
Cultivator
Patented Aug. 20, 1867.

No. 67,917.

Witnesses.

A. A. Berry
Frank J. Porter

Inventor.

G. W. Sawin

J. P. STANTON
Cultivator
Patented Sept. 3, 1867.

No. 68,392.

Witnesses.

G. H. Smith
F. B. Miller

Inventor.

J. P. Stanton

E. B. Chase
J. C. Kelley

Inventor.
J. R. THOMAS.  
Cultivator.  
Patented Sept. 10, 1867.  
No. 68,670.

W. RICHARDSON.  
Cultivator.  
Patented Sept. 17, 1867.  
No. 68,901.

H. W. OHTROW.  
Cultivator.  
Patented Sept. 24, 1867.  
No. 62,330.

N. A. CATES.  
Cultivator.  
Patented Oct. 1, 1867.  
No. 62,814.
CULTIVATORS.

C. FLORY
Cultivator.
No. 69,981.
Patented Oct. 22, 1867.

RICE & HITCHCOCK
Cultivator.
No. 70,472.
Patented Nov. 5, 1867.

S. F. KROMER
Cultivator.
No. 70,578.
Patented Nov. 5, 1867.

Inventor.

Witnesses.

Inventor.

Witnesses.

Inventor.

Witnesses.
W. Franitz
Cultivator.
N°73087
Patented Jan 7, 1868
Cultivators.

Runstiller & Mindeck.
Cotton Plow & Cultivator.
N° 74005
Patented Feb 4, 1868.

Runstiller & Mindeck.
Cotton Plow & Cultivator.
N° 74005
Patented Feb 4, 1868.

Inventor
Andrew Runstiller
Albert Mindeck

Witnesses
Edward Parker
Nicholas Baker

Witnesses
Edward Parker
Nicholas Baker
CULTIVATORS

L. R. Wright
Cultivator
Patented Aug 16, 1888

WITNESSES

Charles W. Nelson
from 2, 129

INVENTOR

L. R. Wright

L. R. Wright
Cultivators and Plows Combined
No. 5,552.
Reissued August 12, 1973

INVENTOR

L. R. Wright

INVENTOR

L. R. Wright

INVENTOR

L. R. Wright
L. E. Wright
Cultivator and Flow Combined
No. 6,835.
Filed Feb. 22, 1876.

J. H. Dickson
Cultivator
No. 81,448.
Filed Aug. 13, 1868.

J. Meary
Cultivator
No. 80,189.
Filed Aug. 18, 1868.

M. Neely & Co.
Cultivator
No. 80,197.
Filed Sept. 1, 1868.
M. U. Hoover.

Cultivator

Inventor:

H. W. Hoover

No. 38457

Adopted Dec. 15, 1868

J. M. Miller.

Cultivator

Inventor:

Joseph B. Miller

No. 38457

Adopted Dec. 15, 1868

W. E. Berry.

Cultivator

Inventor:

C. Schwenger

No. 25169

Adopted Dec. 12, 1869

W. H. W. Bass

J. M. Miller

J. Schrager

Witnesses:

Joseph J. Hinshy

J. Schrager

Attorneys
CULTIVATORS.

E. Krupp
Plow
No. 88,723.
Inventor, Eli Krupp

J. M. Dormon
Plow
No. 89,656.
Inventor, J. M. Dormon

A. J. Lewis
Cultivator
No. 91,083.
Inventor, A. J. Lewis

B. M. Olsen
Cultivator
No. 94,212.
Inventor, B. M. Olsen

Witnesses:

Paul B. Whitman
John A. Clark

Witnesses:

Ralph C. Amsden

Withers:

W. C. Bowers

McCauley Orr & Orr.
Combination Plow
Patented Aug 10, 1869.

Z.D. Sims.
Cultivator
Patented Aug 10, 1869.

F.F. Reynolds.
Cultivator
Patented Aug 16, 1869.

J. Beale.
Cultivator
Patented Aug 16, 1869.
CULTIVATORS.

J. G. Emwood
Cultivator.  
No. 10191.  
Inventor:  
John H. Holmbe.
Patented: Mar. 2, 1880.

W. Holmbe.
Cultivator.  
No. 10192.  
Inventor:  
John H. Holmbe.
Patented: Mar. 2, 1880.
CULTIVATORS.

N. S. Shields.
Cultivator.
No. 104033.
Invented Sept. 6th 1886.

J. S. Staunton.
Cultivator.
No. 104034.
Invented Sept. 6th 1886.

T. L. Foye.
Cultivator.
No. 104866.
Invented Aug. 29th 1887.

O. W. White.
Cultivator.
No. 107168.
Invented Sept. 6th 1887.
CULTIVATORS.

INVENTOR

Inventor

Albert H. Kennedy.

WITNESSES

Charles S. Harris

INVENTOR

F. N. PYLE.

Patented April 25, 1871.

F. N. PYLE.

Improvement in Cultivators.

No. 114,040.

Inventors

J. S. Vose

Witnsees

H. H. Morse

J. C. Enos.
M. R. SHALTERS
Improvement in Plows.
Patented May 5, 1871.

L. S. TEWELL
Improvement in Cultivator-Plows
Patented May 5, 1871.

G. W. PARSONS & W. S. FINNEY
Improvement in Cultivators and Shovel-Plows
Patented May 5, 1871.
T. E. C. Brinly.

Improvement in Cultivators.

No. 116,147.

Patented June 20, 1871.

W. J. Arrington.

Cultivator.

Patented Aug. 15, 1871.

W. J. Arrington.

Inventor.

P. W. Olmstead

Inventor.

Frank W. Olmstead

Inventor.
S. B. SHANK'S
Combinant Cultivator's Corn-Worker.
Inventor: JACOB S. FLEMING.
Inventor: S. B. Shank

No. 118,522.
Patented Aug. 29, 1871.

B.C. Blomstens
Improvement in Cultivators.

[Diagram of cultivators]
JAMES WADDELL.
Improvemeut in Cultivators
No. 119,206
Patented Sept. 19, 1871

JOHN S. NOLAN.
Improvement in Cultivators.
No. 110,639
Patented Oct. 3, 1871.

FRANCIS L. PERRY
Cultivator
No. 119,786
Patented Oct. 3, 1871.
JOHN T. BRITTAIIN
Improvement in Cultivators.
No. 120,028.
Inventor. John T. Brittain.

A. C. SMITH
Cultivator.
No. 120,103.
Inventor. A. C. Smith.

A. C. SMITH
Cultivator.
No. 5,547.
Inventor. A. C. Smith.

A. C. TAYLOR
Cultivator.
No. 120,794.
Inventor. A. C. Taylor.
WILLIAM M. WATKINS.

Improvement in Cultivators.

No. 121,439. 
Patented Nov. 28, 1871.

D. W. BOWMAN.

Improvement in Cultivators.

No. 121,484. 
Patented Dec. 5, 1871.
T. MEIKLE
SHOVEL FLOW.
No. 121,535.
Patented Dec. 5, 1871.

JOHN R. MINTER.
Improvement in Cotton Cultivator.
No. 123,410.
Patented Feb. 6, 1872.

S. C. SHELLER.
Improvement in Cultivators.
No. 123,583.
Patented Feb. 17, 1872.

N. SCHWARTZ.
Improvement in Cultivators.
No. 123,128.
Patented Jan. 30, 1872.

Witnesses.

Inventor.

Inventor.

Inventor.
CULTIVATORS.

F. H. McMEEKIN
Improvement in Plows.
No. 123,717
Patented Feb. 12, 1872.

M. J. BARR
Improvement in Cultivators.
No. 124,316
Patented March 6, 1872.

J. G. LACY
Cultivator and Potato Digger.
No. 125,057
Patented March 20, 1872.

C. M. CLARK
Improvement in Cultivators.
No. 125,936
Patented April 23, 1872.
CULTIVATORS.

WILLIAM H. VICK.
Improvement in Cultivators.
No. 126,658.
Patented May 14, 1872.

WILLIAM KLEFFEL.
Improvement in Cultivators.
No. 126,815.
Patented May 14, 1872.

A. B. SPRINGSTEEN.
Improvement in Cultivators.
No. 126,991.
Patented May 21, 1872.
W. W. CATO
Improvement in Cultivators.
No. 128,360.
Patented June 25, 1872.

M. D. KING.
Improvement in Cultivators.
No. 128,734.
Patented July 9, 1872.

F. W. TOLLEY.
Cultivator.
No. 128,827.
Patented July 9, 1872.
W. BAKER.
Improvement in Cotton-Cultivators.
No. 129,061.

C. MARSH, 2nd.
Improvement in Cultivators.
No. 130,384.
Patented Aug. 30, 1872.

B. LANG.
Improvement in Cultivators.
No. 129,894.
Patented July 20, 1872.

B. J. SVENSON.
Improvement in Cultivators.
No. 130,765.
Patented Aug. 30, 1872.
G. D. CLEAVELAND.
Improvement in Cultivators.
No. 131,150.
Patented Sep. 10, 1872.

B. S. COX.
Improvement in Cultivators.
No. 132,201.
Patented Oct. 15, 1872.

G. JESSUP.
Improvement in Cultivators.
No. 132,764.
Patented Nov. 5, 1872.

W. BROOKS.
Improvement in Cultivators.
No. 132,796.
Patented Nov. 5, 1872.
CULTIVATORS.

Z. D. BLAKISTONE
Tobacco-Killers

Fig. 3

WITNESSES.

No. 136,574

Patented March 4, 1873.

E. WiARD.

Cultivators.

Inventor.

J. E. Campbell.

Patented March 18, 1873.

Z. D. Blakistone.
Tobacco-Killers

Fig. 1

WITNESSES.

No. 136,898

Patented March 18, 1873.

Z. D. Blakistone.
Tobacco-Cultivators.

Inventor.

J. E. Campbell.

Patented March 29, 1873.

M. Lewellin
Cultivators

Inventor.

J. E. Campbell.

No. 137,221

Patented March 29, 1873.

M. Lewellin
Cultivators

Inventor.
CULIVATORS.

C. ZOCHER
Cotton Cultivators
Patented June 10, 1873
No. 139,780

G. F. KUSCHERT
Cultivators
Patented July 10, 1873
No. 140,724

J. CAYLOR
Cultivators
Patented July 15, 1873
No. 140,885

E. BRIGGS
Cultivators
Patented July 29, 1873
No. 141,199

Witnesses:
F. C. Shaver
J. W. Ziegenfuss

Witnesses:
J. B. Sugar
John P. K. Leveson

Witnesses:
G. L. Schaefer
W. D. Hodge

Witnesses:
Ephraim Briggs
M. W. Williams
CULTIVATORS.

No. 145,038.

C. M. CLARK
Plows
No. 145,027.

Fig. 1

Fig. 2

INVENTOR

c

A. C. SMITH.
Cultivators.
No. 145,201.

H. VON PHUL, JR. & J. MALLON
Sugar-Cane Cultivators.
No. 146,216.

Fig. 1

Fig. 2

INVENTOR

Witnesses.

Witnesses.

J. W. Dillen.
C. S. Lack.

By

Attorneys.

Attorneys.
J. A. BARNETT
Corn-Plows
No. 149,181. Patented March 31, 1874.

W. H. CARTER.
Clay Cutters.
No. 149,714. Patented April 14, 1874.

S. SEVERV.
Cultivators
No. 150,719. Patented May 12, 1874.

J. H. SHIELDS
Plow Supports.
No. 151,549. Patented June 2, 1874.
CULTIVATORS

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

Fig. 8

Fig. 9

Fig. 10

Fig. 11

INVENTOR.

T. H. GARLAND

No. 156,847.

Patented Nov. 17, 1874.

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

Fig. 8

Fig. 9

Fig. 10

Fig. 11

INVENTOR.

T. H. GARLAND

No. 156,847.

Patented Nov. 17, 1874.

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

Fig. 8

Fig. 9

Fig. 10

Fig. 11

INVENTOR.

T. H. GARLAND

No. 156,847.

Patented Nov. 17, 1874.

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

Fig. 8

Fig. 9

Fig. 10

Fig. 11

INVENTOR.

T. H. GARLAND

No. 156,847.

Patented Nov. 17, 1874.

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

Fig. 8

Fig. 9

Fig. 10

Fig. 11

INVENTOR.

T. H. GARLAND

No. 156,847.

Patented Nov. 17, 1874.

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

Fig. 8

Fig. 9

Fig. 10

Fig. 11

INVENTOR.

T. H. GARLAND

No. 156,847.

Patented Nov. 17, 1874.

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

Fig. 8

Fig. 9

Fig. 10

Fig. 11

INVENTOR.

T. H. GARLAND

No. 156,847.

Patented Nov. 17, 1874.

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

Fig. 8

Fig. 9

Fig. 10

Fig. 11

INVENTOR.

T. H. GARLAND

No. 156,847.

Patented Nov. 17, 1874.

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

Fig. 8

Fig. 9

Fig. 10

Fig. 11

INVENTOR.

T. H. GARLAND

No. 156,847.

Patented Nov. 17, 1874.

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

Fig. 8

Fig. 9

Fig. 10

Fig. 11

INVENTOR.

T. H. GARLAND

No. 156,847.

Patented Nov. 17, 1874.

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

Fig. 8

Fig. 9

Fig. 10

Fig. 11

INVENTOR.

