



New connection on: : 16-11-2018 : 11:04:50 - Last disconnection on: : 16-11-2018 : 10:57:52

V 4.0.0.44803(LP,U,linux) (Rev:43856 2017-04-27 09:03:29 +0200#(D201820)) (RPM D201820)

Welcome to EPOQUE Rebuild under the Production Environment

[EPODOC: SS 6] ..fi epodoc



Database: EPODOC

[EPODOC: SS 6] A01D46/C/LOW

Results in EPODOC **9.647**

[SS 7] * and blade+

Results in EPODOC **160**

[SS 8] * and ring

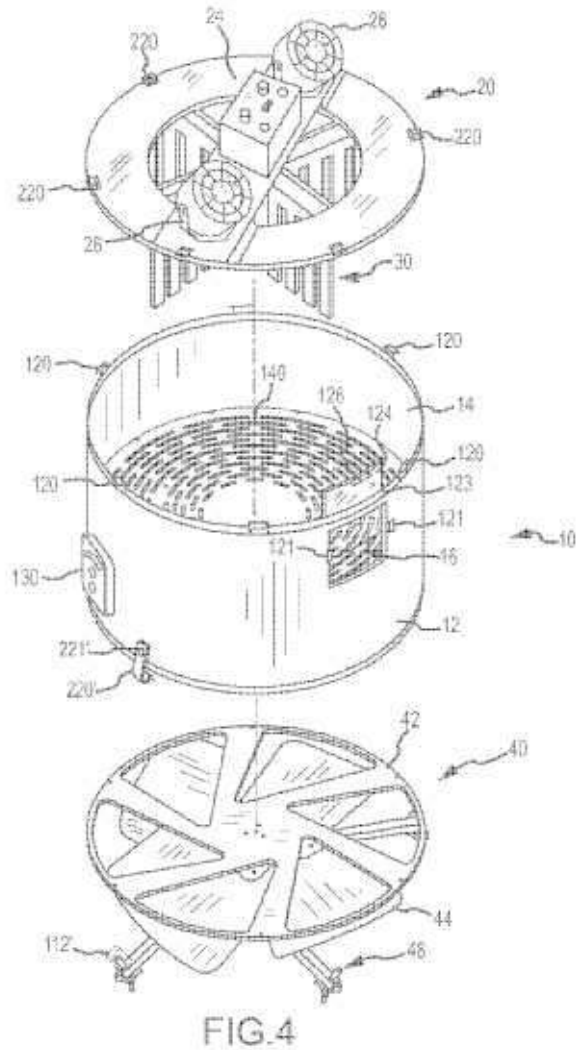
Results in EPODOC **11**

[SS 9] ..li



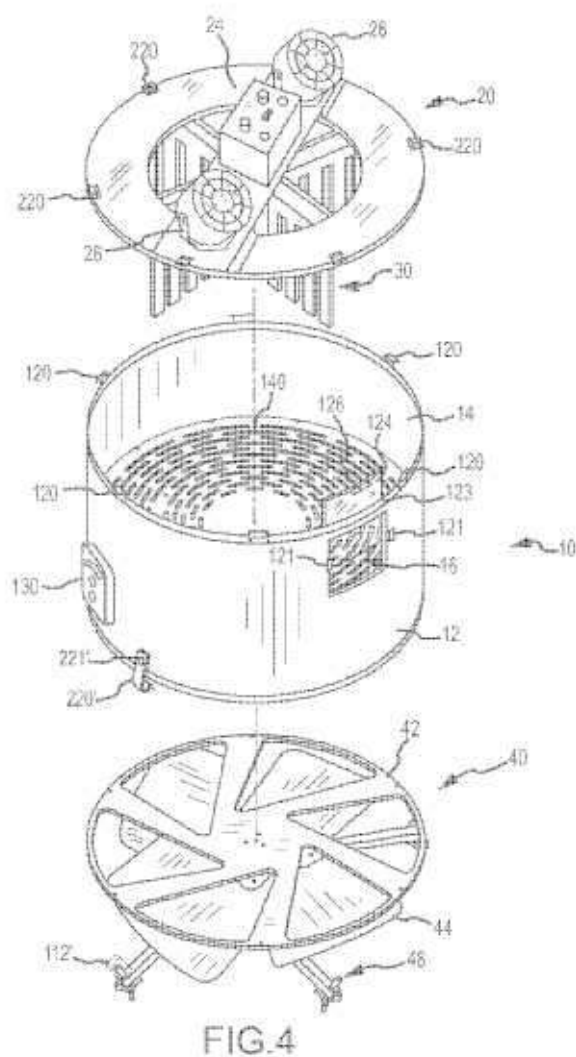
1/11 © EPODOC / EPO

PN - [US2015027096](#) A1 20150129
 PNFP - US9386744 B2 20160712
 PR - US201214365178
 20121214; US201161576911P
 20111216; WO2012US69845
 20121214
 AP - US201214365178 20121214
 DT - **
 CT - || STSE (B2)
[US4043100](#) A 19770823 [
] (AUMANN RICHARD F, et al)
[US4819417](#) A 19890411 [
] (BRYANT JAMES G [US], et al)
[US5231827](#) A 19930803 [
] (CONNOLLY KEVIN J [US], et al)
[US6910648](#) B1 20050628 [
] (REINHOLD THEODORE WILLIAM
 [AU])
[US7305812](#) B2 20071211 [
] (SCHLOESSER CHRISTOPHER M
 [US], et al)
[US8757524](#) B2 20140624 [
] (MOSMAN DONALD [US])
 - || R141 (A1)
[US4043100](#) A [
];
[US4819417](#) A [
];
[US5231827](#) A [
];
[US6910648](#) B1 [
];
[US7305812](#) B2 [
];
[US8757524](#) B2 [
]
 CCI - [A23N15/00](#) ; [A01D34/82](#) ;
[A01D34/835](#)
 CUI - [A01D45/00](#) ; [A01D46/005](#) ;
[A01G17/026](#)
 PA - (A1 B2)
 EASY TRIM LLC [US]
 TI - (A1 B2)
 PLANT TRIMMING APPARATUS
 AND METHODS OF USING THE
 SAME
 AB - (A1 B2)
 A plant trimming apparatus
 comprising a container having
 top and bottom end regions and
 a grate supported therein. A
 cutting **blade** and a fan **blade** are
