# UNITED STATES DISTRICT COURT SOUTHERN DISTRICT OF NEW YORK

<b>Allstar Marketing</b>	Group, LLC
and	
Felknor Ventures,	LLC

Plaintiffs

v.

TV Products USA, Inc., Menard, Inc., and Fred, Inc.

**Defendants** 

Civil Action No.:

**COMPLAINT** 

**Jury Trial Demanded** 

Plaintiff Allstar Marketing Group, LLC ("AMG") and Felknor Ventures, LLC ("Felknor") complains against Defendants TV Products USA, Inc. ("TV Products"), Menard, Inc. ("Menards") and Fred, Inc. ("Fred's") as follows:

# **NATURE OF THIS ACTION**

1. Plaintiffs bring this action for patent infringement under the Patent Laws of the United States, 35 U.S.C § 101 et seq.

# JURISDICTION AND VENUE

- 2. This is an action for patent infringement arising under the patent laws of the United States (Title 35 of the United States Code). This Court has subject matter jurisdiction of this action pursuant to 28 U.S.C. §§ 1331 and 1338(a).
- 3. This Court has personal jurisdiction over Defendant TV Products because TV Products is incorporated in this state, has a principal place of business within this judicial district and otherwise purposefully avails itself of the benefits of this judicial district.

  #323226.1

- 4. This Court has personal jurisdiction over Defendant Menards pursuant to CPLR § 302(a) of the New York State Long-Arm Statute and the U.S. Constitution because Defendant is contracting to supply goods in the State of New York and within this judicial district, and otherwise purposefully avails itself of the benefits of this judicial district.
- 5. This Court has personal jurisdiction over Defendant Fred's pursuant to CPLR § 302(a) of the New York State Long-Arm Statute and the U.S. Constitution because, on information and belief, Defendant has contracted with TV Products within the State of New York and within this judicial district for goods that are the subject of this Action, and otherwise purposefully avails itself of the benefits of this judicial district.
  - 6. Venue is proper in this district pursuant to 28 U.S.C. §§ 1391(b-c) and 1400(b).

## THE PARTIES

- 7. Plaintiff AMG is a corporation duly organized and existing under the laws of the State of New York with its principal place of business at 4 Skyline Dr., Hawthorne, NY 10532.
- 8. Plaintiff Felknor is a corporation duly organized and existing under the laws of the State of Tennessee with its principal place of business at 9737 Cogdill Rd, Suite 215, Knoxville, TN 37932.
- 9. Upon information and belief, Defendant TV Products is a New York corporation having a place of business at 230 5<sup>th</sup> Ave, Ste # 605, New York, NY 10001-7865.
- 10. Upon information and belief, Defendant Menards is a corporation having a place of business at 1233 165<sup>th</sup> Street, Hammond, IN 46320-2746.
- 11. Upon information and belief, Defendant Fred's is an Alabama corporation with a place of business at 63 Greeno Rd. N, Fairhope, AL 36532.

## **FACTS**

# Plaintiffs' Patent

- 12. On March 2, 2010, United States Patent No. 7,669,366 (the "'366 Patent") issued to Wilson Felknor for an invention entitled "Plant Retainer for Retaining A Plant For Growth From The Side or Bottom of Planter." A copy of the '366 Patent is attached hereto as Exhibit A.
- 13. Plaintiff Felknor has been assigned the entire right, title, and interest in the '366 Patent.
- 14. On June 13, 2008, Felknor granted AMG exclusive rights to the '366 Patent including, but not limited to, the right to enforce the '366 Patent against third parties.

# Defendants and Their Infringing Activities

- 15. On information and belief, defendant TV Products has been manufacturing, using, selling and/or offering for sale plant retainer devices sold as the "Tomato Planter" or "Strawberry Planter" under the trademark "Handy Trends" (the "Accused Products") in this District and throughout the United States. On information and belief, defendant TV Products supplied the Accused Products to Menards and Fred's.
- 16. On information and belief, defendant Menards has been manufacturing, using, selling and/or offering for sale the Accused Products in this District and throughout the United States.
- 17. On information and belief, defendant Fred's contracted for the sale of the Accused Products in this District, and has been manufacturing, using, selling and/or offering for sale the Accused Products throughout the United States.

# **INFRINGEMENT OF THE '366 PATENT**

- 18. Plaintiffs repeat and re-allege each of the allegations in paragraphs 1 through 17 as if fully set forth herein.
- 19. Defendants have been and are now directly infringing one or more claims of the '366 Patent by manufacturing, using, selling, licensing, leasing, and/or offering for sale the Accused Products without the authority of Plaintiffs.
- 20. Defendants have been and are now inducing others to infringe one or more of the claims of the '366 Patent through their sale and/or offering for sale of the Accused Products without the authority of Plaintiffs.
- 21. Plaintiffs have been and will be damaged and harmed, by Defendants' infringement.
  - 22. Plaintiffs have no adequate remedy at law.

## PRAYER FOR RELIEF

- A. Judgment be entered for Plaintiffs.
- B. The Court declare that Defendants infringe the '366 Patent.
- C. The Court preliminarily and permanently enjoin Defendants, their officers, agents, servants, employees, attorneys, and those persons acting for, with, by, under, in privity with, in active concert with, and in participation with any one of them, from manufacturing, using, selling, licensing, importing, exporting, and/or offering for sale the Accused Products or any products that infringe the '366 Patent, and from inducing or contributing to the infringement of the '366 Patent.
- D. The Court order Defendants to send written notification to their dealers, distributors, and customers for the Accused Products of their infringing activities, advising of the #323226.1

4

entry of the injunction and order, and requiring that the infringing devices still in inventory be returned to Defendants, and that all infringing activities cease.

- E. The Court require Defendants to account for and pay over to Plaintiffs all damages sustained by Plaintiffs including, but not limited to, a reasonable royalty and/or lost profits due by reason of infringement, such reasonable royalty and/or lost profits to be based on lost sales.
- F. Defendants be required to pay to Plaintiffs all of their costs and disbursements in this action.
- G. This Court declare that Plaintiffs are entitled to such other and further relief as the Court may deem just, proper, and appropriate.

Pursuant to Fed. R. Civ. P. 38(b), Plaintiffs demand a trial by jury on all issues triable of right, or operation of law, by jury.

Dated: March 26, 2010

Respectfully Submitted, Kane Kessler, P.C.