T. H. GARLAND

No. 156,847.

Patented Nov. 17, 1874.
CULTIVATORS.

M. EUSTACE, J. & T. KENNAR.

Machine for Thinning or Spacing Crops.

No. 159,058
Patented Feb. 6, 1875.

Fig. 1

Inventor:
James K. Stains
Whitmarsh & Co.

Witness:
A. G. Cargile
C. K. Cargile

M. EUSTACE, J. & T. KENNAR.

Machine for Thinning or Spacing Crops.

No. 159,059
Patented Feb. 7, 1875.

Fig. 2

Inventor:
James K. Stains
Whitmarsh & Co.

Witness:
A. G. Cargile
C. K. Cargile

W. EUSTACE, J. & T. KENNAR,

Machine for Thinning or Spacing Crops.

No. 159,059
Patented March 2, 1875.

No. 160,353

Cultivator.

Fig. 1

Inventor:
P. G. Roguemore

Witness:
A. C. H. Blake
C. H. Blake

Richard N. Hale

Cultivators.
CULTIVATORS

J. ROBESCH
Wood Cutter and Hiller.
No 100,545
Patented March 9, 1875.

Fig. 1
Fig. 2
Fig. 3
Fig. 4
Fig. 5

Robert.

Cultivator.

ROBERTS.

WITNESSES.
Charles S. Branch.

F. W. TOLLEY
Cultivator.
No 101,455
Patented March 30, 1875.

Fig. 1
Fig. 2
Fig. 3
Fig. 4

F. W. Tolley
Cultivator and Harrow Combined.
No 163,523
Patented May 16, 1875.

Fig. 1
Fig. 2
Fig. 3
Fig. 4

E. W. POTTER
Cultivator.

WITNESSES.

Charles W. Potter
Attorney.

INVENTOR.

INVENTOR.

LEONARD B. Roberts

INVENTOR.

E. W. Potter

INVENTOR.

INVENTOR.

INVENTOR.
CULTIVATORS

J. PIERFPONT.
CULTIVATOR.
Patented Dec. 21, 1875.

No. 171,529.

J. W. CHASE.
CULTIVATOR.
Patented Dec. 20, 1875.

No. 171,503.

H. C. COLE.
CULTIVATOR.
Patented Feb. 1, 1876.

No. 172,339.

J. A. PRICE.
CULTIVATOR.
Patented Feb. 8, 1876.

No. 173,320.
CULTIVATORS.

D. T. Vickery.
CULTIVATOR. Patented July 25, 1876.

Fig. 1

Fig. 2

Fig. 3

Witnesses:

J. W. Cheek.
CULTIVATOR. Patented Aug. 15, 1876.

Fig. 1

Fig. 2

Fig. 3

H. W. C. Green.
CULTIVATORS. Patented Aug. 15, 1876.

Fig. 1

Fig. 2

Fig. 3

Witnesses:

H. C. Troxell.
PLOWS. Patented Aug. 29, 1876.

Fig. 1

Fig. 2

Fig. 3

Witnesses:

H. W. C. Green.

Inventor:

J. W. Cheek.

Attorney.

J. W. Cheek.

Inventor:

H. W. C. Green.

Attorney.

J. W. Cheek.

Inventor:

H. W. C. Green.

Attorney.
A. JONES
Cultivator.
No. 196,670. Patented Oct 30, 1877

C. J. COOPER.
Double-Winged Cultivator.
No. 197,100 Patented Nov. 13, 1877

J. P. TERRY
Cultivator.
No. 197,184 Patented Nov. 13, 1877

A. G. FERRY
Flése.
No. 197,660 Patented Nov. 27, 1877.
CULTIVATORS

M. JOHNSON
Cultivator
No. 203,048.
Patented April 30, 1878.

J. GEORGE.
Cultivator.
No. 205,630.
Patented July 2, 1878.

M. JOHNSON
Cultivator.
No. 203,048.
Patented April 30, 1878.

B. F. MORRIS & E. H. AUSTIN
Cultivator and Seeder.
No. 205,668.
Patented July 2, 1878.
H. D. TERBELL.
Scraper Attachment for Shovel-Plow.
No. 206,505. Patented July 30, 1878

F. SÖDERLUND.
Corn-Plow.
No. 206,752. Patented Aug. 6, 1878.

S. WILLIAMS & C. C. MORGAN.
Flower.
No. 206,854. Patented July 30, 1878.

F. SÖDERLUND.
Hoeing-Machine.
No. 207,443. Patented Aug. 27, 1878.
CULTIVATORS.

R. K. NIECE
Cultivator.
Patented Sept. 3, 1878.
No. 207,767.

J. SMITH
Cultivator.
Patented Sept. 3, 1878.
No. 207,778.

H. J. GENTZSCH, Sr.
Plow.
Patented Sept. 10, 1878.
No. 207,960.

K. P. GRANT
Wender.
Patented Sept. 17, 1878.
No. 208,084.
CULTIVATORS.

E. TRUMBO.  
Cultivator.  
No. 209,366.  
Patented Oct. 29, 1878.

INVENTOR:  
E. Trumbo.

WITNESS:  
J. M. Otwell

A. McCURLEY. 
Combined Harrow and Cultivator.  
No. 209,823.  
Patented Nov. 12, 1878.

INVENTOR:  
A. McCurley

WITNESS:  
Henry K. Miller

J. JENNINGS, Jr.  
Cultivator.  
No. 209,481.  
Patented Oct. 29, 1878.

INVENTOR:  
J. J. Jennings, Jr.

WITNESS:  
John O. Brown

L. M. OTWELL.  
Plow and Cultivator.  
No. 210,351.  
Patented Nov. 26, 1878.

INVENTOR:  
L. M. Otwell

WITNESS:  
D. M. Otwell

ATTORNEY.
CULTIVATORS.

G. A. OBAIN.
Cultivator.
No. 215,885. Patented May 27, 1879.

G. W. PETERSON.
Cultivator.
No. 216,449. Patented June 10, 1879.

C. E. ESTES.
Cotton Wing-Sweep.

C. STEPHENS
Cultivator.
CULTIVATORS.

J. M. Richards.
Cotton-Scraper.
No. 222,287.
Patented Dec. 9, 1879.

Fig. 1.

Fig. 2.

Fig. 3.

Attest:

William Raston.

Inventor:

J. M. Richards.

P. E. Brown.

J. M. Richards.

M. Boldridge.
Cultivator.
No. 222,783.
Patented Dec. 23, 1879.

Fig. 1.

Fig. 2.

Fig. 3.

Attest:

M. Boldridge.

Inventor:

M. Boldridge.

G. W. Goodwyn.
Cultivator and Cultivator Teeth.
No. 222,893.
Patented Dec. 23, 1879.

Fig. 1.

Fig. 2.

Fig. 3.

Attest:

G. W. Goodwyn.

Inventor:

J. J. Deal.
Cultivator.
No. 223,713.
Patented Jan. 20, 1880.

Fig. 1.

Fig. 2.

Fig. 3.
CULTIVATORS.

W. L. DIETZ.
Broom-Corn and Cotton-Scraping and Cultivator.
No. 224,402
Patented Feb. 10, 1880.

L. B. MOBAN.
Plow and Cultivator Handles.
No. 226,533.
Patented April 13, 1880.

J. W. FLEMING.
Combined Cultivator and Harrow.
No. 226,656.
Patented April 20, 1880.
J. J. DEAL.
Corn Cultivator...
No. 242,279.
Patented May 31, 1881.

J. W. FLEMING.
Combined Cultivator and Harrow.
No. 241,885.
Patented May 24, 1876

Volunteer
J. W. Fleming
Attorney

Inventor
James W. Fleming
M. L. ROBERTS.
Revolving Moldboard.
No. 62,367.
Patented Feb. 26, 1867.

J. CUSTEY.
Land-Roller.
No. 63,224.
*Patented Mar. 20, 1867.
CULTIVATORS-DISK.

M. A. & I. M. GRAFATH.
Roatary Cultivator

Patented July 16, 1867

No. 66,972

Inventor.

Witnesses.

J. B. L. L. A.

L. COLEMAN

Revolving-Savow.

Patented Aug. 15, 1867

No. 67,654

Inventor.

Witnesses.

J. A. H. A.

E. RITSON.

Graaw Drill.

Patented Oct. 1, 1867

No. 69,684
E. Crane.

Scarring the Soil Preparatory to Planting.
N°78376
Patented Jan 26 1868

E. Crane.

Planting-Harrow
N°78304
Patented Apr 7, 1868.
CULTIVATORS DISK

A. B. Bowd.tt
Plowing Matt
Patented Dec. 31, 1870

Fig. 1

Fig. 2

Inventor:
A. Bowdett
Moncton

Witneses:

A. E. Palmer.
Three Barrow
Patented Jan. 4, 1890

Fig. 1

Fig. 2

Inventor:
A. E. Palmer
Moncton

Witneses:
C. W. G., Alon T. Richards

J. E. St. 1.4nt.
Four
Patented Dec. 31, 1880

Fig. 1

Fig. 2

Inventor:
J. E. St. 1.4nt.
Moncton

Witneses:
Joseph 7. Huday, John 7. Huday,
by Buchanan, 7. lbirt, his 7. 1. 1870.
CULTIVATORS DISK.

J. S. Godfrey

Attachment of Revolving Mold-Board for Plows.
No. 314,002.
Patented April 25, 1871.

Inventor:
Joseph S. Godfrey
By Sarah L. Godfrey, his wife.
CULTIVATORS-DISK

ADOLPHE TOURNIER, ORANGEVILLE, ORANGE COUNTY, N.Y.

TOOL FOR TRIMMING SOD.

APRIL 1871.

17,486

I. P. Tice, Pulverizing Roller Plow.

No. 118,758.

Patented Sep. 5, 1871.

E. A. Leonhard, Combined Cotton Chopper, Seeder, and Cultivator.

No. 118,951.

Patented Sep. 17, 1871.

John Schlosser's Impd. Clod Crusher.

No. 118,749.

Patented Sep. 5, 1871.

Inventor.

John Schlosser.

179 & 181, No. 8.

Albany.
GEORGE E. HUTCHINSON

Improvement in Cultivators.
No. 125,681.
Patented April 18, 1872.

E. T. BUSSELL

Improvement in Discs for Agricultural Implements.
No. 127,677.
Patented June 17, 1872.

2 Sheets - Sheet 1.

E. T. BUSSELL
Revolving Disc Plows.
No. 128,588.
Patented July 2, 1872.

2 Sheets - Sheet 2.
CULTIVATORS DISK.

A. CANTERBURY.
Seed and Barley Drill.
No. 155,426.
Patented Sept. 29, 1874.

ANGELINE UNDERWOOD.
Seed Pulverizer.
No. 160,129.
Patented Feb. 23, 1875.

R. S. REDFIELD.
Clod Crushers.
No. 155,975.
Patented Oct. 13, 1874.

S. G. RANKALL.
Disk Narrow Cultivator.
No. 161,060.
Patented March 23, 1875.
Cultivators' Disk.

T. Sanders & L. C. Nicholas.

Barrow and Cultivator.

No. 193,939.
Patented Aug. 7, 1877.

Fig. 1

Fig. 2

Fig. 3

Fig. 4

J. B. Wall.

Combined Harrow, Seed-Planter, and Roller.

No. 195,677.
Patented Sept. 26, 1877.

Fig. 1

Fig. 2

Fig. 3

Fig. 4
J. LANE.
No. 223,151.
Patented Dec. 30, 1879.

C. R. POSTLE.
No. 224,006.
Patented Feb. 3, 1880.

C. R. FOSTER.
No. 224,009.
Patented Feb. 3, 1880.

F. BEAMER.
No. 225,131.
Patented Mar. 9, 1880.
CULTIVATORS DISK.

G. E. ST. JOHN & J. E. UNDERWOOD
Rotary-Plow.
No. 227,070.
Patented April 27, 1880.

F. BRAMER & G. G. CROWLEY
Harrow or Cultivator.
No. 227,724.
Patented May 18, 1880.
CULTIVATORS DISK.

F. BRAPER & G. G. CROWLEY.
Harrow or Cultivator.
No. 227,724. Patented May 18, 1880.

T. E. JEFFERSON.
Plow.

H. IVES.
Cultivator.
No. 231,582. Patented Aug. 24, 1880.
CULTIVATOR'S PARALLEL

C. B. CARTER.
CULTIVATOR.
No. 178,610.
Patented June 9, 1874.

W. CLARK.
DOUBLe FLOWS.
No. 184,590.
Patented Nov. 21, 1876.
CULTIVATORS-ROTARY.

L. Mooney
Rotary Cultivator
Patented Dec. 15, 1869.

A. J. Stephen
Cultivator
No. 87,731.
Patented Apr. 20, 1869.

F. C. Cone
Spading Mach.
No. 383,363.
Patented Mar. 30, 1869.

L. Sherwood
Spading Mach.
No. 92,786.
Patented Jul. 20, 1869.
CULTIVATORS-ROTARY.

W. E. BLEECKER

Improvement in Rotary-Plows.
No. 129,206.
Patented July 16, 1872.

Fig. 1

G. A. FORSGARD

Improvement in Cultivators.
No. 131,160.
Patented Sep. 10, 1872.
H. SKILLINGS.
Rotary Cultivator.
No. 198,163.
Patented Dec. 11, 1877.