 rotatably supported within the



container. The fan **blade** is operative to create an air flow from the top end region to the bottom end region+vortex. The apparatus comprises a **blade** motor including a shaft, wherein the cutting **blade** and the fan **blade** are supported on the shaft. The cutting **blade** includes a plurality of forward or rear leaning **blades** that cooperate with the grate openings to cut parts off the plant. The **blade** has an outer **ring** extending between each of the plurality of **blades**. A lid assembly is attached to an upper rim portion of the container and supports an agitator motor that is connected to an agitator arm that is disposed within the container above the grate.

PN - [CN104114018](#) A 20141022
 PNFP - CN104114018B B 20161012
 PR - WO2012US69845
 20121214; US201161576911P
 20111216
 AP - CN2012862156 20121214
 DT - I
 CT - || STSE (A)
[CN201274675Y](#) Y 20090722
 [A] (YUNAN TOBACCO COMPANY
 YUXI BRA [CN])
 [A] 1-26
 * 全文 *;
[CN201383946Y](#) Y 20100120
 [A] (PENG MO)
 [A] 1-26
 * 全文 *;
[CN201160378Y](#) Y 20081210
 [A] (WEIJUN XU [CN])
 [A] 1-26
 * 全文 *;
[CN201537519U](#) U 20100804
 [A] (YONGKANG ZHENGDA IND CO
 LTD)
 [A] 1-26
 * 全文 *;
[CN200953755Y](#) Y 20071003
 [A] (LIANG GUIQING [CN])
 [A] 1-26
 * 全文 *;
[CN2807756Y](#) Y 20060823
 [A] (CAO ZHUJUN [CN])
 [A] 1-26
 * 全文 *;
[CN101401505](#) A 20090408
 [A] (BLACK & DECKER INC [US])
 [A] 1-26
 * 全文 *
 CCI - [A23N15/00](#) ; [A01D34/82](#) ;
[A01D34/835](#)
 CUI - [A01D45/00](#) ; [A01D46/005](#) ;
[A01G17/026](#)
 PA - (A)
 EASY TRIM LLC
 TI - (A)
 Plant trimming apparatus and
 methods of using the same