James Hanft (JEH-9230)

Adam Cohen (AMC-9918)

Jeffrey H. Daichman (JHD-8802)

Sarah Yousuf (SBY-0305)

Kane Kessler, P.C.

1350 Avenue of the Americas

New York, NY 10019

Tel: 212.541.6222

Fax: 212.245.3009

Attorneys for Plaintiffs

Allstar Marketing Group, LLC and

Felknor Ventures, LLC

**EXHIBIT A** 

# (12) United States Patent Felknor

(10) Patent No.:

US 7,669,366 B2

(45) Date of Patent:

Mar. 2, 2010

(54)	PLANT RETAINER FOR RETAINING A
	PLANT FOR GROWTH FROM THE SIDE OR
	BOTTOM OF A PLANTER

(75) Inventor: Wilson A. Felknor, Lenoir City, TN

(US)

(73) Assignee: Felknor Ventures LLC, Knoxville, TN

(US)

(\*) Notice: Subject to any disclaimer, the term of the

Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: 12/322,904

(22) Filed: Feb. 9, 2009

(65) **Prior Publication Data**US 2009/0255179 A1 Oct. 15, 2009

#### Related U.S. Application Data

- (60) Provisional application No. 61/123,772, filed on Apr. 12, 2008.
- (51) Int. Cl. A47G 7/02 (2006.01)

### (56) References Cited

# U.S. PATENT DOCUMENTS

3,733,745 A \* 5/1973 Ingerstedt et al. ...... 47/77

4,920,695	A *	5/1990	Garden 47/83
5,031,359	A *	7/1991	Moffett, Jr 47/83
5,363,594	A *	11/1994	Davis 47/82
5,579,603	A *	12/1996	Fukuzumi 47/58.1 R
6,298,600	B1 *		Feldman 47/67
6,874,278	B2 *	4/2005	Felknor et al 47/67
7,171,782	B2 *	2/2007	Felknor et al 47/73
2004/0103585	A1*	6/2004	Yokomori 49/360

## FOREIGN PATENT DOCUMENTS

GB	2147484	A	*	5/1985
GB	2152345	Α	*	8/1985
JР	2004141174	Α	*	5/2004
WO	WO 2008143525	ΑI	*	11/2008

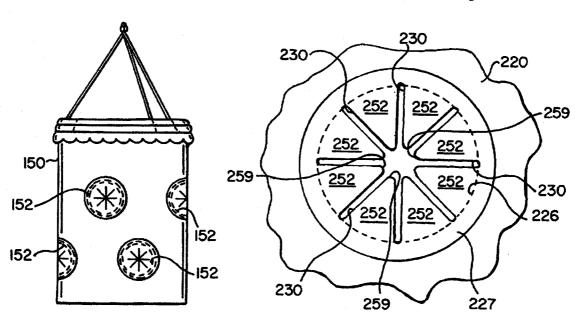
\* cited by examiner

Primary Examiner—Francis T Palo (74) Attorney, Agent, or Firm—Michael E. McKee

#### (57) ABSTRACT

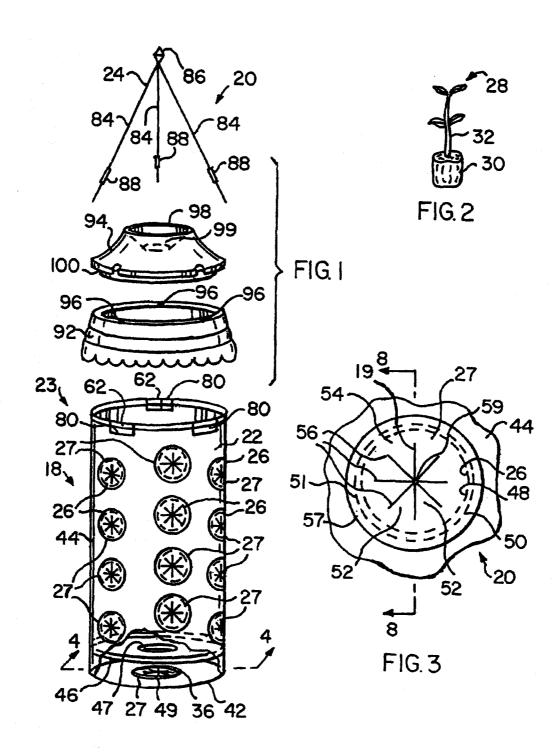
A planter for growing a transplantable plant includes a container having a sidewall and a bottom and further includes a retainer member for retaining a plant which has been transplanted within the container through the sidewall or bottom thereof. The retainer member defines an expandable opening which is movable between expanded and normally-collapsed conditions so that by urging a plant root system end-first against the retainer member, the expandable opening is moved to an expanded condition to permit the root system to pass through the expandable opening into the container interior. Upon passage of the root system through the expandable opening, the expandable opening is permitted to return toward its normally-collapsed condition about the stem of the plant to thereby prevent the withdrawal of the root system of the plant from the container interior through the plant retainer.