C. C. SREEDEN & G. T. WHEELER.
Rotary Cultivator.
No. 198,540.
Patented Dec. 25, 1877.

J. GRANER.
Rotating Cultivator.
No. 198,163.
Patented Dec. 11, 1877.
CULTIVATORS-ROTARY

C. E. SACKETT
Cultivators.

C. E. SACKETT
Cultivators.

C. J. DANIELS.
Combination Harrow and Plow
No. 218,429. Patented Aug. 12, 1879.

C. J. DANIELS.
Combination Harrow and Plow
No. 218,429. Patented Aug. 12, 1879.
C. E. Sackett
Combined Plow, Harrow, and Seed-Drill.

R. R. Pedrick
Plow
No. 221,095. Patented Oct. 28, 1879.
T. H. McCray
Rotary Plow

H. H. Spencer
Spading Machine
No. 236,641. Patented Jan. 11, 1881.
CULTIVATORS-ROTARY

J. SCHUCHARD.
Rotary Spading Machine.
No. 238,532.
Patented March 8, 1881.

C. E. SACKETT.
Combined Plow, &c.
No. 238,970.
Patented March 15, 1881.
C. E. Sackett.
Combined Plow, &c.
No. 238,970.
Patented March 15, 1881.

Charles E. Sackett
Attorney
CULTIVATORS-STRADDLE-ROW

A. F. & T. M. STANSBURY
Cultivator.
Patented Mar. 17, 1867

J. EKRTZ
Cultivator
Patented Oct. 26, 1867

Witnesses

Inventor.

Witnesses

Inventor.

INVENTOR

J. EKRTZ

INVENTOR

J. F. REED,

G. R. REED.
Cultivator: Straddle-Row

C. G. Clark
Cultivator

M. Wilson
Cultivator

C. E. Stoller
Cultivator

J. T. Frankenburg's Cultivator

Inventor: J. T. Frankenburg

Witnesses:

Inventor: C. E. Stoller

Witnesses:

Patent No. 68,206
Patented Aug. 27, 1867

Patent No. 68,678
Patented Sept. 10, 1867

Patent No. 72022
Patented Dec. 10, 1867

Patent No. 72107
Patented Dec. 24, 1867
CULTIVATORS: STRADDLE-ROW

Thomas J. Ellis
Cultivator
No. 118,049
Patented Apr. 15, 1872

Geo. W. Owens
Corn Cultivator
No. 118,549
Patented Aug. 29, 1871

HENRY WELD
Cultivator
No. 119,904
Patented Oct. 10, 1871

WILLIAM W. ANDREW
Improvement in Cultivators
No. 124,241
Patented March 5, 1872
J. A. THOMPSON
Cultivator.
No 168,796
Patented Sept. 20, 1875

T. M. SHAW.
Sideo-FloW
No 170,735
Patented Dec. 1, 1875

T. J. HOOVER & J. T. HENDERSON
FLOW
No 175,986
Patented April 1, 1876

G. CROLL
COMBINED CULTIVATOR AND HORSFOW
No 169,677
Patented Nov. 3, 1875
CULTIVATORS-STRADDLE-ROW

E. E. McEWEN & O. R. ADAMS.
Cultivator
Patented March 29, 1881.
No. 239,523.

C. H. CARTER.
Plow.
Patented June 7, 1881.
No. 242,508.

Inventors

Witnesses

ATTORNEY

ATTORNEY

ATTORNEY
CULTIVATOR TEETH

J. S. EASTMAN

Cultivator Teeth.

J. S. EASTMAN

Cultivator Teeth.

J. M. JAYNE

Cultivator Teeth

J. M. JAYNE

Cultivator Teeth

J. RUMFORD

Cultivator Teeth

J. RUMFORD

Cultivator Teeth
Sayre & Milich
Cultivator Teeth
Patented Feb. 12, 1856

Sayre & Milich
Cultivator Teeth
Reissued Jan. 4, 1869
E. SEWARD.

Cultivator-Teeth.

Patented Aug. 6, 1867

Inventor.

E. Seward.

Witnesses.

J. M. Wilcox
A. L. Fox

No. 67,456.

CULTIVATOR-TEETH.
CULTIVATOR-TEETH

WEST & PAUL
Cultivator-Teeth.
Patented Oct. 8, 1867.

Rogers
Cultivator Teeth.
Patented Feb. 2, 1868

Lowth & Horne
Cultivator-Tooth
Patented Mar. 10, 1868

J. D. De Turk
Cultivator-Teeth
Patented Mar. 17, 1868
D. Dean
Cultivator Teeth
Inventor
Patented Jan 30, 1863

W.B. Ready
Cultivator Teeth
Inventor
Patented Jul 22, 1863

Witnesses
H.B. Jones
W. F. Scott

Witnesses
A. B. Jones
W. F. Scott

Inventor
D. Dean
Patent No. 47,131

Inventor
W.B. Ready
Patent No. 63,323
J. Harris.
Improvement in Cultivators
No. 4,812.
Revised March 19, 1872.
E. L. Freeman
Cultivator Teeth
No. 82422. Patented Apr. 27, 1869.

J. B. Moore
Cultivator
No. 80430. Patented Apr. 27, 1869.

B. S. Hoar
Cultivator
No. 89321. Patented Apr. 27, 1869.

W. J. Harris
Improvement in Cultivators.
No. 4,813. Issued March 19, 1872.

Witnesses
Inventor
James W. Moore.

E. L. Freeman
Inventor

W. J. Harris
Inventor

Witnesses
Inventor
James W. Moore, J. B. Moore.

Witnesses
Inventor
W. J. Harris, J. B. Moore.

Witnesses
Inventor
E. L. Freeman.
CULTIVATOR-TEETH.
CULTIVATOR-TEETH.

Thomas F. Hamilton.

Improvement in Cultivators. Flows, &c.
No. 118,362.
Patented Aug. 23, 1871.

Fig. 1.

Inventor.
John F. Hamilton

By Donald M. Young

SAMUEL SNIDER.

Improvement in Cultivators.
No. 120,789.
Patented Nov. 7, 1871.

JAMES MALLON & HENRY VON PHUL, Jr.

Improvement in Cultivators.
No. 121,784.
Patented Dec. 12, 1871.
A Friberg.
Improvement in Cultivator
No. 127,197.
Patented June 11, 1872.

Fig 1

Fig 2

Fig 3

Witnesses:
E. S. Locke
W. J. Biegel

Inventor:
A. Friberg

C. H. Watson.
Improvement in Cultivators.
No. 128,686.
Patented July 3, 1872.

Fig 1

Fig 2

Witnesses:
W. A. Thomas
J. R. Emde

Inventor:

E. Parmele & G. Curkendall.
Improvement in Cultivators.
No. 129,859.
Patented July 23, 1872.

Fig 1

Fig 2

Fig 3

Witnesses:
A. S. King
A. C. King

Inventor:
A. Parmele

H. L. Gorham.
Improvement in Cultivators.
No. 131,818.
Patented Oct. 6, 1872.

Fig 1

Fig 2

Fig 3

Scale 1/16 inches 1 in.

Witnesses:
Jacob Nickel
M. F. Ginn

Inventor:
Margaret Gorham
CULTIVATOR-TEETH.

G. W. ESTERY & J. VAN DE WATER.
Improvement in Cultivators.
No. 132,891.
Patented Oct. 1, 1872.

F. W. TOLLEY.
Cultivators.
No. 134,443.
Patented Oct. 11, 1872.

G. S. BUSHKELL.
Cultivators.
No. 134,728.
Patented Jan. 14, 1873.

G. F. STROUD.
Cultivator Teeth.
No. 141,400.
Patented July 20, 1873.
CULTIVATOR-TEETH

B. TOWN
DEVICES FOR FRACING CULTIVATOR-TEETH
No. 106,735.
Patented July 31, 1877.

Fig. 1.

Fig. 2.

Fig. 3.

Witnesses.

Inventor.

Patented Aug. 21, 1877.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Witnesses.

Inventor.

J. E. OWEN.
CULTIVATOR-CLADES
No. 194,631.
Patented Aug. 28, 1877.

M. JOHNSON.
Cultivator-Tooth
No. 197,638.
Patented Nov. 27, 1877.
C. G. Gardiner
Cultivator and Seeding Machine
No. 198,372. Patented Dec. 18, 1877.

S. H. Ford
Cultivator
No. 199,634. Patented Jan. 29, 1878.

W. A. Van Brunt & S. E. Davis
Cultivator-Teeth
No. 201,304. Patented March 12, 1878.
CULTIVATOR-TEETH

H. CARSON.
Cultivator Teeth.
No. 203,417 Patented May 7, 1878.

F. T. BERTRAND.
Cultivator Teeth.
No. 205,828 Patented July 9, 1878.

W. H. DICEY.
Cultivator.
No. 208,376 Patented Oct. 1, 1878.

W. A. KNOWLTON.
Cultivator.
No. 211,099 Patented Jan. 7, 1879.
W. H. Dickey.
Cultivator.
No. 214,373. Patented April 15, 1879.

Fig. 1

Fig. 2

Fig. 3

Witnesses:
W. H. Dickey
John R. Walker

Inventor:
W. H. Dickey

Drill-Teeth.

Fig. 1

Fig. 2

Fig. 3

Witnesses:
J. W. Lafferty
G. B. Brown

Inventor:
G. B. Brown

T. B. Kendall.
Cultivator.
No. 214,825. Patented April 29, 1879.

Fig. 1

Fig. 2

Fig. 3

Witnesses:
T. B. Kendall
W. H. Dickey

Inventor:
T. B. Kendall

W. H. Dickey.
Cultivator.

Fig. 1

Fig. 2

Fig. 3

Witnesses:
W. H. Dickey
John R. Walker

Inventor:
W. H. Dickey

by W. H. Dickey
CULTIVATOR TEETH.

C. M. STEVENS
Men for Attaching Cultivator Teeth
No. 236,317. Patented Jan. 4, 1881

W. F. BROWN
Plow Attachment.
No. 238,846. Patented March 15, 1881

W. WORKMAN & J. HITCHCOCK,
Fiction Block for Attaching Cultivator and other Teeth
No. 110,103. Patented Dec. 13, 1877
Released April 3, 1881.

D. O. EVEREST,
Cultivator
No. 239,947. Patented April 12, 1881.
J. J. McLENN.
Cultivator Tooth
No. 240,159.
Patented April 12, 1881.

W. W. SPEER.
Cultivator Tooth
No. 242,390.
Patented May 31, 1881.

R. A. BURNETT.
Flow
No. 242,266.
Patented May 31, 1881.
CULTIVATORS WHEEL OR SULKY.

PP Root

Wheel Cultivator
Patented Jun 8 1859

J. Bouquet

Wheel Cultivator
Patented Jan 1864

J. Iriz

Wheel Cultivator
Patented 1866
CULTIVATORS WHEEL OR SL. KY

B. P. Flaggett
Wheel Cultivator
Patented Jan. 15, 1857

Fig. 1

L. Whitley
Wheel Cultivator
Patented Sept. 7, 1854

Fig. 1

B. S. Morgan
Wheel Cultivator
Patented Oct. 5, 1852

Fig. 1

Fig. 2

Fig. 3
CULTIVATORS-WHEEL OR SULKY.

W. Millen.

Wheel Cultivator
Wheel Cultivator

Patented Oct 12, 1853
Patented Feb 6, 1852

J. Cunningham.
J. Dunlop.

Wheel Cultivator
Cultivator

Patented Jan 18, 1853
Patented Feb 6, 1852

Inventor,
Inventor,

Jesse Cunningham.

CULTIVATORS WHEEL, OR SULKY.

J. S. Martham & D. Hand

Inventor, James Martham & D. Hand

Patented Mar. 8, 1864

Inventor, James Hand

Patented March 22, 1869

Inventor, James Hand

Patented Mar. 8, 1864
CULTIVATORS WHEEL OR SULKY

THOMAS MCGUISTON
Improvement in Cultivators
No. 4,383
Patented May 6, 1871

A. CAREY
Wheel-Cultivator
No. 27,189
Patented Feb. 14, 1880
CULTIVATORS: WHEEL OR SULKY

C. M. & D. E. HALL
Cultivators.

No. 5,601.

2 Sheets—Book 1.

Fig. 1.

C. M. & D. E. HALL.
Cultivators.

No. 5,601.

2 Sheets—Book 2.

Fig. 3.

C. M. & D. E. HALL.
Cultivators.

No. 5,601.

Enlisted Oct. 14, 1873.

Witnesses:

J. T. Stiles.

A. G. S. Goff.

Inventors.

J. T. Stiles.

A. G. S. Goff.

Fig. 4.

Fig. 5.

Witnesses:

J. T. Stiles.

A. G. S. Goff.

Inventors.

J. T. Stiles.

A. G. S. Goff.

Fig. 2.
CULTIVATORS WHEEL OR SULKY.

B. TINKHAM
Improvement in Cultivators.
No. 4,600. Released Oct. 17, 1877.

Fig. 1

Tinker Tinkham
Inventor
D.R. Hinkleman, Esq.

Witnesses.

J. B. Alexander
Wheel Cultivator
Patented Jan. 5, 1867

W. T. Bruden
Wheel Cultivator
Patented Jan. 5, 1867
CULTIVATORS WHEEL OR SULKY.

ELIZA S. CONKLIN & J. STAFFORD.
Cultivators.
No. 5,827.
Received April 7, 1874.