AB

- (A)

A plant trimming apparatus comprising a container having top and bottom end regions and a grate supported therein. A cutting **blade** and a fan **blade** are rotatably supported within the container. The fan **blade** is operative to create an air flow from the top end region to the bottom end region + vortex. The apparatus comprises a **blade** motor including a shaft, wherein the cutting **blade** and the fan **blade** are supported on the shaft. The cutting **blade** includes a plurality of forward or rear leaning **blades** that cooperate with the grate openings to cut parts off the plant. The **blade** has an outer **ring** extending between each of the plurality of **blades**. A lid assembly is attached to an upper rim portion of the container and supports an agitator motor that is connected to an agitator arm that is disposed within the container above the grate.

PN - [CA2858239](#) A1 20130620

PR - US201161576911P
20111216; WO2012US69845
20121214

AP - CA20122858239 20121214

DT - I

CCI - [A23N15/00](#) ; [A01D34/82](#) ;
[A01D34/835](#)

CUI - [A01D45/00](#) ; [A01D46/005](#) ;
[A01G17/026](#)

PA - EASY TRIM LLC [US]

TI - PLANT TRIMMING APPARATUS
AND METHODS OF USING THE
SAME

AB - A plant trimming apparatus
comprising a container having
top and bottom end regions and
a grate supported therein. A
cutting **blade** and a fan **blade**
are rotatably supported within
the container. The fan **blade**
is operative to create an air flow
from the top end region to the
bottom end region + vortex. The
apparatus comprises a **blade**
motor including a shaft, wherein
the cutting **blade** and the
fan **blade** are supported on the
shaft. The cutting **blade** includes
a plurality of forward or rear
leaning **blades** that cooperate
with the grate openings to cut
parts off the plant. The **blade**
has an outer **ring** extending between
each of the plurality of **blades**. A
lid assembly is attached to an
upper rim portion of the
container and supports an
agitator motor that is connected
to an agitator arm that is
disposed within the container
above the grate.