#### 5 Claims, 7 Drawing Sheets



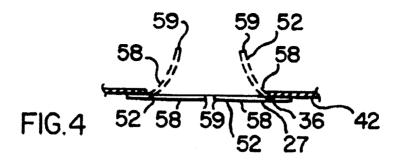
Mar. 2, 2010

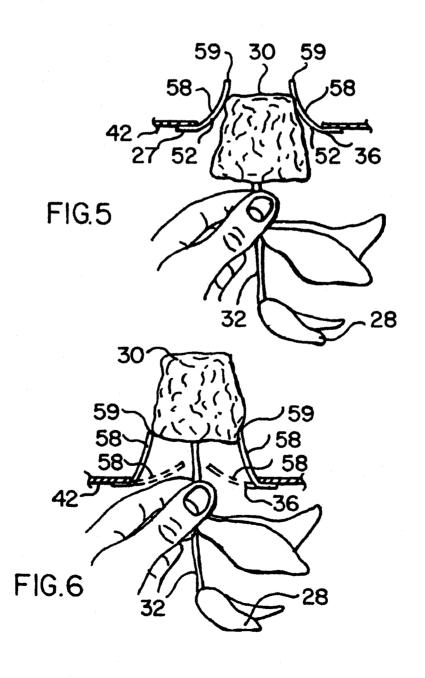
Sheet 1 of 7



Mar. 2, 2010

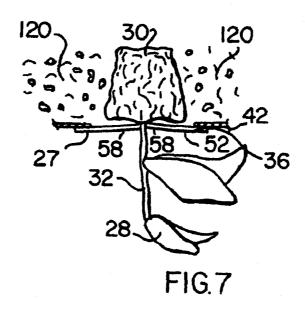
Sheet 2 of 7

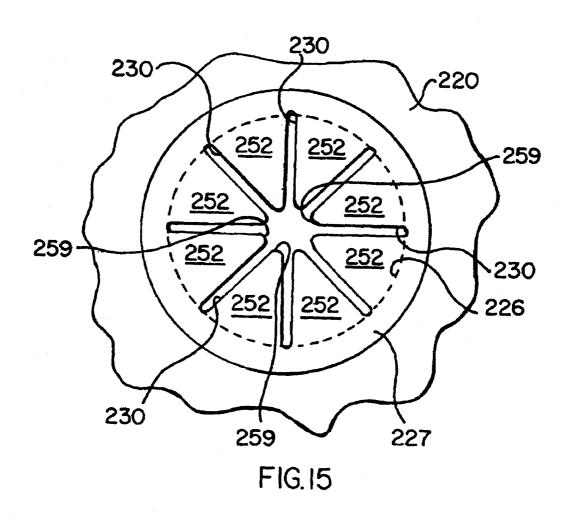




Mar. 2, 2010

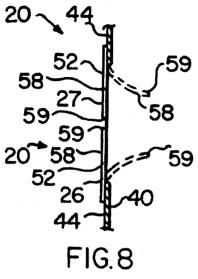
Sheet 3 of 7





Mar. 2, 2010

Sheet 4 of 7



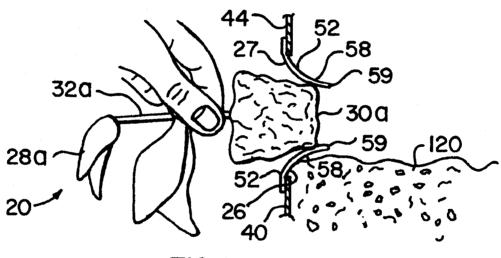
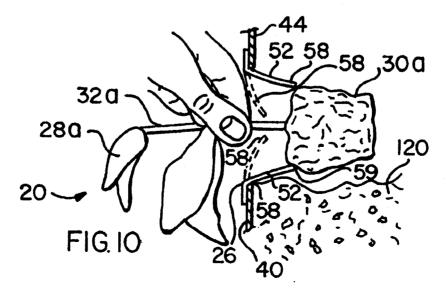


FIG.9



U.S. Patent Mar. 2, 2010 Sheet 5 of 7

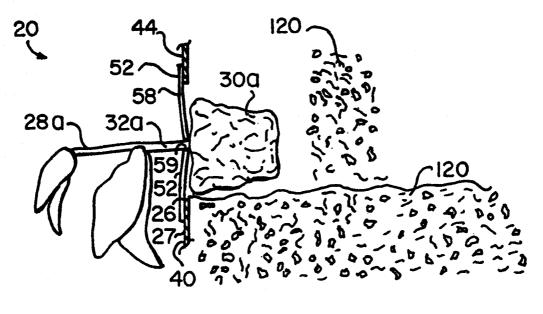
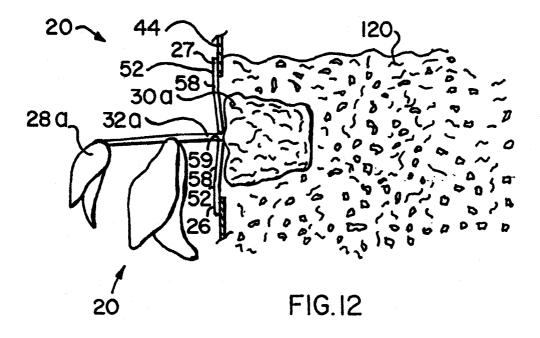
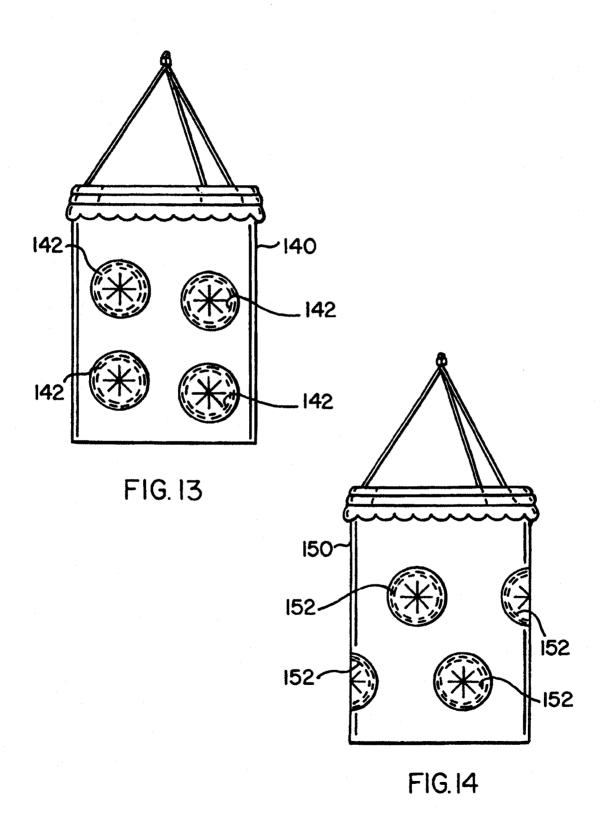