J. M. Goff.
Cultivator.
Patented Feb. 14, 1881.
CULTIVATORS WHEEL OR SULKY.

C. Roberts
Meat Cultivator
Patented Nov 10, 1869.

A. M. Black
Meat Cultivator
Patented Nov 11, 1869.

C. M. Talbot
Meat Cultivator
Patented Nov 11, 1869.

J. L. Ellis
Meat Cultivator
Patented Nov 11, 1869.
CULTIVATORS WHEEL OR SULKY.

Frank Cox

W. Cox & Co.

M. Cox

E. H. Sauget

Patented Jan. 27, 1881

Patented Feb. 20, 1883

Patented Jan. 17, 1881

Patented Feb. 20, 1883
CULTIVATORS: WHEEL OR SULKY

[Diagram of a cultivator wheel or sulky]

W. D. Bayley
Wheel Cultivator
Patented Apr. 23, 1863

[Diagram of a cultivator wheel or sulky]

[Diagram of a cultivator wheel or sulky]

[Diagram of a cultivator wheel or sulky]
CULTIVATORS WHEEL OR SULKY

J.H. Dormer
Wheel Cultivator
Patented Sep. 1, 1903

R.D. Hartshorn
Wheel Cultivator
Patented Aug. 2, 1904

J.C. Stanns
Wheel Cultivator
Patented Aug. 2, 1904

Maxd & Stevenson
Wheel Cultivator
Patented Aug. 2, 1904
H. E. Smith
Horse Cultivator
No. 7317
Patented Feb 1, 1876

R. B. Smith
Cultivator
No. 7,317
Patented Feb 1, 1876

C. H. Schenck
Horse Cultivator
No. 2,009
Patented Feb 23, 1866

E. F. Field
Wheel Cultivator
No. 2,009
Patented Feb 23, 1866
CULTIVATORS: WHEEL OR SULKY.

T. T. Prasser & W. C. N. Goring
Wheel Cultivator
Patented Jan 3, 1865

J. Sherwood
Wheel Cultivator
Patented Jan 3, 1865

M. J. Binnie
Wheel Cultivator
Patented Jan 3, 1865

W. A. Atwood
Wheel Cultivator
Patented Jan 3, 1865
CULTIVATORS WHEEL OR SULKY.

C. F. Smith
W heel Cultivator
No. 20,088
Patented May 25, 1865.

J. Brewer
Wheel Cultivator
No. 20,075
Patented May 1, 1865.

E. M. Ehrich
Wheel Cultivator
No. 20,640
Patented July 31, 1865.

E. F. Smith
Wheel Cultivator
No. 23,612
Patented May 22, 1866.
CULTIVATORS WHEEL OR SULKY

W. H. L. Young
Wheat Cultivator
Patented Sep. 26, 1865.

F. McConnel
Wheat Cultivator
Patented Oct. 2, 1865.

J. E. Frayer
Wheat Cultivator
Patented Oct. 23, 1865.
CULTIVATORS WHEEL OR SULKY

C. L. Hutchinson
Wheel Cultivator
Patented Mar 21, 1883

B. F. Hessie
Wheel Cultivator
Patented Jan. 16, 1886

J. S. Parkins
Wheel Cultivator
Patented Jan 24, 1886
CULTIVATORS WHEEL OR SULKY

Fig. 1

Fig. 2

Fig. 3

Fig. 4
CULTIVATORS WHEEL OR SULKY.

B. F. Young

Moor Cultivator

Patented May 9, 1866

Signatures

B. F. Young

W. W. H. Miller

W. H. Park

Witnesses

Burr & Cox

Moor Cultivator

Patented May 9, 1866

Signatures

Burr & Cox

Wm. Park

Witnesses

Wm. Park

Wm. Park

Witnesses

W. M. Gummich

Moor Cultivator

Patented May 15, 1866

Signatures

W. M. Gummich

W. M. Gummich

Witnesses

Farquelle & Patterson

Moor Cultivator

Patented May 15, 1866

Signatures

Farquelle & Patterson

W. M. Gummich

Witnesses

W. M. Gummich

W. M. Gummich
A. M. Black
Wheel Cultivator

No. 55,842
Patented July 5, 1868.

C. W. Tullymore
Wheel Cultivator

No. 56,182
Patented Aug. 6, 1866.

Stratton & Edwards
Wheel Cultivator

No. 56,187
Patented July 5, 1868.
CULTIVATORS WHEEL OR SULKY.

W. W. St. John.
Wheel Cultivator.
No. 60,389.
Patented Dec. 18, 1866.

A. P. Harmon, J. H. & S. Lincoln, & T. W. Harmon
Wheel Cultivator.
No. 60,732.
Patented Jan. 1, 1867.
CULTIVATORS WHEEL OR SULKY

THEROPHILUS F. BERTRAND & PETER SAMES.

Cultivator.

No. 4,561
Released Oct. 10, 1871.

Fig. 7.

Witnesses:

[Signatures]

Inventors:

[Signatures]

J. B. & J. R. PARKS
Wheel-Cultivator

No. 61,940
Patented Jan. 6, 1867

Fig. 1.

Witnesses:

[Signatures]

Inventors:

[Signatures]

J. HINOMARI
Wheel-Cultivator

No. 48,295
Patented Jan. 16, 1861

Fig. 2.
CULTIVATORS-WHEEL OR SULKY

C. F. NORTON
Wheel-Cultivator.
No. 61,460
Patented Jan. 30, 1867.

G. W. PRICE
Wheel-Cultivator.
No. 61,566
Patented Jan. 29, 1867.

A. W. ALLISON
Wheel Cultivator.
No. 61,649.
Patented Jan. 29, 1867.

Inventor.
C. F. Norton
P. M. Cline
E. S. Stites

Inventor.
G. W. Price
E. S. Stites

Inventor.
A. W. Allison
E. S. Stites

Witnesses.
J. A. Jordan
J. A. Jordan

Witnesses.
J. A. Jordan
J. A. Jordan

Witnesses.
J. A. Jordan
J. A. Jordan
CULTIVATORS WHEEL OR SULKY.

A. H. ALLISON.
Inventor of Rural Manufacturing &
Cultivator.

No. 9,085.
Reissued Feb. 17, 1880.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

Fig. 7.

A. H. ALLISON.
Inventor of Rural Manufacturing &
Cultivator.

No. 9,085.
Reissued Feb. 17, 1880.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

Fig. 7.

Witness/
Inventor.

I. B. MARON
Wheel-Cultivator.

No. 61,874.
Patented Jan. 29, 1867.

Witness/
Inventor.

W. F. CLARKE
Wheel-Cultivator.

No. 61,866.
Patented Feb. 6, 1867.

Witness/
Inventor.
Cultivators Wheel or Sulky.

C. F. Maguire
Wheat Cultivator
Patented Mar 19, 1867

H. Howe
Wheat Cultivator
Patented Mar 19, 1867

H. Kynett
Wheat Cultivator
Patented Mar 26, 1867

W. F. Reynolds
Wheat Cultivator
Patented Apr 30, 1866

Witnesses:
J. F. Hudekine
M. J. Reynolds

Inventor:
C. F. Maguire
H. Howe
H. Kynett
W. F. Reynolds
G. W. STOCKTON
Wheel Cultivator.
Patented May 14, 1867.

No. 64,720.

W. Stockton
Inventor.

Witnesses:
H. T. Stearns
W. C. T. Pyle.

J. C. BIRD
Wheel-Cultivator.
Patented June 11, 1867.

No. 68,719

C. Stearns
Inventor.

Witnesses:
J. C. Bird
J. W. Bird.

H. BOYD
Wheel-Cultivator
Patented May 28, 1867.

No. 64,168

William C. Stearns
Inventor.

Witnesses:
W. C. Stearns
J. D. Stullidge.
CULTIVATORS WHEEL OR SULKY

B. C. T. W. & J. M. COCHRAN.

Wheel-Cultivator. Patented June 10, 1867

No. 68,675

Inventor

Patented June 18, 1867

No. 65,938

Inventor

No. 65,200

Patented June 25, 1867

Inventor

No. 65,200

Patented June 25, 1867

Inventor

No. 65,200

Patented June 25, 1867

Inventor

No. 65,200

Patented June 25, 1867

Inventor

CULTIVATORS WHEEL OR SULKY

B. C. T. W. & J. M. COCHRAN.

Wheel-Cultivator. Patented June 10, 1867

No. 68,675

Inventor

Patented June 18, 1867

No. 65,938

Inventor

No. 65,200

Patented June 25, 1867

Inventor

No. 65,200

Patented June 25, 1867

Inventor

No. 65,200

Patented June 25, 1867

Inventor

CULTIVATORS WHEEL OR SULKY

B. C. T. W. & J. M. COCHRAN.

Wheel-Cultivator. Patented June 10, 1867

No. 68,675

Inventor

Patented June 18, 1867

No. 65,938

Inventor

No. 65,200

Patented June 25, 1867

Inventor

No. 65,200

Patented June 25, 1867

Inventor

CULTIVATORS WHEEL OR SULKY

B. C. T. W. & J. M. COCHRAN.

Wheel-Cultivator. Patented June 10, 1867

No. 68,675

Inventor

Patented June 18, 1867

No. 65,938

Inventor

No. 65,200

Patented June 25, 1867

Inventor

No. 65,200

Patented June 25, 1867

Inventor

CULTIVATORS WHEEL OR SULKY

B. C. T. W. & J. M. COCHRAN.

Wheel-Cultivator. Patented June 10, 1867

No. 68,675

Inventor

Patented June 18, 1867

No. 65,938

Inventor

No. 65,200

Patented June 25, 1867

Inventor

No. 65,200

Patented June 25, 1867

Inventor

CULTIVATORS WHEEL OR SULKY

B. C. T. W. & J. M. COCHRAN.

Wheel-Cultivator. Patented June 10, 1867

No. 68,675

Inventor

Patented June 18, 1867

No. 65,938

Inventor

No. 65,200

Patented June 25, 1867

Inventor

No. 65,200

Patented June 25, 1867

Inventor
M. REDLINGER
WHEEL CULTIVATOR
No. 66,253.
Patented July 2, 1867.

Inventor.
Matthew Redlinger

Witnesses:

B. W. REMY.
GRAIN DRILL
No. 66,327.
Patented July 9, 1867.

Inventor.

Witnesses:

HASKINS & HART.
WHEEL CULTIVATOR
No. 66,421.
Patented July 9, 1867.

Inventor.

Witnesses:

J. MCBRIDE.
WHEEL CULTIVATOR
No. 66,619.
Patented July 2, 1867.

Inventor.

Witnesses:
A. CANFIELD
Wheel-Cultivator
Patented Aug. 27, 1867
Inventor: A. Canfield

Witnesses:
J. D. Holley
J. B. White

W. A. MOODY
Wheel-Cultivator
Patented Sept. 3, 1867
Inventor: W. A. Moody

Witnesses:
C. W. S. Moore
G. S. D. Wilson

J. S. & W. BENSON
Wheel-Cultivator
Patented Sept. 3, 1867
Inventor: J. S. & W. Benson

Witnesses:
S. J. Wilson
A. M. White

G. MOORE
Wheel-Cultivator
Patented Oct. 14, 1867
Inventor: G. Moore

Witnesses:
G. W. Wilson
J. B. White
CULTIVATORS WHEEL OR SULKY.

M. SWEET.
Wheel Cultivator.
Patented Sept. 10, 1867.

D. S. STAFFORD.
Wheel Cultivator.
Patented Sept. 17, 1867.

E. DAVIES, Jr.
Wheel Cultivator.
Patented Sept. 17, 1867.

J. B. MARSH
Wheel Cultivator.
Patented Sept. 17, 1867.
CULTIVATORS WHEEL OR SULKY.

J. W. CONNELLY.
Wheel-Cultivator
Patented Sept. 24, 1867
No. 69,184

J. SCRODER.
Wheel Cultivator.
Patented Sept. 24, 1867.
No. 69,255

J. SCRODER.
Cultivator.
Patented Feb. 6, 1877.
No. 7,466

J. SCRODER.
Cultivator.
Patented Feb. 6, 1877.
No. 7,497
CULTIVATORS WHEEL OR SULKY.

Joseph Widman, Cultivator.

PATENTED JAN 7 1868

S. T. Skinner.
Plow.

Patented Jan 14, 1868.

A. Bennett.
Cultivator.

Patented Jan 14, 1868.

S. C. Boyd.
Cultivator.

Patented Jan 14, 1868.
CULTIVATORS WHEEL OR SULKY

Donely & Cressler. Shovel-Plow. Patented Jan 28, 1868

C. Hefft. CULTIVATOR PATENTED JAN 28 1868

Fig. 1

Fig. 2

Fig. 3
CULTIVATORS: WHEEL OR SULKY

J. H. Smith
Wheel Cultivator
No. 80004
Patented Oct. 24, 1868

WITNESS

S. J. Reed
Wheel Cultivator
No. 800221
Patented Oct. 24, 1868

WITNESS

A. Pressey
Wheel Cultivator
No. 803202
Patented Jan. 8, 1869

WITNESS

Inventor
J. H. Smith
Patented Oct. 24, 1868

Inventor
S. J. Reed
Patented Oct. 24, 1868

Inventor
A. Pressey
Patented Jan. 8, 1869
CULTIVATORS WHEEL OR SULKY.
CULTIVATORS WHEEL OR SULKY.