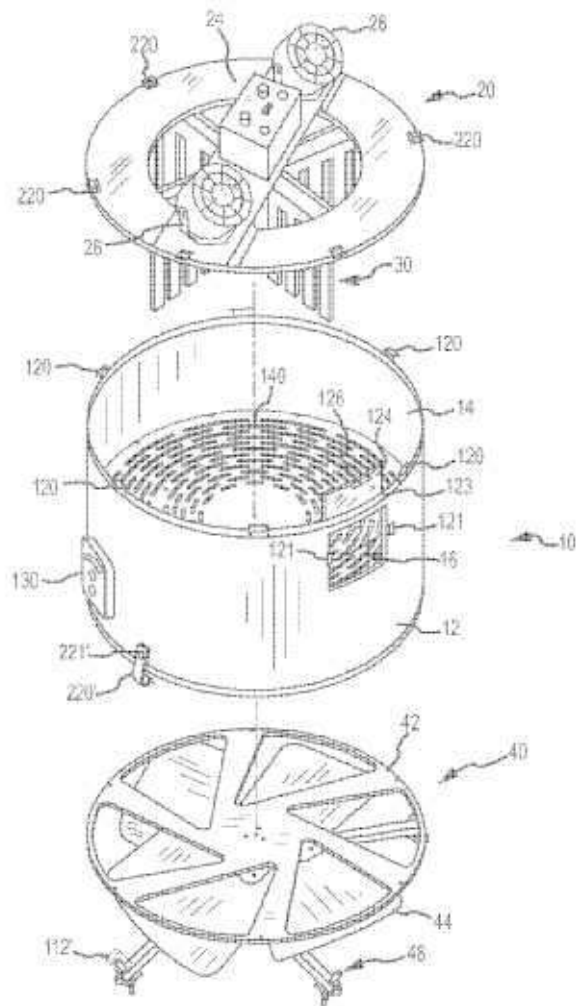


FIG. 4

PN - [AU2012352054](#) A1 20140717

PR - US201161576911P
20111216; WO2012US69845
20121214

AP - AU20120352054 20121214

DT - I

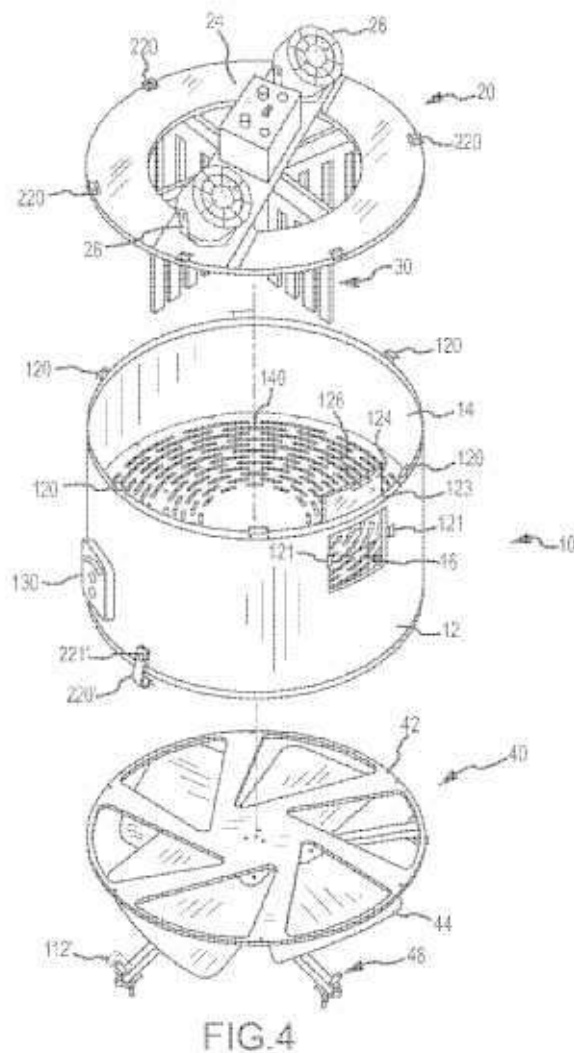
CCI - [A23N15/00](#) ; [A01D34/82](#) ;
[A01D34/835](#)

CUI - [A01D45/00](#) ; [A01D46/005](#) ;
[A01G17/026](#)

PA - EASY TRIM LLC

TI - Plant trimming apparatus and
methods of using the same

AB - A plant trimming apparatus
comprising a container having
top and bottom end regions and
a grate supported therein. A
cutting **blade** and a fan **blade**
are rotatably supported within
the container. The fan **blade**
is operative to create an air
flow from the top end region to
the bottom end region + vortex.
The apparatus comprises a **blade**
motor including a shaft, wherein
the cutting **blade** and the
fan **blade** are supported on the
shaft. The cutting **blade** includes
a plurality of forward or rear
leaning **blades** that cooperate
with the grate openings to cut
parts off the plant. The **blade**
has an outer **ring** extending
between each of the plurality
of **blades**. A lid assembly is
attached to an upper rim portion
of the container and supports
an agitator motor that is
connected to an agitator arm
that is disposed within the
container above the grate.



PN - [WO2013090779](#) A1 20130620

PR - US201161576911P 20111216

AP - WO2012US69845 20121214

DT - *; Rep

CT - |KR| ISR (A1)
[US7305812](#) B2 20071211
 [A] (SCHLOESSER CHRISTOPHER M [US], et al);
[US7168643](#) B2 20070130
 [A] (MERCIER PIERRE [CA]);
[US5231827](#) A 19930803
 [A] (CONNOLLY KEVIN J [US], et al);
[WO02091863](#) A1 20021121
 [A] (BONNY PHILIPPE [CH], et al)

CCI - [A23N15/00](#) ; [A01D34/82](#) ;
[A01D34/835](#)