FIG.11



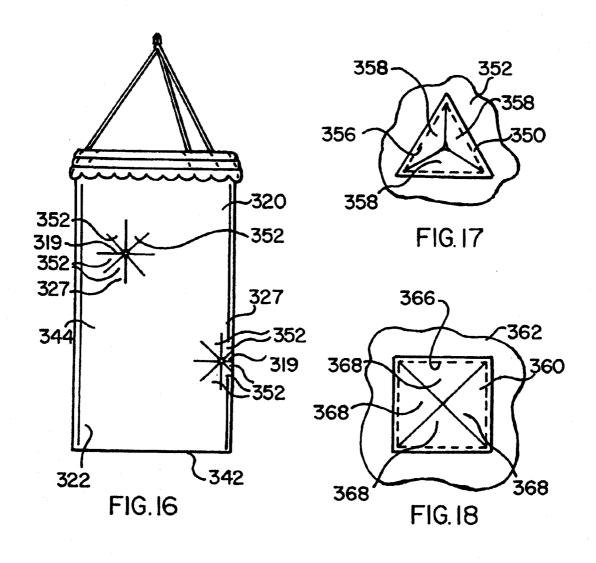
Mar. 2, 2010

Sheet 6 of 7



Mar. 2, 2010

Sheet 7 of 7



10

#### PLANT RETAINER FOR RETAINING A PLANT FOR GROWTH FROM THE SIDE OR **BOTTOM OF A PLANTER**

The benefit of Provisional Application Ser. No. 61/123, 5 772, filed Apr. 12, 2008 and entitled PLANTER FOR GROW-ING A PLANT FROM THE SIDE THEREOF, is hereby claimed. The disclosure of this referenced provisional patent application is incorporated herein by reference.

#### BACKGROUND OF THE INVENTION

This invention relates generally to gardening accessories and relates, more particularly, to a planter within which plants are transplanted for growth.

The type of planter with which this invention is concerned includes those which are adapted to contain dirt or potting soil and into which a transplantable plant can be transplanted so that the plant continues its growth within the planter.

U.S. Pat. No. 7,171,782, on which I was named as a co- 20 planter assembly. inventor, describes a planter which is adapted to be hung from an overhead support structure and into which multiple plants can be transplanted for growth out the sides of the planter. Such a planter is advantageous in that it enables multiple plants to be grown in an elevated condition above the ground 25 (and thereby prevent the exposure of the plants, or the fruit thereof, to ground-related problems) without the need for appreciable space (e.g. ground space) for growing the plants.

It would be desirable to provide an improved planter for growing a plant or multiple plants in an elevated condition 30 above the ground which embodies alternative means for holding the roots of a plant within the planter for growth of the stem of the plant out of the planter.

Accordingly, it is an object of the present invention to multiple plants in an elevated condition above the ground.

Another object of the present invention to provide such a planter having a container within which plants can be grown out the side or bottom thereof and including improved means for retaining the roots of the plants within the container.

Yet another object of the present invention is to provide such a planter whose grow ports enable plants to be transplanted into the container of the planter relatively quickly.

Still another object of the present invention is to provide such a planter which is uncomplicated in structure, yet effec- 45 tive in operation.

One more object of the present invention is to provide a plant retaining means which can be utilized in conjunction with a grow port formed in a side or bottom of a planter for retaining a plant within the container for growth out of the 50 grow port of the container.

#### SUMMARY OF THE INVENTION

This invention resides in an improvement for a planter 55 within which a transplantable plant having a stem and a root system is desired to be transplanted for growth and wherein the planter includes a container defining a sidewall or a bottom and an interior.

The improvement is characterized in that there is incorporated within the container a means for retaining the root system of a plant which has been transplanted within the container. The retaining means defines an expandable opening which is movable between an expanded condition and a normally-collapsed condition so that by urging a transplant- 65 able plant root system-first against the plant retaining means from the exterior of the container, the expandable opening is

moved to an expanded condition from its normally-collapsed condition to permit the root system to pass through the expandable opening into the container interior. Upon passage of the root system of the plant through the expandable opening as aforesaid, the expandable opening is permitted to return toward its normally-collapsed condition about the stem of the transplantable plant to thereby prevent the withdrawal of the root system of the plant from the container interior through the plant retaining means.

#### **BRIEF DESCRIPTION OF THE DRAWINGS**

FIG. 1 is a perspective view of one embodiment of a planter within which features of the present invention are embodied 15 and shown exploded and partially cut-away.

FIG. 2 is a perspective view of an example of a plant capable of being transplanted within the FIG. 1 planter for continued growth of the plant.

FIG. 3 is a fragmentary view of the side of the FIG. 1

FIG. 4 is a cross-sectional view taken along line 4-4 of FIG.

FIGS. 5-7 are views which illustrate the sequential steps involved in transplanting the plant of FIG. 2 through the planter grow port provided in the bottom of the FIG. 1 planter.

FIG. 8 is a cross-sectional view taken along line 8-8 of FIG.

FIGS. 9-12 are views which illustrate the sequential steps involved in transplanting a plant like that of the FIG. 2 plant through a planter grow port provided in the side of the FIG. 1 planter.

FIGS. 13 and 14 are side views of alternative embodiments of planters which embody features of the present invention.

FIG. 15 is a fragmentary side view of a container showing provide a new and improved planter for growing a plant or 35 an exemplary retainer for covering a grow port of the con-

> FIG. 16 is a perspective view of a still another alternative planter within which features of the invention are embodied.

FIG. 17 is a side view of a fragment of yet still another planter within which a triangular-shaped retainer member is

FIG. 18 is a side view of a fragment of one more planter within which a square-shaped retainer member is incorpo-

#### DETAILED DESCRIPTION OF AN ILLUSTRATIVE EMBODIMENT

Turning now to the drawings in greater detail and considering first FIG. 1, there is illustrated an embodiment, generally indicated 20, of a planter within which features of the present invention are incorporated. The planter 20 includes a container 22 within which plants are transplanted for growth and a hanger assembly 24 which facilitates the suspension of the container 22 above a floor or underlying surface.

The container 22 includes wall means, generally indicated 23, having sidewalls 44 and a bottom 42 which define a plurality of openings, or grow ports, through which transplanted plants are permitted to grow. Most of these container openings are provided by side grow ports 26 which open out of the sidewalls 44 of the container 22, while one container opening is provided by a bottom grow port 36 which opens out of the container bottom 42. Furthermore, there is associated with each grow port 26 or 36 a plant retaining means, generally indicated 18, in the form of a retainer member 27, described herein, having a body which is adapted to hold a plant within the container 22 for growth out of the side or

bottom of the container 22. In connection with the foregoing, each retainer member 27 is used with a corresponding plant for supporting the plant for growth out the side or bottom of the container 22 through the grow ports 26 or 36.