A. M. Griswold,
Wheel Cultivator.

J. E. B. Heller.
Wheel Cultivator.

Inventor
A. M. Griswold.

Inventor
J. E. B. Heller.
CULTIVATORS: WHEEL OR SULKY.

J. Mcllwain
Wheel Cultivator
Patented Oct. 27, 1868

Inventor,
James Mcllwain

Witnesses,
David MacKay
D. Mcllwain

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

P. R. Fair
Wheel Cultivator
Patented Oct. 27, 1868

Inventor,
P. R. Fair

Witnesses,
J. M. Fair
A. M. L. Oten

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

CULTIVATORS WHEEL OR SULKY.

C. F. Ward

Wheel Cultivator

Patented Dec. 3, 1863

Inventor

C. F. Ward

Witnesses

J. F. H. S. and

J. H. Brinton

Wheel Cultivator

Patented Dec. 13, 1864

Inventor

J. H. Brinton

Witnesses

S. J. S. and

W. E. W.
CULTIVATORS WHEEL OR SULKY.

JOSEPH H. BRINTON.
Improvement in Cultivators.
No. 4,939.
Issued June 11, 1872.

Joseph H. Brinton
Inventor.

Witnesses.

Joseph H. Brinton
William D. Brooks

JOSEPH H. BRINTON.
Improvement in Cultivators.
No. 4,939.
Issued June 11, 1872.

Joseph H. Brinton
Inventor.

Witnesses.

Joseph H. Brinton
William D. Brooks
CULTIVATORS WHEEL OR SULKY.

Inventor:

T. J. Martin

Inventor, Burlington, Iowa

C. W. McLean

Inventor, Burlington, Iowa

Fig. 1

Inventor, Burlington, Iowa

Inventor, Burlington, Iowa

Fig. 2

Witnesses:

J. C. Yeager

Edward N. Brown

Fig. 3

Inventor, Burlington, Iowa

Inventor, Burlington, Iowa

Fig. 4

Inventor, Burlington, Iowa

Inventor, Burlington, Iowa

Fig. 5

Inventor, Burlington, Iowa

Inventor, Burlington, Iowa

Fig. 6

Inventor, Burlington, Iowa

Inventor, Burlington, Iowa

Fig. 7

Inventor, Burlington, Iowa

Inventor, Burlington, Iowa

Fig. 8

Inventor, Burlington, Iowa

Inventor, Burlington, Iowa

Fig. 9

Inventor, Burlington, Iowa

Inventor, Burlington, Iowa

Fig. 10

Inventor, Burlington, Iowa

Inventor, Burlington, Iowa

Fig. 11

Inventor, Burlington, Iowa

Inventor, Burlington, Iowa

Fig. 12

Inventor, Burlington, Iowa

Inventor, Burlington, Iowa

Fig. 13

Inventor, Burlington, Iowa

Inventor, Burlington, Iowa

Fig. 14

Inventor, Burlington, Iowa

Inventor, Burlington, Iowa

Fig. 15

Inventor, Burlington, Iowa

Inventor, Burlington, Iowa

Fig. 16

Inventor, Burlington, Iowa

Inventor, Burlington, Iowa

Fig. 17

Inventor, Burlington, Iowa

Inventor, Burlington, Iowa

Fig. 18

Inventor, Burlington, Iowa

Inventor, Burlington, Iowa

Fig. 19

Inventor, Burlington, Iowa

Inventor, Burlington, Iowa

Fig. 20

Inventor, Burlington, Iowa

Inventor, Burlington, Iowa

Fig. 21

Inventor, Burlington, Iowa

Inventor, Burlington, Iowa

Fig. 22

Inventor, Burlington, Iowa

Inventor, Burlington, Iowa
CULTIVATORS WHEEL OR SULKY.

J. Armstrong Jr.
Cultivator
Patented Apr. 13, 1869

B. Ayres
Wheel Cultivator
Patented Apr. 20, 1869
CULTIVATORS WHEEL OR SULKY.

P. Sprague
Cultivator
No. 979,801. Patented May 4, 1869.

J. M. Hiner
Cultivator

J. T. Meier
Cultivator
No. 94,203. Patented May 18, 1869.
CULTIVATORS: WHEEL OR SULKY.

J. A. S. W. Whetstone and T. Nelson,
Cultivator. Patented June 28, 1860.

W. Snodgrass
Wheel Cultivator Patented June 28, 1869.

J. Milson

D. H. Paul
CULTIVATORS: WHEEL OR SULKY

H. Carr,
Wheel Cultivator
No. 100,999. Patented Mar. 9, 1890.

Inventor
Beverly N. Haynes

H. Carr,
Wheel Cultivator
No. 100,999. Patented Mar. 9, 1890.

Inventor
Beverly N. Haynes
CULTIVATORS WHEEL OR SULKY

J. Cavo.
Wheel Cultivator.
No. 1002501. Patent Mar. 8, 1890.

J. E. Innis.
Wheel Cultivator.
No. 1002500. Patent Mar. 8, 1890.

J. B. Shimmer.
Wheel Cultivator.

C. Fink.
Wheel Cultivator.
No. 1005863. Patent Mar. 8, 1890.
CULTIVATORS WHEEL OR SULKY

S. J. Thornton.
Wheel Cultivator.
No. 100,768. Patented Aug. 28, 1877.

C. Sintz.
Wheel Cultivator.
Patented Sept. 6, 1875.

W. Gilman.
Cultivator.
No. 100,894. Patented Oct. 28, 1877.

J. T. Harris.
Wheel Cultivator.
No. 100,880. Patented Oct. 21, 1877.
CULTIVATORS WHEEL OR SULKY

J. T. TROWBRIDGE.

Improvement in Seeders and Cultivators Combined.
No. 114,232.
Patented April 26, 1871.

O. M. POND.

Improvement in Combined Plows and Markers
No. 114,472.
Patented May 7, 1871.

Gerber & Brown,
Seed Cultivator.

No. 113,631.
Patented Apr. 26, 1871.

Trowbridge & Brown.
Seed Cultivator.

No. 113,303.
Patented Apr. 26, 1871.

Inventors:

J. T. Trowbridge.

Witnesses:

J. McFadden.

J. Trowbridge.

Inventor:

O. M. Pond.

Witnesses:

W. E. Pond.

J. Trowbridge.

Inventors:

J. T. Trowbridge.
CULTIVATORS WHEEL OR SULKY.

M. B. LAMAR.

No. 118,371.

Regulating Cotton Cultivator.

Arnold Tompkins' Improved Cultivator

Inventor

Arnold Tompkins, Inventor,

by O. H. H ebcrnon, Attorney

223 Street. 2d

Washington, D.C.

No. 118,567.

A Whitehall Combined Cultivator and Planter.

Patented Aug. 22, 1871.

Patented Aug. 22, 1871.

Patented Aug. 22, 1871.

Patented Aug. 22, 1871.

Patented Aug. 22, 1871.

Patented Aug. 22, 1871.

Patented Aug. 22, 1871.
N. F. SANDELIN
Improvement in Cultivators.
No. 124,014.

JOHN E. BYERS
Improvement in Cultivators.
No. 124,329.

JOSEPH T. W. LARRABEE.
Improvement in Cultivators.
No. 124,831.

N. F. SANDELIN
Improvement in Cotton Cultivators.
No. 125,087.
N. F. Sandelin

Improvement in Cotton Cultivators

No. 125,087.

Patented March 29, 1872

J. W. Spangler

Improvement in Cultivators

No. 125,093

Patented March 29, 1872

I. H. Chappell

Improvement in Cultivators

No. 125,271.

Patented April 2, 1872

H. P. Jordan

Improvement in Sulky-Cultivator and Horse-Hoe

No. 125,561.

Patented April 12, 1872
JAMES G. STOWE
Improvement in Cultivators.
No. 127,935
Patented June 11, 1872.

G. MOORE
Improvement in Cultivators
No. 128,149
Patented July 3, 1872.

J. M. MOBLE
Improvement in Cultivators.
No. 128,653
Patented July 2, 1872.

W. P. BROWN
Improvement in Cultivators.
No. 128,701
Patented July 9, 1872.
CULTIVATORS. WHEEL OR SULKY.

W. P. BROWN
Improvement in Cultivators
No. 128,701.
Patented July 2, 1872.

D. NORMAN
Improvement in Cultivators
No. 129,420.
Patented July 16, 1872.

W. W. MARSH & H. McINTYRE
Wheel-Cultivator
No. 128,964.
Patented July 16, 1872.

A. THOMPSON.
Improvement in Cultivators
No. 129,693.
Patented July 23, 1872.
CULTIVATORS WHEEL OR SULKY.

N. STOLL

Improvement in Cultivators.
No. 130,393.
Patented Aug. 13, 1872.

W. H. CUMMINGS

Improvement in Cultivators.
No. 130,706.
Patented Aug. 29, 1872.

L. K. TIPTON

Improvement in Cultivators.
No. 130,434.
Patented Aug. 13, 1872.

W. H. ROBINSON

Improvement in Cultivators.
No. 130,869.
Patented Aug. 27, 1872.
H. H. GIBSON
Improvement in Cultivators.
No. 132,277.
Patented Oct. 15, 1872.

R. ELWOOD & R. L. PITCHER
Improvement in Cultivators.
No. 132,527.
Patented Oct. 28, 1872.

S. MARTIN
Improvement in Combined Seeders and Cultivators.
No. 132,845.
Patented Nov. 5, 1872.
CULTIVATORS WHEEL OR SULKY.

S. MARTIN
Improvement in Combined Sowers and Cultivators
No. 132,845
Patented Nov. 9, 1872.

J. G. STOWE
Improvement in Cultivators.
No. 133,067
Patented Nov. 17, 1872.

R. C. BUCKLEY
Cultivators.
No. 134,246
Patented Dec. 24, 1872.

J. SHERRILL
Cultivators.
No. 134,615
Patented Jan. 7, 1873.
CULTIVATORS WHEEL OR SULKY.

S. RUFFNER.
Cultivators.
No. 154,915.
Patented Sept. 6, 1874.

E. N. & I. L. KISeLL.
Wheel Cultivators.
No. 155,159.
Patented Sept. 22, 1874.

A. CANFIELD.
Corn Cultivators.
No. 155,419.
Patented Sept. 22, 1874.
CULTIVATORS-WHEEL OR SULKY.

M. L. GORMAN
Cultivator.
No. 159,507
Patented Feb. 9, 1875

G. S. G. W. & E. A. BROWER
Wheel-Cultivator.
No. 159,560
Patented Feb. 9, 1875

WITNESSES:

INVENTOR:

G. S. G. W. & E. A. BROWER
Wheel-Cultivator.
No. 159,560
Patented Feb. 9, 1875

E. E. LEACH
Wheel-Cultivator.
No. 159,689
Patented Feb. 9, 1875

WITNESSES:

INVENTOR:
CULTIVATORS WHEEL OR SULKY

F. P. BEGGER.
CULTIVATOR.
Patented Oct. 19, 1872.
No. 102,302.

L. H. BEGGER.
WHEEL-CULTIVATOR.
Patented Oct. 19, 1872.
No. 102,304.

J. W. COLE.
COMBINED CULTIVATOR AND SULKY-PLow.
Patented Oct. 17, 1872.
No. 103,251.

C. A. BENTLEY.
CULTIVATOR.
Patented Oct. 17, 1872.
No. 103,260.
CULTIVATORS WHEEL OR SULKY.

W. METTLER.
Wheel-Cultivator.
No. 196,810. Patented Nov. 6, 1877.

M. L. UTTER.
Cultivator.
No. 197,503. Patented Nov. 27, 1877.

I. MACY & J. C. WATKINS.
Wheel Cultivator.
No. 197,036. Patented Nov. 13, 1877.

M. L. UTTER.
Cultivator.
No. 197,503. Patented Nov. 27, 1877.
CULTIVATORS WHEEL OR SULKY.

L. ANTOINE.
Cultivator.
No. 199,680.
Patented Jan. 29, 1878.

M. G. GRAHAM.
Cultivator.
No. 199,701.
Patented Jan. 29, 1878.

M. G. GRAHAM.
Cultivator.
No. 199,701.
Patented Jan. 29, 1878.

D. R. RAYMOND.
Cultivator.
No. 200,089.
Patented Feb. 5, 1878.
CULTIVATORS WHEEL OR SULKY.

W. T. ADDISON.
Cultivator.
No. 210,073.
Patented Nov. 19, 1878.

W. A. KNOWLTON & A. BUTLEDGE.
Cultivator.
No. 210,861.
Patented Dec. 17, 1878.

W. A. KNOWLTON & A. BUTLEDGE.
Cultivator.
No. 210,992.
Patented Dec. 17, 1878.

A. CANFIELD.
Cultivator.
No. 210,992.
Patented Dec. 17, 1878.
CULTIVATORS WHEEL OR SULKY.

P. S. RUSELLE.
Cultivator.
No. 211,792. Patented Jan. 28, 1879.

C. C. CLOVER
Sulky-Plow.

C. C. CLOVER
Sulky-Plow.

C. C. CLOVER
Sulky-Plow.

T. M. PLENNIESEN & A. HAKL
Cultivators.
CULTIVATORS WHEEL OR SULKY.


G. MOORE
Cultivator

No. 217,914. Patented July 29, 1879.