CUI - [A01D45/00](#) ; [A01D46/005](#) ;
[A01G17/026](#)

PA - EASY TRIM LLC [US]

TI - PLANT TRIMMING APPARATUS AND METHODS OF USING THE SAME

AB - A plant trimming apparatus comprising a container having top and bottom end regions and a grate supported therein. A cutting **blade** and a fan **blade** are rotatably supported within the container. The fan **blade** is operative to create an air flow from the top end region to the bottom end region + vortex. The apparatus comprises a **blade** motor including a shaft, wherein the cutting **blade** and the fan **blade** are supported on the shaft. The cutting **blade** includes a plurality of forward or rear leaning **blades** that cooperate with the grate openings to cut parts off the plant. The **blade** has an outer **ring** extending between each of the plurality of **blades**. A lid assembly is attached to an upper rim portion of the container and supports an

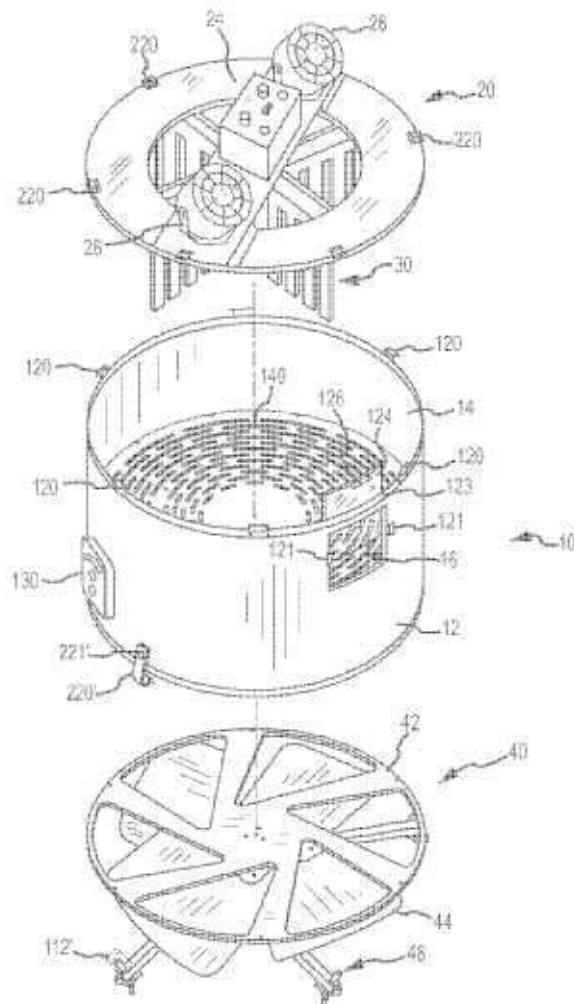


FIG. 4

agitator motor that is connected to an agitator arm that is disposed within the container above the grate.

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PN - [KR20130035672](#) A 20130409

PNFP - KR101338195B B1 20131209

PR - KR20110100119 20110930

AP - KR20110100119 20110930

DT - I

CCI - [A01G3/02](#) ; [A01D46/247](#)

PA - (A)

DIRECTOR OF CHUNGCHEONGBUK DO AGRICULTURAL RES AND EXTENSION SERVICES [KR]

TI - (A)

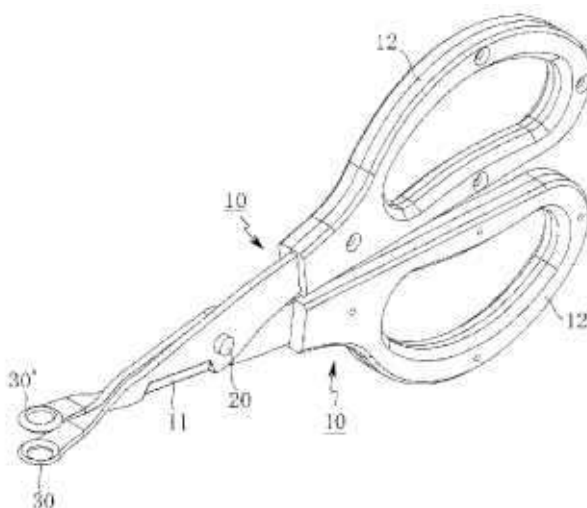
A SCISSORS FOR THINNING OUT OF GRAPE BERRIES WITH PINCHING OF GRAPES

- (B1)