3

With reference to FIG. 2, there is illustrated an example of 5 a plant 28 which is capable of being transplanted within the container 22 of the planter 20 for continued growth therein. The depicted plant 28 includes a root system 30 (which commonly is encased in an amount, or ball, of dirt) and a stem 32 which extends from the root system 30. As will be apparent 10 herein and in order to transplant the plant 28 through one of the planter grow ports 26 or 36, described herein, the plant 28 is directed root system-first into the grow port 26 or 36 until the root system 30 is completely moved through, or clears, the retainer member 27 and is positioned within the interior of the 15 container 22. The retainer member 27 thereafter prevents the withdrawal of the root system 30 from the grow port 26 or 36 so that the plant 28 is in a secured condition within the grow port 26 or 36 while the plant stem 32 either extends laterally, or outwardly to the side, of the sidewall of the container 22 20 through a side grow port 26 or extends downwardly of the container 22 through the bottom grow port 36. With the plant 28 secured within the container 22 in this manner, the planter 20 accommodates the continued growth of the plant 28 while its stem 32 extends through the side grow port 26 or the 25 bottom grow port 36.

With reference again to FIG. 1, the container 22 is in the form of an elongate bag 40 constructed, for example, of a flexible plastic material whose bottom and sidewalls provide the bottom 42 and sidewalls 44 of the container 22 and which, 30 when filled with dirt or potting soil to the expanded condition. as depicted in FIG. 1, provides the bag 40 with a substantially cylindrical form. To help preserve the cylindrical form of the bag 40 when filled with dirt or potting soil, a stiff, circular plate 46 (FIG. 1) having a center opening 47 can be positioned 35 within the bottom 42 of the bag 40 so that the center opening 47 is aligned with the bottom grow port 36. Defined along the sidewalls 44 are a plurality of circular openings 48 (FIG. 3) which provide the side grow ports 26 and which provide access to the interior of the bag 40 through the sidewalls 44 thereof, and there is defined within the bottom 42 a circular opening 49 (FIG. 1) which provides the bottom grow port 36 which provides access to the interior of the bag 40 through the bottom 42 thereof.

Within the bag 40 of the depicted container 22, there are 45 defined twenty-one sidewall openings, or side grow ports 26, which are regularly disposed about the bag sidewalls 44 and there is defined one bottom opening, or bottom grow port 36 disposed centrally therein. It will be understood, however, that a planter which embodies features of the present invention can include an alternative number of side or bottom grow ports 26 or 36.

Furthermore, it will also be understood that although the depicted container 22 has substantially vertically-disposed sidewalls 44 within which the grow ports 21 are positioned 55 and a horizontally-disposed bottom within which the grow port 26 is positioned, a grow port in accordance with the broader aspects of this invention can be incorporated within a sidewall of a container which is not vertically-oriented or in a bottom which is not horizontally-oriented. Accordingly and 60 as used herein, the terms "side", "sidewall" and "bottom" of a container are intended to include every surface of a container in which a grow port which possesses the features described herein can be incorporated, and the principles of this invention can be variously applied.

As best shown in FIGS. 3, 4 and 8, there is associated with each grow port 26 or 36 a retainer member 27 whose body has

4

been attached (e.g. sewn) to the sidewalls 44 or bottom 42 so as to substantially cover a grow port 26 or 36 defined therein. To this end and as exemplified in the FIG. 3 view, each retainer member 27 is comprised of a relatively flat piece 54 of resiliently flexible material having a circular periphery, or outer (i.e. circumferential) edge, 57 and the retainer member 27 is attached (e.g. sewn) to the sidewalls 44 or bottom 42 with stitches 50 which extend along a path adjacent the circular periphery 57 of the member 27. Furthermore, each retainer member 27 is secured to the container 22 about a corresponding grow port 26 or 36 so that one side, or the interior side, face of the retainer member 27 faces the interior of the container 22 while the opposite side, or the exterior side, face of the retainer member 27 faces exterior of the container 22.

Moreover and as will be apparent herein, each retainer member 27 defines an expandable opening, indicated 19 in FIG. 3, which is adapted to be moved between an expanded condition and a normally-collapsed condition so that by urging a transplantable plant 28 root system-first against the plant retainer member 27 from the exterior of the container 22, the expandable opening 19 is moved to an expanded condition from a normally-collapsed condition to permit the plant root system 30 to pass through the expandable opening 19 into the container interior and so that upon passage of the root system 30 through the expandable opening 19, the expandable opening is permitted to return toward its normally-collapsed condition about the stem 32 of the transplantable plant 28 to thereby prevent the withdrawal of the root system 30 of the plant 28 through the plant retainer member 27 from the container interior.

Within the depicted planter 20, each retainer member 27 includes a peripheral portion 51 disposed adjacent the periphery 57 of the retainer member 27 and plurality of finger portions 52 which are integrally joined with and extend inwardly (e.g. radially-inwardly) of the peripheral portion 51 of the retaining member 27 to a tip 59. As best shown in FIG. 3, each finger portion 52 is in the form of a elongated, wedgeshaped section having a larger end which is disposed adjacent the peripheral portion 51 and a smaller end, or tip, disposed adjacent the center of the member 27 and opposite side edges which converge toward one another as a path is traced from the larger end of the finger portion 52 toward the smaller end thereof.

The material out of which the retainer member 27 is formed is preferably a plastic material, such as a thin vinyl material, and the member 27 is severed along substantially straight paths 56 (see FIG. 3) to provide each finger portion 52 with a substantially V or wedge-shaped appearance. Each finger portion 52 includes a free, or unattached, end section 58 which, because of its flexible nature, can be flexed inwardly of the bag 40 from an undeformed (i.e. unflexed), planar condition (as is illustrated, for example, in solid lines in FIGS. 4 and 8) to a flexed condition (as is illustrated, for example, in phantom in FIGS. 4 and 8) and is permitted to return from its flexed condition, under the influence of its inherent resiliency, toward its undeformed condition. Each retainer member 27 of the depicted planter 20 is provided by eight finger portions 52, although an alternative number of finger portions 52 (e.g. three) can be had, and each end section 58 terminates at the tip 59 (rounded in shape) adjacent the center of the retainer member 27.

It follows, therefore, that the finger portions 52 collectively provide the expandable opening 19 for the member 27 which is substantially closed when the finger portions 56 are in their undeformed (i.e. unflexed), planar condition (as is illustrated, for example, in solid lines in FIGS. 4 and 8) and is expandable

tainer interior.