J. WAGNER, JR.
Wheel-Cultivator.

No. 218,274. Patented Aug. 5, 1879.

J. H. JOHNSON.
Cultivator.
CULTIVATORS WHEEL OR SULKY.

I. Utter.
Cultivator.
No. 219,326.
Patented Sept. 2, 1879.

A. B. Travis.
Cultivator.
No. 219,882.
Patented Sept. 23, 1879.

W. P. Brown.
Cultivator.
No. 220,463.
CULIVATORS WHEEL OR SULKY.

H. BLOEDEL.
Cultivator.
No. 222,446. Patented Dec. 9, 1879.

D. UNTHANK.
Cultivator.
No. 222,550. Patented Dec. 9, 1879.

D. UNTHANK.
Sower or seeder to P. C. Davis
Cultivator.
No. 9,607. Reissued March 15, 1881.

W. COPPAGE.
Flow.
No. 222,570. Patented Dec. 16, 1879.
CULTIVATORS WHEEL OR SULKY.

J. FORBES.

Cultivator.


Inventor.

James Forbes.

WITNESSES:

P. D. Forbes.

Fig. 1.

J. FORBES.

Cultivator and Horse Hoe.

No. 9,530. Reissued Jan. 11, 1891.

Inventor.

J. M. Johnston.

WITNESSES:

A. N. Johnston.

Fig. 1.

A STAUFFACHER

Cultivator.

No. 225,304. Patented Mar. 9, 1880.

Inventor.

B. M. Johnston.

WITNESSES:

P. H. B. K. Johnston.

Fig. 1.

D. M. JOHNSTON.

Cultivator.

No. 226,321. Patented April 6, 1880.

Inventor.

B. M. Johnston.

WITNESSES:

P. H. B. K. Johnston.

Fig. 1.
CULTIVATORS: WHEEL OR SULKY.

W. FENDLEY & A. MOSS.
Wheel Plow and Cultivator
No. 226,674. Patented April 20, 1880.

B. C. BRADLEY.
Cultivator.
No. 226,833. Patented April 27, 1880.

B. C. BRADLEY.
Cultivator.
No. 227,383. Patented May 12, 1880.

J. H. PEIRCE.
Cultivator.
No. 227,383. Patented May 12, 1880.
CULTIVATORS-WHEEL OR SULKY.

W. PEDLEY & A. MOSS.
Wheel Cultivator.
No. 235,452.
Patented Dec. 14, 1880.

J. VAN BUREN.
Wheel Cultivator.
Patented Dec. 14, 1880.

J. T. McANORTON.
Plow Carriage.
No. 235,692.
PLOW COUPLINGS.

W. S. Weir, Jr.
Wheel Cultivator
Patented Mar. 11, 1866

J. W. Boosinger.
Wheel Cultivator
Patented Sept. 3, 1866

S. M. Whitney.
Wheel Cultivator
Patented Nov. 11, 1866
PLow COUPLINGS.

W. E. SMITH.
Wheel Cultivator.

No. 67,078.
Patented July 23, 1867.

J. M'PINT.
Wheel-Cultivator.

No. 69,697.
Patented Oct. 8, 1867.

Witnesses.
Theodore
W. Vimeo

Inventor.
W. E. Smith
Paris, Ill.

Inventor.
J. M'Pint
Peoria, Ill.

W. H. ROWEN.
Wheel Cultivator.

No. 78,082.
Patented Oct. 16, 1867.

Inventor.
W. H. Rowen
Chicago, Ill.

J. A. Rowen.
Wheel Cultivator.

No. 84,392.
Patented Oct. 29, 1867.

Inventor.
J. A. Rowen
Chicago, Ill.
PLow COUPLINGS.

Flavius J. Underwood.

Improvement in Cultivators.

No. 957,412.

No. 4,665.

Formed Dec. 27, 1871.

J. B. Tipton.

Cultivator.

No. 87,060.

Patented Feb. 16, 1869.

N. & J. Carr, Jr.

Cultivator.

No. 83,690.

Patented Jan. 6, 1869.

Inventor.

P. J. Underwood.

Inventor.

J. B. Underwood.

Inventor.

Witnesses.

J. H. Newby.

L. Sharp.

Witnesses.

T. H. Laws.

J. W. Ross.

Witnesses.

J. B. Underwood.

Inventor.

J. B. Underwood.

Inventor.

Witnesses.

J. B. Ross.

James O. Carr.

Witnesses.

J. B. Ross.

James O. Carr.
D. C. Stow

Cultivator

No. 57,124.

Patented Mar. 9, 1869.

Fig. 1.

Fig. 2.

W. A. Bryan

Cultivator Joint

No. 57,127.

Patented Mar. 9, 1869.

Fig. 3

Fig. 4

Fig. 5

J. Lueth

Wheel Cultivator

No. 94,197

Patented Sept. 7, 1869.

Inventors

J. A. Bryan

By his signature

J ohn Lueth

Inventor

W. G. Fields

By his signature

J. H. Richardson

Inventor

W. G. Fields

By his signature

J. H. Richardson

Inventor
PLOW COUPLINGS

SAMUEL CROSSLEY.

Improvement in Cultivators.

No. 124,724. Patented March 18, 1872.

GEORGE FAWCETT.

Improvement in Cultivators.

No. 126,276. Patented April 30, 1872.

SAMUEL ROCKAFELLOW.

Improvement in Wheel-Cultivators.

No. 126,302. Patented April 23, 1872.
PLow COuPLINGS.

G. W. Van Sickle & C. McCorNaughy.
Cultivators.

Patented July 31, 1874.

A. Smith.
Plows.

Patented Nov. 24, 1874.

C. Kinsey.
Cultivators.

Patented Aug. 19, 1874.

A. McCorNaughy.
Cultivators.

Patented Sept. 26, 1874.

S. F. Cooks.
Wheel-Cultivator.

Patented Dec. 20, 1874.
H. J. POTTER.
Plow Attachment for Cultivators.
No. 234,060. Patented Nov. 2, 1880.

INVENTOR:
H. J. Potter
ATTORNEYS.
W. F. BROWN
Flow and Cultivator Coupling.
No. 216,145  Patented June 2, 1879.

F. B. MANLY
Wheel Cultivator
No. 238,943  Patented March 15, 1881.

F. B. MANLY
Wheel Cultivator
No. 238,944  Patented March 15, 1881.

G. W. VAN SICKLE & C. McCOLLUHNY.
Cultivator.
No. 238,994  Patented March 15, 1881.
FLOW COUPLINGS.

J. B. PARADIS.
Cultivator Coupling.
Patented March 22, 1881.

No. 239,268.

WITNESSES

INVENTOR

C. A. HAGUE.
Cultivator Coupling.
Patented June 21, 1881.

No. 240,377.

WITNESSES

INVENTOR

C. A. HAGUE.
Cultivator Coupling.
Patented June 21, 1881.

No. 243,122.
PLOWS-WHEEL OR SULKY.

C. R. Enanderhoff
Wheel Plow
Patented Jan. 40, 1853.

P. F. Hollen
Gang Plow
Patented Oct. 26, 1853.

I. J. Hall
Gang Plow
Patented May 18, 1853.

I. J. Hall
Gang Plow
Patented Nov. 7, 1849.
I. P. Mackallie.
Wheel Plow.
Patented June 11, 1850.

H. H. Robertson.
Wheel Plow.
Patented May 5, 1860.

H. H. Robertson.
Wheel Plow.
Patented May 5, 1860.

T. S. Hemingway.
Wheel Plow.
Patented December 17, 1867.
PLOWS-WHEEL OR SULKY.

H. N. Baker.

O. Sparks.

J. Hagee.

A. & J. Seibert.

Witnisses:

J. A. Hagen.

J. A. Hagen.

Witnisses:

J. A. Hagen.
W. F. Burton.

Mud Plow

No. 3,960
Patented Oct. 5, 1869
33,858

Fig. 1

Fig. 2

Witnesses
McIntosh
C. Walker

Inventor
W. F. Burton

By W. C. Martin

M. B. Ready.

Gang Plow

No. 20,091
Patented Dec. 5, 1882

Fig. 1

Fig. 2

Witnesses
McIntosh
C. Walker

Inventor
W. B. Ready

By J. H. Allman

N. F. Burton.

Gang Plow

No. 3,997
Patented Feb. 10, 1868

Fig. 1

Fig. 2

Witnesses
McIntosh
C. Walker

Inventor
N. F. Burton

By W. C. Martin

N. F. Burton.

Gang Plow

No. 2,221
Patented Feb. 10, 1868

Fig. 1

Fig. 2

Witnesses
McIntosh
C. Walker

Inventor
N. F. Burton

By W. C. Martin

PLOWS-WHEEL OR SULKY.
PLOWS - WHEEL OR SULKY.

J. PRATT.
W heel Plow.
No. 16,820. Patented Dec. 20, 1864.

T. SHILL.
Cang Plow.
No. 16,897. Patented Jan. 10, 1865.

W. H. Freeman.
Wheel Plow.
No. 16,988. Patented Feb. 24, 1865.

J. C. Ffitt.
Wheel Plow.
No. 4,197. Patented Jan. 15, 1866.

Witnesses:
Charles Smith
William Wright.

Inventor
James Smith
By James S. C.

Witnesses:
J. T. Young
William Young.

Fig. 1.

Fig. 1.
H. Webster, Wheel Plow
No. 65762, Patented Jan 31, 1863

F. Wilson, Wheel Plow
No. 66440, Patented Feb 18, 1863

Dunm't Buckley, Wheel Plow
No. 66, 1863, Patented Feb 24, 1863

L. Hollaman, Gang Plow
No. 46, 903, Patented Mar 21, 1865

Inventor
H. Webster

Inventor
F. Wilson

Inventor
Dunm't Buckley

Inventor
L. Hollaman
M. SATTLEY.
Gang Plow.
Patented Dec. 5, 1845.

C. Eulienen.
Gang Plow.
Patented Dec. 2, 1866.
PLOWS-WHEEL OR SULKY.

H. C. Smith
Wheel Plow
No. 68,675
Inventor
W. B. Smith
Filed Mar. 2, 1886

T. Majk
Sulky Plow
No. 68,104
Inventor
W. F. Majk
Filed Jan. 10, 1886

A. P. Dunant
Gang Plow
No. 62,401
Inventor
Ed. D. A. Dunant
Filed Feb. 5, 1886

R. F. Caskill
Wheel Plow
No. 63,559
Inventor
John R. Caskill
Filed Feb. 18, 1886
N. Batchell.
Chang Plow
Patented Aug. 7, 1866

S. Hutchinson.
Wheel Plow
Patented Aug. 7, 1866

A. H. Burroughs.
Gang Plow
Patented Aug. 14, 1866

D. Jacoby.
Meal Plow
Patented Aug. 14, 1866
PLOWS—WHEEL OR SULKY.

Thomas, Sheets & Miller
Cryp Plow
Patented Sept 4, 1868

O. P. Dill
Wheel Plow
Patented Sept. 1892

R. H. Castell
Wheel Plow
Patented Sept 11, 1869

J. Stout
Wheel Plow
Patented Sept 11, 1869
J.H. Barringer
Cultivator & Sulky Plow.
No. 61,039.
Patented Jan. 8, 1867.

Inventor

Witnesses

J. H. Barringer
Per
Alphonce

J. H. Barringer
Cultivator & Sulky Plow.
No. 61,039.
Patented Jan. 8, 1867.

Inventor

Witnesses

J. H. Barringer
Per
Alphonce

J. H. Barringer
Cultivator & Sulky Plow.
No. 61,039.
Patented Jan. 8, 1867.

Inventor

Witnesses

J. H. Barringer
Per
Alphonce

J. H. Barringer
Cultivator & Sulky Plow.
No. 61,039.
Patented Jan. 8, 1867.

Inventor

Witnesses

J. H. Barringer
Per
Alphonce
D. C. RIGGS
Gang Plow
Patented July 30, 1867.
No. 67,354.

R. BAXTER
Gang Plow
Patented Aug. 8, 1867.
No. 67,483.

A. Y. COVELL
Gang Plow
Patented Aug. 8, 1867.
No. 67,501.

Inventors:
D. C. Riggs
Attorney

Inventor:
R. Baxter

Inventor:
A. Y. Covell

Witnesses:
J. F. Fitchings
S. C. Bower

Witnesses:
J. S. Fitchings
J. K. Covell

Witnesses:
J. S. Fitchings
Robert King
PLOWS—WHEEL OR SULKY.

J. D. Hincand.
Wheel Plow.
Patented Aug. 27, 1867.

S. I. & G. M. Gillham.
Wheel Plow.
Patented Aug. 27, 1867.

G. C. Avery.
Gary Plow.
Patented Aug. 27, 1867.
H. J. Wattles.
Wheel Plow.
Patented Sept. 10, 1867.

L. Domino.
Wheel Plow
Patented Sept. 10, 1867.

J. Minnise.
Wheel Plow
Patented Sept. 10, 1867.

M. S. Curtis.
Wheel Plow
Patented Oct. 1, 1862.
PLOWS-WHEEL OR SULKY.

A. Q. Allis' PATENTED
74268
Impd. SULKY Plough.

W. W. Mathews
Gang-Plow.
74338
Patented Feb. 11, 1868

Elias Levee, Sulky Plow.
74554
Patented Feb. 18, 1868
L. Hunt,
Mold Board
No. 71917.  Filed May 3, 1888

C. W. N. Newell
Mold Board
No. 79880.  Filed May 20, 1888

Inventor.