A scissors for thinning out of grape berries with pinching of grapes

AB - (A)

PURPOSE: Scissors for grape pinching and fruit thinning exclusive use are provided to efficiently thin grapes in a bunch of graphs that are densely adhered at the beginning of fruition and to ease grape pinching. CONSTITUTION: Scissors for grape pinching and fruit thinning exclusive use comprises a first cutting member (10) including a cutting **blade** part(11) and a handle part(12); a second cutting member having a cutting **blade** part and a handle part(12'); a hinge uniting means (20) rotatably uniting the first and second cutting members; a gripper(30) formed on a top-end part of the first cutting member; and a gripper(30') formed on a top-end part of the second



cutting member. The cutting **blade** part is formed of stainless steel, and the handle part is formed by covering stainless steel with a synthetic resin. The hinge uniting means may be a pivot pin or a pivot screw. The gripper is formed as a **ring** shape at the top-end part, which is a 180° twisted end part of the first cutting member, and the other gripper is formed as a **ring** shape at the top-end part, which is a 180° twisted end part of the second cutting member. Thus, the gripper and the other gripper face each other, and surfaces of the grippers have a shape of a concave curve that covers a surface of a globe.

PN - [GB191416398](#) A 19150506

PR - GBT191416398 19140709

AP - GBD191416398 19140709

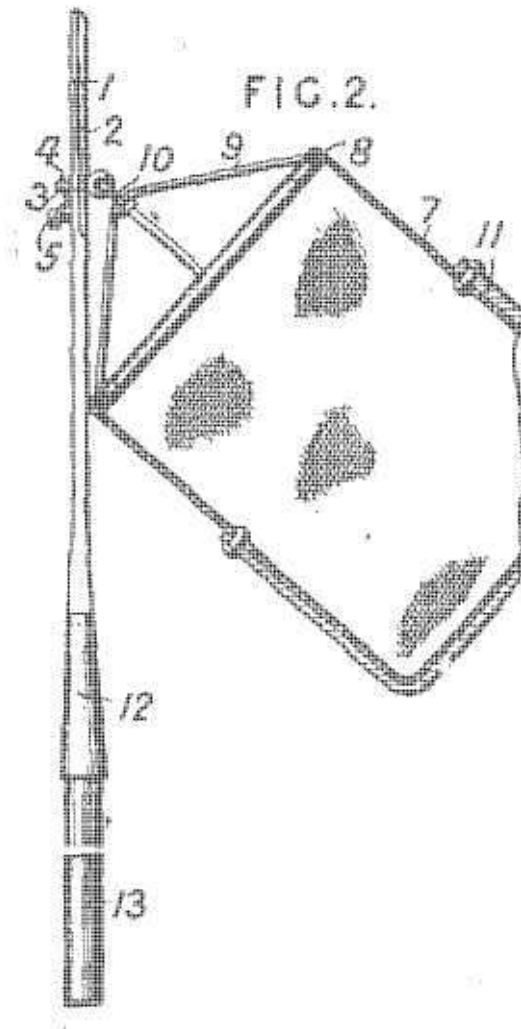
DT - *

CCI - [A01D46/247](#)

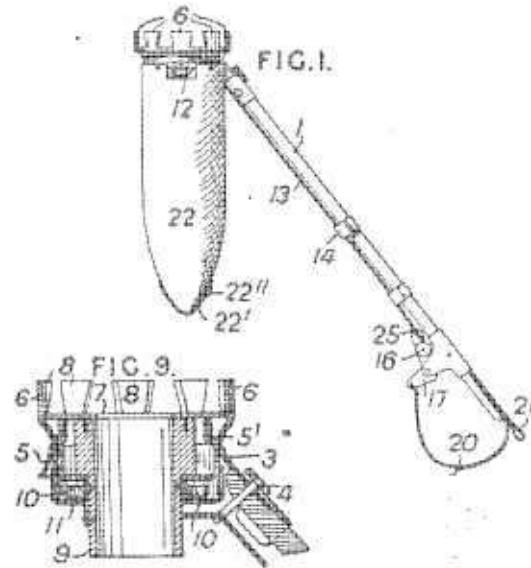
PA - SUNDQUIST JOHN AUGUST [US]

TI - Improvements in Fruit Pickers.