4

to provide a substantially larger opening as the finger portions 56 are urged (i.e. moved) from the planar, or unflexed, condition to the flexed condition (as is illustrated, for example, in phantom in FIGS. 4 and 8). Furthermore and due to the inherent resiliency of the retainer member 27, the finger 5 members 56 are continually biased from the flexed condition toward the unflexed condition.

With reference again to FIG. 1, the planter 20 further includes means for cooperating with the hanger assembly 24 with which the container 22 can be suspended from an 10 elevated support so that the planter 20 is rendered as a hanging planter. To this end, the container 22 includes an upper ring 62 which is sewn into the upper edge of the bag 40, and the bag 40 has a plurality of (e.g. three) notches 80 which are spaced about the upper end of the container 22 which provide access 15 to the ring 62. The hanger assembly 24 is attachable to the ring 62 of the container 22 by way of the notches 80 for suspension of the container 22 from an elevated support (not shown). In this connection, the hanger assembly 24 includes a plurality of (e.g. three) cable members 84 which are joined together at 20 one end thereof (i.e. the upper end as seen in FIG. 1) by way of a ring-bearing swivel 86 which is adapted to be be looped about a hook (not shown) or similar fastener joined to the elevated support for suspension of the container 22 therefrom. To attach the ends of the cable members 84 (i.e. the cable ends 25 opposite the swivel end thereof) to the container 22, each cable end is passed through a corresponding notch 80, looped around the ring 62 and then attached to itself with a clamp 88. With the cable members 84 attached to the ring 62 in this manner, the container bag 40 can be suspended by the cable 30 members 84 and swivel 86.

The planter 20 also includes a decorative rim member 92, best shown in FIG. 1, which is positionable atop the container 22 and which supports a top member 94. The rim member 92 is formed in the shape of a ring and is adapted to rest along the 35 upper edge of the container 22 as the planter 20 is suspended from an elevated support. In the depicted planter 20, the cable members 84 of the cable system 82 are intended to pass through preformed holes 96 provided in the top of the rim member 92 to help secure the rim member 92 in place atop the 40 container 22 during use of the planter 20. In this connection, the ends of the cable members 84 (i.e. the cable member ends opposite the swivel-end) are each routed through a corresponding preformed hole 96 before being attached to the ring 62 sewn within the bag 40 for attachment thereto.

The top member 94, introduced above, of the planter 20 serves as a cover for the bag 40 and provides an access port through which water and fertilizer (i.e. liquid or granular) can be introduced into the top of the container 22. In this connection, the top member 94 includes a central, funnel-shaped section 98 for funneling water and fertilizer poured downwardly to a central opening 99. Furthermore, the top member 94 includes an outer edge 100 which can be accepted by the interior of the rim member 92 for support of the top member 96 atop the rim member 92.

It will be understood that water or fertilizer which is desired to be directed into the planter 20 for the purposes of watering and feeding the plants grown within the container 22 is poured into the funnel-shaped section 98 of the top member 94 and is thereafter permitted to flow downwardly into the dirt or potting soil contained within the container 22 by way of the central opening 99 of the top member 94.

To transplant a plant 28 into the bottom grow port 36 of the planter 20, a plant 28 is grasped by the stem 32 (as illustrated in FIG. 5) and directed root-end-first upwardly through the 65 center of the grow port 36 until the root system 30 moves past and thereby clears the tips 59 of the end sections 58 of the

finger portions 52 of the retainer member 27 associated with the grow port 36. It will be understood that as the root system 30 of the plant 28 is urged against the finger portions 52, the finger portions 52 or, more specifically, the end sections 58 thereof, are permitted to flex inwardly of the container 22 (from the FIG. 4 unflexed condition) to expand the size of the expandable opening 19 and to thereby accommodate the movement, or passage, of the root system 30 into the con-

After the root system 30 of the plant 28 is moved far enough into the interior of the bag 40 (i.e. past the tips 59), the finger portions 52 (due to the inherent resiliency of the finger portions 52) are permitted to spring back toward the relaxed, or unflexed, condition, as illustrated in FIG. 7, at which the tips 59 of the finger portions 52 are permitted to contact and bear against the stem 32 of the plant 28. With the finger portions 52 in contact with the plant stem 32 as depicted in the FIG. 7 condition, the finger portions 52 are arcuate in shape, rather than perfectly flat, as a path is traced radially outwardly along the finger portions 52 from the tips 59 thereof.

If desired and following the return of the finger portions 52 toward the FIG. 7 condition, it may be desirable that the stem 32 be pulled outwardly of the container 22 a short distance to move the root system 30 closer to, or even into contact with, the inwardly-facing sides of the finger portions 52 and to thereby position most of the plant stem 32 external of the container 22. If such a movement of the stem 32 is desired, it may be necessary to manually spread the finger portions 52 apart (to thereby relieve pressure upon the plant stem 32 by the tips 59) and manually pull the stem 32 outwardly through the grow port 36 by a short distance to a desired position of rest before releasing the finger portions 52 from the spreadapart condition. Because the tips 59 of the finger portions 52 are rounded, no damage to the plant 28 is likely to result as a consequence of the contact between the tips 59 of the finger portions 52 and the stem 32.

With the finger portions 52 positioned about and in contact with the plant stem 32 when in the arcuate condition illustrated in FIG. 7, the finger portions 56 resist further movement of the tips 59 toward the planar condition of FIG. 4. Such a resistance to movement of the root system 30 out of the container interior through the retainer 27 is believed to be due, at least in part, to the fact that forces which must be exerted upon the plant 28 to urge the root system 30 outwardly through the retainer member 27 are exerted upon the finger portions 52 (by way of the root system 30 or stem 32) as forces which tend to compress the finger portions 52 along the length thereof (i.e. radially outwardly along the finger portions 52 from the tips 59 thereof).

In other words and although the finger portions 52 can be moved (i.e. flexed) with relative ease from the FIG. 4 planar condition toward the FIG. 6 solid-line condition during which forces are urged along paths which are substantially normal to the exterior face of the retainer member 27, forces which tend to compress the finger portions 52 along the length thereof (i.e. in a radially-outward direction from the tips 59 thereof) are resisted by the finger members 52. Consequently and because the finger members 52 resist forces of a compressive nature which would be required to move the finger members 52 from the FIG. 7 arcuate condition toward (and past) the perfectly flat condition depicted in solid lines of FIG. 4, the finger members 52 resist the withdrawal of the plant root system 30 through the retainer member 27 from the container interior and thereby hold the plant 28 in place through the bottom grow port 36 with little likelihood that the plant 28 will fall out of the port 36. Thus, the retainer member 27 operates to permit the plant root system 30 to be passed with

-

relative ease in one direction through the retainer member 27 (i.e. from the exterior of the container 22 to the interior thereof) but, upon passage of the root system 20 through the retainer member 27 into the container interior, resists the withdrawal of the root system 27 out of the container interior 5 through the retainer member 27.