Inventor.

Inventor.
PLOWS: WHEEL OR SULKY.

B. SLUSser.

Sulky-Plow.

No. 6,563.

Reissued July 27, 1875.

Inventor.

Benjamin Slusser.

Sulky-Plow.

No. 1,973.

Reissued Nov. 27, 1877.
PLOWS: WHEEL OR SULKY.

A. Vail.
Wheeled Plow
Patented July 15, 1861

P. H. Standish
Gang Plow
Patented Sept. 1, 1860

W. T. Smith & G. M. Mason
Wheeled Plow
Patented Aug. 14, 1860

Inventor:
Andrew Vail

Inventor:
P. H. Standish

Witnesses:
W. T. Smith
G. M. Mason

Witnesses:
J. S. Sandford
G. M. Mason

Witnesses:
W. T. Smith
G. M. Mason

Witnesses:
J. S. Sandford
G. M. Mason

Inventor:
A. Vail

Inventor:
P. H. Standish
PLOWS-WHEEL OR SULKY.

Stanley & Zunen

Mud Plow

Inventor:

M. Zunen

No. 761.

Patented May 1, 1869.

Lewis & Utall

Wheel Plow

Inventor:

Lewis & Utall

No. 81,799.

Patented May 1, 1869.

J. F. Henry

Gang Plow

Inventor:

J. F. Henry

No. 724.

Patented May 1, 1869.

Lewis & Utall

Slip Plow

Inventor:

Lewis & Utall

No. 33,365.

Patented Mar. 22, 1869.
F. P. Smith

Wheel Plow

No. 82,140. Patented Sept. 16, 1863.

Fig. 1

Fig. 2

Fig. 3

Inventor

F. P. Smith

Witneses

S. O. Smith

F. P. Smith

Wheel Plow

No. 82,146. Patented Sept. 16, 1863.

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Inventor

F. P. Smith

Witneses

S. O. Smith

C. L. Horn, Jr. & I. Maney

Wheel Plow

No. 84,483. Patented Sept. 16, 1863.
I. W. Lewis

Gang Plow
Patented Jan 22, 1869.

J. Sheppard

Wheel Plow
Patented Jan 29, 1869.

L. Chapman

Gang Plow
Patented Jan 29, 1869.

L. Chapman

Gang Plow
Patented Jan 29, 1869.
FLOWS WHEEL OR SULKY
PLOWS-WHEEL OR SULKY

A. Cunningham

Wheel Plow
No. 98,535
Patented Jan. 4, 1872

Inventor
James Moore
Patent No.

J. S. Coit

Wheel Plow
No. 95,538
Patented Feb. 8, 1872

Inventor
James S. Coit
Patent No.

A. P. Dunn

Cang Plow
No. 98,383
Patented Mar. 15, 1872

Inventor
Aaron P. Dunn
Patent No.
FLOWS-WHEEL OR SULKY

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Wm. H. Jones, Inventor.

Patented Oct. 6, 1863.

No. 107,220.

H. W. Morley, Inventor.

Patented Oct. 6, 1863.

No. 107,229.

J. H. Tyler, Inventor.

Patented Oct. 6, 1863.

No. 107,228.
W. Mauin,
Wheel Plow
No. 104,796.  patented Oct. 25, 1870

J. N. Potter,
Wheel Plow
No. 104,796.  patented Nov. 8, 1870.

W. Mann.
Comb Plow
No. 100,003.  patented Nov. 8, 1870.

J. E. Snowman,
Wheel Plow
No. 100,003B.  patented Nov. 8, 1870.
PLOWS-WHEEL OR SULKY.

Inventor

J. P. F.

Fig. 1

No. 108,250

Patented Dec. 20, 1870

Inventor

E. W. McLaughlin

J. P. F.

Fig. 2

No. 108,401

Patented Dec. 20, 1870

Inventor

A. Underwood

E. L. Davis

J. P. F.

Fig. 3

No. 108,250

Patented Dec. 20, 1870

Inventor

R. W. McLaughlin

J. P. F.
J. H. Glass.

Plow.

Inventor: J. H. Glass.

Witnesses:

117704

S. A. Mather

Adjustable Plow.

Inventor: S. A. Mather.

Witnesses:

117711

1. Fig.

2. Fig.

3. Fig.
PLOWS-WHEEL OR SULKY.

R. Curth’s Gang Plows
No. 118,694. Patented Sep. 5, 1871.

William J. Connors Gang Plow
No. 118,702. Patented Sep. 12, 1871.

H. B. Smith’s Gang Plow
No. 119,404. Patented Sep. 26, 1871.

W. H. Mills’ Combined Scraper and Cultivator
ANDREW FREEMAN.
Improvement in Gang Plows.
Patented April 3, 1872.
No. 125,280.

A. J. BORLAND.
Improvement in Wheel-Plows.
Patented April 30, 1872.
No. 126,255.

JOSEPH COCHRANE.
Improvement in Wheel-Plows.
Patented May 7, 1872.
No. 126,447.
JOSEPH COCHRANE.
Improvement in Wheel-Plows. Patented May 7, 1872.
No. 126,447.

W. C. McCUL.
No. 126,976.

DAVID A. MANUEL.
Improvement in Gang-Plow. Patented June 4, 1872.
No. 127,495.

JOHN WORRELL & JAMES H. RYNERSON
Improvement in Sulky-Attachments to Plows. Patented June 4, 1872.
No. 127,539.
A. MERRILL.
Improvement in Cultivators
No. 127,785.
Patented June 11, 1872.

WILLIAM HASLUP.
Improvement in Plows
No. 127,878.
Patented June 11, 1872.

WILLIAM PARRISH.
Improvement in Gang-Plow
No. 128,745.
Patented June 25, 1872.

M. W. HARRIS.
Improvement in Plows
No. 128,482.
Patented July 2, 1872.
PLOWS-WHEEL OR SULKY.

J. & G. ARMSTRONG
Improvement in Gang-Plows.
No. 130,177
Patented Aug. 1, 1872.

R. WALKER
Improvement in Plows.
No. 130,256
Patented Aug. 1, 1872.

W. MASON
Improvement in Wheel-Plows.
No. 131,063
Patented Sep. 3, 1872.

A. W. HOYT
Gang-Plow.
No. 131,218
Patented Sep. 10, 1872.

INVENTORS:
W. Mason
K. C. B. Brown

INVENTOR:
J. & G. Armstrong

WITNESSES:

WITNESSES:

INVENTOR:
R. Walker

INVENTOR:
A. W. Hoyt

INVENTOR:
J. & G. Armstrong

INVENTOR:
W. Mason

INVENTOR:
R. Walker

INVENTOR:
A. W. Hoyt

INVENTOR:
J. & G. Armstrong

INVENTOR:
W. Mason

INVENTOR:
R. Walker

INVENTOR:
A. W. Hoyt

INVENTOR:
J. & G. Armstrong

INVENTOR:
W. Mason

INVENTOR:
R. Walker

INVENTOR:
A. W. Hoyt

INVENTOR:
J. & G. Armstrong

INVENTOR:
W. Mason

INVENTOR:
R. Walker

INVENTOR:
A. W. Hoyt

INVENTOR:
J. & G. Armstrong

INVENTOR:
W. Mason

INVENTOR:
R. Walker

INVENTOR:
A. W. Hoyt

INVENTOR:
J. & G. Armstrong

INVENTOR:
W. Mason

INVENTOR:
R. Walker

INVENTOR:
A. W. Hoyt

INVENTOR:
J. & G. Armstrong

INVENTOR:
W. Mason

INVENTOR:
R. Walker

INVENTOR:
A. W. Hoyt

INVENTOR:
J. & G. Armstrong

INVENTOR:
W. Mason

INVENTOR:
R. Walker

INVENTOR:
A. W. Hoyt

INVENTOR:
J. & G. Armstrong

INVENTOR:
W. Mason

INVENTOR:
R. Walker

INVENTOR:
A. W. Hoyt

INVENTOR:
J. & G. Armstrong

INVENTOR:
W. Mason

INVENTOR:
R. Walker

INVENTOR:
A. W. Hoyt

INVENTOR:
J. & G. Armstrong

INVENTOR:
W. Mason

INVENTOR:
R. Walker

INVENTOR:
A. W. Hoyt

INVENTOR:
J. & G. Armstrong

INVENTOR:
W. Mason

INVENTOR:
R. Walker

INVENTOR:
A. W. Hoyt

INVENTOR:
J. & G. Armstrong

INVENTOR:
W. Mason

INVENTOR:
R. Walker

INVENTOR:
A. W. Hoyt

INVENTOR:
J. & G. Armstrong

INVENTOR:
W. Mason

INVENTOR:
R. Walker

INVENTOR:
A. W. Hoyt

INVENTOR:
J. & G. Armstrong

INVENTOR:
W. Mason

INVENTOR:
R. Walker

INVENTOR:
A. W. Hoyt

INVENTOR:
J. & G. Armstrong

INVENTOR:
W. Mason
W. C. McCool.
Improvement in Plows.
No. 131,961.
Patented Oct. 6, 1872.

C. N. Owen
Improvement in Sulky Plows.
No. 132,772.
Patented Nov. 5, 1872.

J. Lane.
Improvement in Gang-Plows.
No. 132,842.
Patented Nov. 5, 1872.

C. Kewin
Improvement in Gang-Plows.
No. 132,910.
Patented Nov. 12, 1872.
W S GRIMSHAW
Wheel Plows
No. 135,800
Patented Feb. 11, 1873.

Fig. 1.

Fig. 2.

Witnesses:
M. A. B. C.
N. C. G.

Inventor:
William S. Grimshaw.

Fig. 3.

W. GUCH
Sulky Plows
No. 136,003
Patented Feb. 18, 1873.

Fig. 1.

Fig. 2.

Witnesses:
N. E. C. F. G.

Inventor:
William S. Grimshaw.

Fig. 3.

A HUMPHREY
Gang Plows
No. 136,062
Patented Feb. 18, 1873.

Fig. 1.

Fig. 2.

Witnesses:
A. H. H. G.

Inventor:
A. H. Humphrey.

Fig. 3.

L. SACHSE
Wag Plows
No. 136,674
Patented March 15, 1873.

Fig. 1.

Fig. 2.

Witnesses:
L. S. W. G.

Inventor:
L. Sachse.
I. WORRELL
Wheel-Plows.
No. 137,044
Inventor.
John R. W. Tutor & T. Tucker
WITNESSES

J. H. JAMES, H. TUCKER & T. D. TERRY
Wheel-Plows.
No. 137,011
Inventor.
J. H. James, H. Tucker & T. D. Terry
WITNESSES

G. W. MANUEL
Gang-Plows.
No. 137,691
Inventor.
G. W. Manuel
WITNESSES

S. L. STOCKSTILL & H. D. KUTZ
Plows.
No. 137,870
Inventor.
S. L. Stockstill & H. D. Kutz
WITNESSES

Plows-Wheel or Sulky.
PLOWS-WHEEL OR SULKY.

S. HEFF.
Wheel-Plows.

Patented Feb. 3, 1874.

R. NEWTON.
Sulky-Plows.

Patented Feb. 3, 1874.

J. B. GREEN.
Wheel-Plows.

Patented Feb. 10, 1874.

E. E. BAIRD
Sulky-Plows.

Patented Mar. 18, 1874.
G. S. Albertson.

Breaking Plows.

No. 148,398

Patented March 10, 1874.

C. H. Walker.

G. C. Naught.

Wheel Plows.

No. 148,448

Patented March 10, 1874.

G. W. Van Buren.

Sulky Plows and Harrows.

No. 148,585

Patented March 17, 1874.

G. W. Van Buren.

Sulky Plows and Harrows.

No. 148,585

Patented March 17, 1874.

Witnesses.

A. W. Hermit.

C. H. Gage.

Inventor.

A. W. Hermit.

C. H. Gage.

Inventor.

A. W. Hermit.

C. H. Gage.

Inventor.

A. W. Hermit.

C. H. Gage.
PLOWS—WHEEL OR SULKY

Gang-Plows.

No. 151,426

G. J. OVERTIMER

Patented May 26, 1874.

No. 151,649

E. A. BEERS.

Gang-Plows.

Patented June 2, 1874.

Fig. 1

Witnesses:

Capt. C. A. Ward

George J. Comfort

Inventor

E. A. BEERS.

Gang-Plows.

No. 151,649

Patented June 2, 1874.

Inventor

E. A. BEERS.

Gang-Plows.

No. 151,649

Patented June 2, 1874.

Witnesses:

Jos. H. Nelleson

John N. Young

Inventor
C. B. STEVENS.
Wheel-Plows.
No. 154,994.
P. M. Sept. 15, 1874.

D. B. PEUGH.
Carriages for Plows.
No. 155,040.
P. M. Sept. 15, 1874.

J. & G. ARMSTRONG.
Gang-Plows.
No. 155,134.
P. M. Sept. 22, 1874.
PLOWS-WHEEL OR SULKY.

Inventor:
N. BUNGARNER.