AB - 16,398. Sundquist, J. A. July 9.
Fruit, gathering. -An appliance
for picking fruit comprises a pair
of long-handled scissors or
shears and a receptacle
suspended from the pivot pin of
the scissors, the pivot pin 3
being removably secured by an
adjustable curved spring 4
which presses the **blades** 1, 2
together. The pressure of the
spring is adjusted by means of a
screw 5. The receptacle 7
consists of fabric fastened to
a **ring** 8 which is connected to
the pin 3 by a web 9 and swivel
10. The fabric receptacle may be
partly covered with leather 11.
Handles 13 of various lengths
are fitted into tapered sockets 12
at the end of the **blades**:

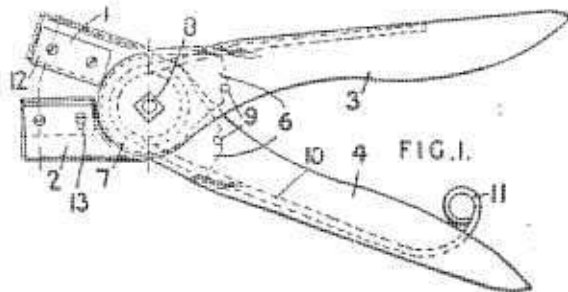


PN - [GB191305900](#) A 19130911
 PR - USX191305900 19120311
 AP - GBD191305900 19130310
 DT - *
 CCI - [A01D46/247](#)
 PA - BAUER CARL [US]
 TI - Improvements in Fruit Pickers.
 AB - 5900. Bauer, C. March 11, 1912, [Convention date]. Hand-operated clippers with multiple teeth.- The cutting-**blades** 6 arranged in a **ring** have a trapezoidal shape as shown. The inner movable cutter 7 has similar **blades** 8 and is fastened to a tube 9 normally held in place by a spring 10 connected to a projection 12 on the **ring** 3 and enclosed in a casing 11. The cutter 7 is operated against the action of the spring 10 by pressing on a spring 20 fastened to the rod 1 near the hand-grip 21 and to a bell - crank lever 17, to which a cord 13 is adjustably attached by means of a reel 16 provided with a locking-ratchet. The cord 13 is hooked round the tube 9 and passes through the eye-bolt 4, guides 14, and a wire clamp 25. The clipper shown is adapted for picking fruit.