Once the plant 28 is positioned in place within the grow port 36 as aforedescribed, dirt or suitable potting soil, indicated 120 in FIG. 7, can be thereafter placed into the container 22 and positioned (e.g. loosely packed) about the root system 10 30 of the plant 28 (as illustrated in FIG. 7) so that the added dirt or potting soil 120 is positioned about, and thereafter contributes further to the support of the plant 28 within the container 22.

With reference to FIGS. 9 to 12 and to transplant a fplant 15 28a (whose stem 32a and root system 30a are identical with the stem 32 and root system 30, respectively, of the plant 28 of FIG. 2) into a side grow port 26 of the planter 20, dirt or suitable potting soil, indicated 120 in FIG. 9, is placed within the container 22 of the planter 20 until the horizontal level of 20 the dirt or potting soil placed within the planter 20 reaches to about the horizontal level of the lower edge of a side grow port 26. It follows that if a plant 28a is desired to be transplanted through each side grow port 26 of the planter 20, then the dirt or potting soil 120 is first placed within the container 22 only 25 until it reaches to about the level of the lower edge of the lowermost side grow port 26. At that point, a plant 28a is grasped by the stem 32 (as illustrated in FIG. 9) and directed root-end-first through the center of the lowermost side grow port 26 until the root system 30a clears the tips 59 of the finger 30 portions 52 of the retainer member 27 surrounding the side opening associated with the side grow port 26. It will be understood that as the root system 30a of the plant 28a is urged against the finger portions 52, the finger portions 52 are permitted to flex inwardly of the container 22 to accommo- 35 date the passage of the root system 30a through the expanded opening 19 of the retainer member 27. After the root system 30 of the plant 28 moves far enough into the interior of the bag 40 to clear the tips 59 of the finger portions 52, the finger portions 52 are permitted to spring back toward the relaxed, or 40 unflexed, condition, as illustrated in FIG. 11, at which the tips 59 of the finger portions 52 are permitted to contact and bear against the stem 32a of the plant 28a. Because the tips 59 of the finger portions 52 are rounded, no damage is likely to result to the plant 28a from its contact with the tips 58 of the 45 finger portions 52.

The aforediscussed reasons that the finger portions 52 resist withdrawal of the plant root system 30 through the bottom grow port 36 apply to the side grow ports 26 as well. In other words and as best viewed in FIG. 11, with the finger 50 portions 52 positioned about and in contact with the plant stem 32, the finger portions 52 assume an arcuate condition so that any forces which might be exerted upon the plant 28a to urge the root system 30a outwardly through the retainer member opening 19 tend to compress the finger portions 52 (by 55 way of the root system 30a or stem 32a) along the length thereof (i.e. radially outwardly along the finger portions 52 from the tips 59 thereof). Consequently and because the finger members 52 resist forces of a compressive nature which would be required to move the finger members 52 from the 60 FIG. 11 arcuate condition toward (and past) the perfectly flat condition depicted in FIG. 8, the finger members 52 resist the withdrawal of the plant root system 30a from the container interior through a side grow port 26 and thereby hold the plant 28a in place through the side grow port 36.

Once the plant 28a is held in place through the grow port 26, the user can release the stem 32a of the plant 28a and the

container 22 can continue to be filled with dirt or suitable potting soil. More specifically, dirt or suitable potting soil 120 can thereafter be placed into the container 22 (as illustrated in FIG. 12) and positioned about the root system 30a of the plant 28a so that the added dirt or potting soil 120 contributes further to the support of the plant 28a within the container 22. The aforedescribed steps of placing dirt or potting soil 120 into the container 22 to about the (horizontal) level of the next-highest side grow port 26, directing a plant 28a rootend-first through the grow port 26, so that the finger portions 52 hold the plant 28 within the grow port 26, and then placing dirt or potting soil 120 around the root system 30a of the plant 28a being transplanted are repeated, as necessary or as desired, until a plant 28a is positioned within each side grow

As a retained plant is permitted to grow within its container and its stem increases in diameter, the tips 59 of the fingers portions 52 are permitted to flex outwardly to accommodate the increase in size of the plant stem. Thus, the plant retaining means 18 associated with the aforedescribed grow ports 26 or 36 is not believed to retard or harm the growth of the plant as, for example, its stem enlarges, and the plant retaining means 18 is further advantageous in this respect.

port 26 for growth out of the sides of the container 22. Addi-

tional potting soil 120 can thereafter be positioned within the

interior of the container 22 to fill any vacant space remaining

It will be understood that numerous modifications and substitutions can be had to the aforedescribed embodiment 20 without departing from the spirit of the invention. For example, although the aforedescribed planter 20 has been shown and described as including grow ports 26, 36 in the sidewalls and bottom of the container 22, it will be understood that alternative embodiments of this invention may include grow ports in only the sidewalls thereof or may include grow ports in only the bottom thereof. Furthermore, there are illustrated in FIGS. 13 and 14 alternative embodiments of containers of various shapes and sizes and which incorporate features of the present invention. In particular, there is depicted in FIG. 13 a container 140 having eight grow ports 142 (only four shown in FIG. 13) defined in the sidewalls thereof wherein the grow ports 142 are arranged in two rows around the container 140, and each grow port 142 of the top row is vertically disposed above a grow port 142 of the bottom row. Furthermore, there is depicted in FIG. 14, a container 150 having eight grow ports 152 (only four shown in FIG. 14) defined in the sidewalls thereof wherein the grow ports 152 are arranged in two rows around the container 140, and each grow port 152 of the top row is vertically staggered with respect to the grow ports 152 of the bottom port 152.