Witnesses:
G. B. Gates
A. Lacey

Inventor:
H. BUNGARNER.

Witnesses:
G. B. Gates
A. Lacey

Inventor:
T. E. G. BRINLY.

Witnesses:
G. B. Gates
A. Lacey
R. M. HOWES, W. A. CORR & J. B. WEBSTER.
Gang-Plows.
No. 155,871.

Patented Oct 13, 1874.

W. J. BROWN, J. G. HAYZLETT & H. F. SEATON.
Gang-Plows.
No. 156,128.

Patented Oct 26, 1874.

C. T. ELLISTON.
Plows.
No. 156,554

Patented Nov 3, 1874.

J. B. HERMAN.
Wheel-Plows.
No. 156,924.

Patented Nov 17, 1874.
E. J. Sprague
Gang-Plow
Patented April 27, 1875
No 162,709

O. Osborn
Sulky-Plow
Patented May 8, 1875
No 162,942

R. Coreth
Plow-Carriage
Patented May 16, 1875
No 163,404

R. Coreth
Plow-Carriage
Patented May 16, 1875
No 163,454
PLOWS-WHEEL OR SULKY.

W. W. FOLLEY.
SANO-FLOW
No. 176,840
Patented April 10, 1876.

M. CAHILL & A. F. MOREY.
SULKY-FLOW
No. 176,525
Patented April 25, 1876.

W. J. CASADAY.
SULKY-FLOW
No. 175,830
Patented May 2, 1876.

W. J. CASADAY.
SULKY-FLOW
No. 175,429
Patented May 2, 1876.

Witnesses:
Joseph Duhamel
Thomas Byrne

Inventor
W. L. Casaday

Attorney

Inventor
W. L. Casaday

Attorney
PLOWS—WHEEL OR SULKY

J. WARWICK
SOIL—PLOW
No. 177,975
Patented May 30, 1876.

W. HENRY
SOIL—PLOW
No. 178,923
Patented June 12, 1876.

W. HENRY
SOIL—PLOW
No. 178,924
Patented June 12, 1876.

J. B. RALSTON
SOIL—PLOW
No. 178,958
Patented June 12, 1876.
PLOWS-WHEEL OR SULKY.

W. EVANS.
WHEEL FLOW
Patented July 9, 1876.

L. B. BOWMAN.
SULKY-FLOW
Patented July 11, 1876.

W. HIREPATRICK.
SAND-FLOW
Patented July 25, 1876.

W. S. & E. W. CURTIS.
SAND-FLYOW
Patented Aug. 1, 1876.
PLOWS-WHEEL OR SULKY

D. M. TUNE. GANG-FLOWS
No 155,492. Patented Sept. 28, 1877.

No 195,977. Patented Oct. 9, 1877.

C. MOWEEY. Gang-Flow.
No. 197,159. Patented Nov. 13, 1877.

C. MOWEEY. Gang-Flow.
No. 197,160. Patented Nov. 13, 1877.
PLOWS-WHEEL OR SULKY.

J. KENNEDY.
Riding Plow.
No. 197,380. Patented Nov. 20, 1877.

H. FULLER & T. L. BOYD.
Sulky-Plows.
No. 198,000. Patented Dec. 11, 1877.

J. HAMAKER.
Sulky-Plow.
No. 198,017. Patented Dec. 11, 1877.

J. BAILEY & O. MARSHALL.
Riding Attachment for Plows.
No. 198,069. Patented Dec. 11, 1877.
B. C. BRADLEY & C. A. HAGUE
Sulky-Plow.
No. 200,249.  Patented Feb. 12, 1878.

B. C. BUCKLEY
Sulky-Plow.

N. ELMER
Sulky-Plow.

N. ELMER
Sulky-Plow.
H. L. HEWITT
Sulky Plow
No. 201,670 Patented March 26, 1878.

J. M. McFEE
Harrow Attachment for Plows.
No. 201,694. Patented March 26, 1878

J. E. FISHER
Sulky Plow.
No. 201,765. Patented March 26, 1878.
A W TUCKER
Sulky Plow
No. 202,304. Patented April 9, 1878.

J. F. GLIDDEN & P. W. VAUGHAN.
Sulky Plow

W. H. WHITTLESEY & U. T. NOBLE.
Wheel Plow
No. 202,615. Patented April 16, 1878.
J. B. FISHER
Sulky-Plow
No. 203,903. Patented May 21, 1878

W. C. ROGERS
Sulky-Plow
No. 204,091. Patented May 21, 1878.
F. M. FOSTER.
Sulky-Plow.
No. 204,890. Patented June 18, 1876

G. W. WRIGHT
Sulky-Plow.
No. 205,025. Patented June 18, 1878

L. B. KEHERY,
Pole for Agricultural Implements.
No. 205,397. Patented June 25, 1878

C. F. SNOW,
Plow.
No. 205,509. Patented July 2, 1878
R. S. RIGGINS.
Riding-Plow
No. 206,732
Patented Aug. 6, 1876

J. C. WELSH.
Sulky-Plow
No. 206,989
Patented Aug. 13, 1878

J. B. FISHER.
Sulky-Plow
No. 207,598
Patented Sept. 3, 1878

D. O. FOSGATE.
Sulky-Plow
No. 207,650
Patented Sept. 3, 1878
FLOWS WHEEL OR SULKY.

W. W. MARSE
Sulky-Plow
No. 210,867
Patented Dec. 17, 1878.

R. H. CANADAY
Plow
No. 210,992
Patented Dec. 17, 1878.
J. & A. T. WARWICK.
Flow-Sulky.
No. 213,717.
Patented Mar. 25, 1879.

L. M. KELLY.
Gang-Flow.
No. 213,906.
Patented April 1, 1879.

T. E. JEFFERSON.
Sulky-Flow.
No. 214,396.
Patented April 15, 1879.

T. E. JEFFERSON.
Sulky-Flow.
No. 214,396.
Patented April 15, 1879.
PLOWS-WHEEL OR SULKY

J. M. PAYNE
Sulky-Plow.
No. 214,440. Patented April 15, 1879.

L. S. DANIEL
Sulky Plow.

J. R. GILBERT
Sulky-Plow.
J. H. MOORE.
Sulky-Plow

J. J. FLETCHER & J. W. SUESA.
Gang-Plow.
No. 218,250. Patented Aug. 5, 1879.

J. J. FLETCHER & J. W. SUESA.
Gang-Plow.
No. 218,516. Patented Aug. 12, 1879.

INVENTOR.
J. H. Moore.
J. W. Suesa.
J. J. Lithchee.
N. J. TREENERY & J. L. SISLET.
Sulky-Cultivator.

INVENTORS:
William Sislet
Washington Custer

WITNESSES:
F. S. Sislet
J. E. Sislet

M. CAHILL.
Sulky-Plow.
No. 218,856. Patented Aug. 26, 1879.

INVENTOR:
William Sislet

WITNESSES:
N. S. Sislet
J. E. Sislet

W. P. BETTENDORF.
Cultivator and Plow.
No. 219,881. Patented Sept. 9, 1879

INVENTOR:
John Sislet

WITNESSES:
A. S. Sislet
J. E. Sislet

R. HABT & M. P. NICHOLSON.
Gang-Plow.
No. 219,467. Patented Sept. 9, 1879

INVENTORS:
R. Habt
M. P. Nicholson

WITNESSES:
J. S. Habt
A. M. Nicholson
PLOWS: WHEEL OR SULKY

W. J. MEBARDEY
Sulky-Plow.
No. 220,633

W. NEWLIN
Wheel-Plow.
No. 220,643

F. L. CASE
Sulky-Plow.
No. 220,701
Patented Oct. 21, 1879.

A. K. MUNSON
Sulky-Plow.
No. 221,597
Patented Nov. 11, 1879.
PLOWS, WHEEL OR SULKY.

W. A. JAMES
Sulky Plow.
No. 9,501.
Reissued Dec. 21, 1880.

A. LINDEGAARD
Sulky Plow.
No. 224,199
Patented Feb. 3, 1880.

C. G. MATTHEWS
Plow
No. 224,455
Patented Feb. 10, 1880.

J. P. MONZ
Sulky Plow
No. 224,713
Patented Feb. 17, 1880.
F. STANLEY. 
Plow.
No. 225,769. 
Patented Mar. 23, 1880.

B. C. BRADLEY.
Sulky-Plow.
No. 226,027. 
Patented Mar. 30, 1880.

L. CHAPMAN.
Wheel-Flow.
No. 225,744. 
Patented Mar. 23, 1880.

L. CHAPMAN.
Wheel-Flow.
No. 225,744. 
Patented Mar. 23, 1880.
PLowsWheel OR Sulky

L. BROWN
Sulky-Plow
No. 226,705
Patented April 20, 1880.

F. M. FOSTER
Sulky-Plow
No. 226,739
Patented April 20, 1880.

H. BOREHART
One-Wheel Plow
No. 227,723
Patented May 18, 1880.

W. B. QUICK
Sulky-Plow
No. 228,616
Patented June 8, 1880.
PLOWS: WHEEL OR SULKY.

J. B. NEFF.
Sulky Plows.
No. 230,042.
Patented July 13, 1880.

No. 230,335.
Patented July 20, 1880.

H. A. OLSTED.
Osag Plow.
No. 230,192.
Patented July 20, 1880.

L. W. POWELL.
Sulky Plow.
No. 230,042.
Patented July 13, 1880.

WITNESSES

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVENTOR

INVEN
PLOWS—WHEEL OR SULKY.

T. E. JEFFERSON.

Plow. No. 230,419.
Patented July 27, 1880.

H. E. BEETLE.

Sulký Plow.
No. 230,497.
Patented July 27, 1880.

R. M. CLARK.

Wheel Plow.
No. 230,528.
Patented July 27, 1880.
PLOWS—WHEEL OR SULKY.

H. H. CANADAY.

Sulky Plow.

No. 231,210.

Patented Aug. 17, 1880.

Witneses:

Inventor:

H. H. Canaday

McKenzie.

J. L. REUS.

Wheel Plow.

No. 231,193.

Patented Aug. 17, 1880.

Witneses:

Inventor:

J. L. Reuss

James D. Ross.

M. A. ELLIOTT.

Plow.

No. 231,218.

Patented Aug. 17, 1880.

Witneses:

Inventor:

M. A. Elliott

R. E. Storrow.

Attorneys
S. W. FLEMING.
Plow Truck.
No. 231,302.
Patented Aug. 17, 1880.

W. V. MORGAN & T. W. HACKET.
Sulky Plow.
No. 232,052.
Patented Sept. 7, 1880.

T. T. HARRISON.
Sulky Plow.
No. 232,268.
Patented Sept. 14, 1880.
PLOWS—WHEEL OR SULKY

C. F. GODDARD

No. 232,345
Patented Sept. 21, 1880.

Inventor:
Charles C. Goddard

Witnesses:
S. W. Philips
S. N. Washburn

F. B. HUNT

No. 232,505
Patented Sept. 21, 1880.

Inventor:
A. Latham

Witnesses:
E. H. Latham
E. J. Latham

A. LATHAM

No. 232,515
Patented Sept. 21, 1880.

Inventor:
J. D. Latham
PLOWS - WHEEL OR SULKY.

C. PATTERSON & H. L. ABBRAHAMS
Sulky Plow
No. 234,328. Patented Nov. 9, 1880.

W. H. RYER
Sulky Plow
No. 231,615. Patented Nov. 18, 1880.

J. R. McCORMICK
Sulky Plow
No. 234,683. Patented Nov. 23, 1880.

A. T. BERGMANN
Sulky Plow
No. 234,743. Patented Nov. 23, 1880.
PLOWS-WHEEL OR SULKY.

LeR. CARILL.
Sulky Plow.
No. 235,205.
Patented Dec. 7, 1880.

S. B. TAYLOR.
Sulky Plow.
No. 235,313.
Patented Dec. 7, 1880.

J. W. BARCLAY & B. SELLAB.
Combined Plow and Digger.
No. 235,490.
Patented Dec. 14, 1880.
PLOWS WHEEL OR SULKY.

C. L. DICK & M. WOEHL.
No. 236,146.

J. B. S. HIS0IN8.
No. 236,157.

G. S. TAPPAN.
No. 236,193.

R. J. BOWMAN.
No. 236,536.
G. H. Warren.
Clamp for Sulky Plows.
No. 240,207.
Patented April 12, 1881.

H. E. Reeves.
Sulky Plow.
No. 240,925.
Patented May 3, 1881.

G. H. Warren.
Sulky Plow Attachment.
No. 240,299.
Patented April 19, 1881.

H. Reeves, Jr.
Plow Sulky.
No. 241,103.
Patented May 3, 1881.
T. E. JEFFERSON
Plow
Patented June 28, 1881.
No. 243,570

Witnesses:

Inventor:

T. E. JEFFERSON
Plow
Patented June 28, 1881.
No. 243,570

Witnesses:

Inventor:

T. E. JEFFERSON
Plow
Patented June 28, 1881.
No. 243,570

Witnesses:

Inventor:

T. E. JEFFERSON
Plow
Patented June 28, 1881.
No. 243,570

Witnesses:

Inventor:
T. E. JEFFERSON
Plow.
No. 243,570.
Patented June 28, 1881.

Witneses:

J. E. Jefferson

Inventor.

Witnesses:

J. E. Jefferson

Inventor.