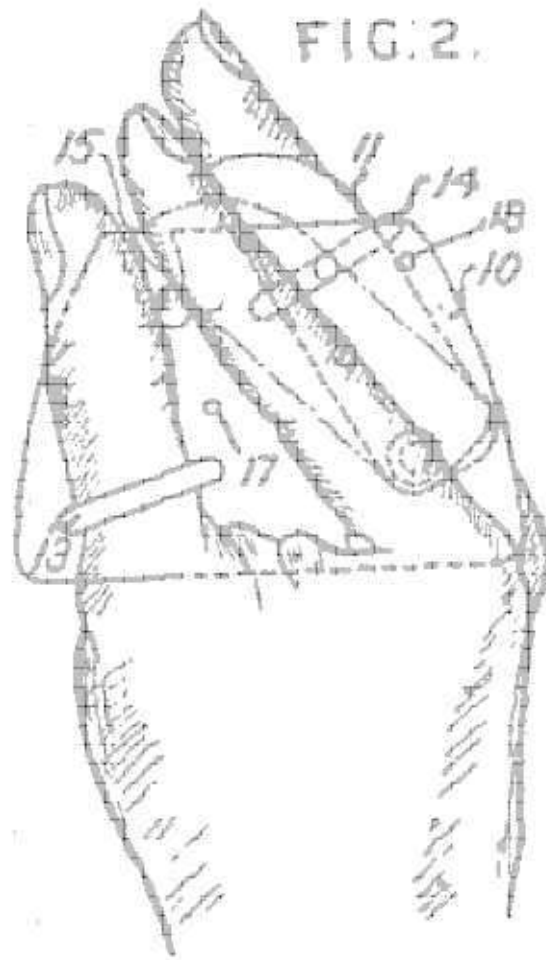
9/11 © EPODOC / EPO

PN - [GB191002729](#) A 19100616
 PR - USX191002729 19090203
 AP - GBD191002729 19100203
 DT - *
 CCI - [A01D46/247](#)
 PA - MORSE GEORGE FREEMAN [US]
 TI - Improved Device for Picking Grapes and other purposes.
 AB - 2729. Morse, G. F. Feb. 3, 1909, [Convention date]. Shears.-A tool for picking grapes and for



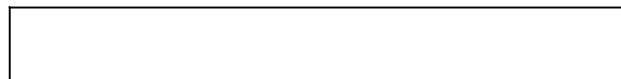
pruning comprises shearing-**blades** and removable gripping-blocks mounted on pivoted jaws, which are U-shaped in cross-section, and are adapted to be closed by pivoted handles normally held apart by a spring. The handles 3, 4 are channel-shaped and have overlapping heads 7 pivoted on a removable bolt 8, which also passes through the ends 6 of the U-shaped jaws 1, 2. Pins 9 secure the ends 6 of the jaws in the channel-shaped handles. The jaws are held open by a spring 10, which is coiled round the bolt 8, and has one end formed into a suspending-**ring** 11. The jaws and handles are formed by doubling strips of metal. One of the shearing-**blades** 12 is adjustable by means of a slot 13. Yielding gripping-blocks are secured in the U-shaped jaws. They may be of rubber, or of wood backed by springs. They project beyond the jaws but terminate flush with, or short of, the cutting-edges of the **blades** 12. For pruning purposes, the gripping-blocks are removed.

PN - [GB550062](#) A 19421221
 PR - GB19410012571 19410929
 AP - GB19410012571 19410929
 DT - *
 CCI - [A01D46/247](#)
 PA - CHARLES CARTWRIGHT
 TI - Improvements in horticultural cutters
 AB - 550,062. Shears. CARTWRIGHT C. Sept. 29, 1941. No. 12571. [Class 30] Horticultural cutters consist of a plate 10 to which is pivoted a **blade** 11, the plate and **blade** having **ring** handles 13, 14 on opposite sides, one **ring** receiving the thumb which extends towards the point of cutting. The cutter is actuated by one hand, the thumb passing over the plate through **ring** 13 and the second finger under the plate and **blade** through **ring** 14. The stem may be held between the thumb and first finger, and the third and fourth fingers used to hold the fruit, &c. The plate may have a recess 15 to receive and trap the stem, and stops 17, 18 may be provided for the **blade**.



11/11 © EPODOC / EPO

PN - [FR2390084](#) A1 19781208
 PNFP - FR2390084 B3 19800425
 PR - FR19770014670 19770513
 AP - FR19770014670 19770513
 DT - *; Rep
 CCI - [A01D46/005](#) ; [A01G17/026](#)
 PA - (A1)
 DABRIGEON YVON [FR]
 - (B3)
 DABRIGEON YVON
 TI - (A1)
 Mechanical leaf remover for vines - has fans mounted on plates which are connected to



arms by parallelogram linkages

AB

- (A1)

A transverse beam(1) telescopically supports two arms (2), plate(3) being connected by a parallelogram linkage(5, 6) to each arm. Ball bearings are provided at the pivots so plates (3) can move freely with low effort. The plate(3) carries a jam (7) which is driven by a motor(8). The jam is mounted in a casing (9) having an opening(10) through which links(5, 6) pass. The jam has **blades**(12) between a hub(11) and an annular **ring** (15). A guard(17) comprising a number of tines are connected at (19) to the casing. The tines are flexible and prevent damage to stems and fruit.

[SS 9]