Still further and by way of example, there is illustrated in FIG. 15 an alternative container 220 embodying features of the present invention and including a grow port 226 having a diameter of about 3.0 inches and a circular retainer member 227 associated with, or covering, the grow port 226. The retainer member 227 includes eight finger portions 252 regularly spaced therearound, and each finger portion 252 is spaced from its adjacent finger portion 252 by a gap 230 having a width of about 0.105 inches. The overall diameter of the retainer member 227 is about 3.75 inches, and each gap 230 as measured across the retainer 227 is about 3.212 inches in length. In addition, the central opening of the retainer member 227 as defined between the tips 259 of the finger portions 252 (when in a relaxed, or unflexed, condition), is about 0.727 inches in diameter. Still further, the retainer member 227 is comprised of Vinyl and has a thickness of about 0.025 inches. It will be understood, however, that

(

retainer members of alternative sizes (i.e. having a diameter, for example, between about one inches and about five inches) can be had.

Further still, although the retainer members 27 of the afore-described embodiments have been shown and described as being formed from relatively thin pieces of sheet material, the retainer members may take alternative forms. For example, a retainer member in accordance with this invention can be formed as a molded element which provides the retainer member with a substantial thickness.

Yet still further, although the retainer members 27 of the aforedescribed embodiments have been shown and described as separately-identifiable components which have been joined to the container of a planter so as to substantially cover 15 the grow ports provided therein, a retainer member in accordance with the broader interests of the present invention can be integrally formed as part of the container. For example, there is illustrated in FIG. 16 a planter 320 having a container 322 provided with a bottom 342 and sidewalls 344, and there are associated with the sidewalls 344 plant retaining sections, indicated 327, wherein each section 327 provides both a side grow port and an expandable opening 319 through which a plant can be transplanted into the container 322.

In the FIG. 16 embodiment 320, each retaining section 327 is incorporated within the sidewalls 344 of the container 322 and includes a plurality of wedge-shaped finger portions 352 having small ends, or tips, which extend inwardly (e.g. radially inwardly) of the retaining section 327 from an outer 30 periphery of the retaining section 322. The material comprising the sidewalls 344 provides the finger portions 352 with a sufficient degree of resiliency and flexibility so that by urging a plant root-system first against the center of a retaining section 322 from the exterior of the container 322, the finger 35 portions 352 which define the expandable opening 319 are splayed, or moved, to a flexed condition from a normallycollapsed (e.g. planar) condition to permit the root system to pass through the expandable opening 319 into the container interior and so that upon passage of the root system through the expandable opening 319, the flexed finger portions 352 are permitted to return toward the normally-collapsed condition about the stem of the transplantable plant to thereby prevent the withdrawal of the root system of the plant through the retaining section 327 from the container interior.

Moreover and although each retainer member 27 of the aforedescribed embodiment of FIGS. 1 and 3-12 has been shown and described as having a circular outer edge, retainer members can take any of a number of alternative shapes in 50 accordance with the broader aspects of the present invention. For example, there is illustrated in FIG. 17 a triangularshaped retainer member 350 which can be attached to a sidewall or bottom of a container 352 so as to substantially cover a triangular-shaped grow port 356 provided therein, and there 55 is illustrated in FIG. 18 a square-shaped retainer member 360 which can be attached to a sidewall or bottom of a container 362 so as to substantially cover a square-shaped grow port 366 provided therein. In the retainer member 350 of the FIG. 17 embodiment, there are provided three finger members 358 whose tips are directed inwardly of the member 350 from the three side edges thereof, and in the retainer member 360 of the FIG. 18 embodiment, there are provided four finger members 368 whose tips are directed inwardly of the member 360 from the four side edges thereof.

Accordingly, the aforedescribed embodiments are intended for the purpose of illustration and not as limitation.

10

The invention claimed is:

- 1. A planter for growing a transplantable plant having a root system and a stem which extends from the root system, the planter comprising:
  - a container having an interior, an upper end, a lower end, and a sidewall extending between the upper and lower ends, and a bottom, at least one of the sidewall and the bottom defining a grow port opening therein; and
  - a retainer member for retaining a plant desired to be transplanted within the container through the grow port, the retainer member including a piece of resiliently flexible sheet material having an outer circumferential edge and being joined to the at least one of the sidewall and the bottom so as to substantially cover the grow port opening defined therein, and the retainer member further includes finger portions which are directed substantially inwardly of the outer edge of the piece of sheet material and which permit the root system of a plant desired to be transplanted within the planter to be inserted through the grow port opening yet prevent the withdrawal of the root system from the container interior through the grow port opening so that the plant is thereby supported within the container for growth of the plant stem outwardly of the container through the grow port.
- 2. The planter as defined in claim 1 wherein the outer circumferential edge of the piece of sheet material surrounds the grow port opening, and each of the finger portions have tips which are biased substantially inwardly of the outer circumferential edge of the piece of sheet material, and the flexibility of the finger portions permit the finger portions to be moved from a unflexed condition at which the tips of the finger portions are substantially co-planar with one another and a flexed condition at which the tips of the finger portions are disposed at least partly within the interior of the container to accommodate the insertion of the root system of the plant into the container through the grow port as the finger portions are permitted to flex between the unflexed and flexed condition and so that upon movement of the plant root system past the tips of the finger portions during insertion of the plant root system into the container through the grow port opening, the finger portions are permitted to return toward the unflexed condition and into contact with the stem of the plant.
- 3. The planter as defined in claim 2, wherein each of the finger portions is relatively flat when in its unflexed condition and has side edges which converge toward one another as a path is traced toward the tip of the finger portion.
- 4. The planter as defined in claim 2 wherein the finger portions are regularly spaced about the outer circumferential edge of the piece of sheet material.
- 5. A plant retainer for a planter in which a transplantable plant having a stem and a root system is desired to be transplanted for growth and wherein the planter includes a container defining a sidewall and a bottom and an interior and wherein at least one of the sidewall and the bottom has a grow port defining an opening therein, the plant retainer comprising:
  - a plant retaining body which is attachable to the planter so as to substantially cover the grow port opening defined therein and having an expandable opening which is movable between an expanded condition and a normally-collapsed condition so that by urging a transplantable plant root system-first against the plant retaining body from the exterior of the container, the expandable opening is moved to an expanded condition from its

11

normally-collapsed condition to permit the root system to pass through the expandable opening into the container interior and so that upon passage of the root system through the expandable opening, the expandable opening is permitted to return toward its normally-collapsed condition about the stem of the transplantable

**12** 

plant to thereby prevent the withdrawal of the root system of the plant through the plant retaining body from the container interior.