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JAMES M. GREEN, CECIL M. GREEN,
RITA M. GREEN
UNITED STATES DISTRICT COURT FOR THE CENTRAL DISTRICT OF CALIFORNIA WESTERN DIVISION

JAMES M. GREEN, CECIL M. GREEN, and RITA M. GREEN,

Plaintiffs,
v.

MONROVIA NURSERY COMPANY, a California corporation,

Defendant.

Case No.

## COMPLAINT FOR:

(1) BREACH OF CONTRACT;
(2) PATENT

INFRINGEMENT; AND
(3)DECLARATORY JUDGMENT OF INVALIDITY

## JURY TRIAL DEMANDED

Dept:
Judge:
Trial Date: None set

REDACTED VERSION OF DOCUMENT PROPOSED TO BE FILED UNDER SEAL

Plaintiffs James M. Green, Cecil M. Green, and Rita M. Green (collectively the "Greens"), by and through their attorneys, for their Complaint against Defendant Monrovia Nursery Company ("Monrovia"), allege as follows:

## PRELIMINARY STATEMENT

1. This is an action for breach of a contract that is governed by California state law, and involves the payment of royalties and ownership of United States Patent No. 6,300,547 (the " 547 Patent") and United States Plant Patent No. PP11,787 (the ""787 Patent").
2. This is also an action for infringement of the ' 547 Patent under the Patent Act, 35 U.S.C. § 271, and the ' 787 Patent under 35 U.S.C. § 163, based on Monrovia's unauthorized commercial and asexual reproduction, use, importation, offer for sale, and sale of double flowering mandevillas, or parts thereof, in the United States.
3. This is also an action for a declaratory judgment, arising under the Declaratory Judgment Act, 28 U.S.C. §§ 2201-2202, that United States Plant Patent No. PP14,290, owned by Monrovia, is invalid.

## PARTIES

4. Plaintiffs, the Greens, are individuals who have an address at 5000 S.R. 544 East, Haines City, Florida, and are residents and citizens of the state of Florida.
5. Upon information and belief, Defendant, Monrovia, is a corporation that is incorporated in California, and has its principal place of business at 817 E . Monrovia Place, Azusa, California 91702.

## JURISDICTION

6. This court has original jurisdiction over the subject matter of this action pursuant to 28 U.S.C. §1332, because the matter in controversy exceeds the sum or value of $\$ 75,000$, exclusive of interest and costs, and is between citizens of different states. pursuant to 28 U.S.C. $\S \S 1331$ and 1338(a).
7. This court has supplemental jurisdiction over the subject matter of count 1 pursuant to 28 U.S.C. § 1367.
8. This court has original jurisdiction over the subject matter of count 4 of this action pursuant to 28 U.S.C. § 2201 and 2202.
9. Personal jurisdiction over Defendant is proper in this District because it is incorporated in California, and has its principal business location in and systematic and continuous business contacts in this judicial district.

## VENUE

11. Venue is proper in this district under the choice of law and venue designated in the contract between the Greens and Monrovia for resolution for any disputes involving the contract. Ex. 1, p. 8, $\mathbb{1} 18$.
12. Venue is further proper in this district under 28 U.S.C. $\S \S 1391$ (b) and 1400(b) because Monrovia is a corporation of California subject to personal jurisdiction in this judicial district, and has directed its business activities at this judicial district, and a substantial part of the events giving rise to the claims occurred in this judicial district.

## FACTS

13. The Greens are citrus farmers in central Florida and have a nursery where they propagate and asexually reproduce (i.e. clone) plants for sales to other nurseries and the public.
14. In their nursery, the Greens propagate mandevilla vines, which are decorative plants. Mandevilla vines have flower blooms that are typically pink, but can appear in other colors. Prior to 1996, mandevillas bloomed flowers having a single corolla, or "ring" of petals.
15. In about 1996, the Greens recognized a double-flowering mandevilla trait in one of their plants and began to isolate and propagate it. They named the new
mandevilla plant variety 'Rita Marie Green,' which is a genetic variant of another mandevilla named Alice du Pont that never before exhibited double flowers--that is, where the vine bloomed flowers having double corollas of petals.
16. The Greens then stabilized the double-flowering trait in the Rita Marie Green variety by successive propagations of the plant and approached Monrovia, which is the largest plant nursery in the world, about selling the Rita Maria Green variety.
17. The negotiations between the Greens and Monrovia ultimately led to a licensing Agreement signed between the Greens and Monrovia on September 10, 1998. Ex. 1 hereto [FILED UNDER SEAL].
18. 

 Ex. 1, p 2, 『13.
19. The Agreement specifies that "Green[s] shall own all rights to the genetics of the [Rita Marie Green] Variety, including, but not limited to, any sport or genetic alterat i propagated in any way from plants, sports, or otherwise from the Variety ("Sport") that is discovered by either party." Ex. 1, p. 5, $\uparrow 8$.
20. The Agreement required that Monrovia assist the Greens in seeking both utility and plant patent protection for the Rita Marie Green variety, and once patent protection was obtained, that the patents would be assigned to Monrovia, and the Agreement would last for the term of any patent. Ex. 1, p. 3, $\mathbb{T} 4$.
21. The Rita Marie Green variety was subsequently patented and covered in Patent No. 6,300,547, (Ex. 2) which issued on October 9, 2001, and will expire on August 20. 2018: and US Plant Patent No. PP11,787, (Ex. 3) which will also expire on August 20, 2018.
22. Monrovia sells the Rita Marie Green variety as the "PINK PARFAIT®," which is a federally registered trademark, and commenced propagation and commercial sales thereof after execution of the Agreement.
23. Monrovia is the assignee of the ' 547 patent and ' 787 patent, but the Agreement contains a reverter such that ownership of the ' 547 patent and ' 787 patent transfers back to the Greens should Monrovia breach the Agreement. See Ex. 1, p. 5, - 16.
24. Because of the in-force patent term, the Agreement remains in force until August 20, 2018, unless breached by one of the parties.
25. From 1997-1999, the Greens sent Rita Marie Green plant cuttings to the California nursey of Monrovia for propagation.
26. After receipt of the Rita Marie Green cuttings from the Greens, and patenting of the Rita Marie Green variety, Monrovia claimed that it identified a new variety of double-flowering mandevilla, called "Monrey," in 2001. Monrovia patented their Monrey variety as US Plant Patent No. PP14,290 (the "'290 patent") (Ex. 4).
27. In the patent application, Monrovia claimed that Monrey was discovered from another plant "Monite," which is a sport of "Alice du Pont." See Ex. 4, Col. 1. Thus, Rita Marie Green would be an "aunt" to Monrey if this statement is true, and consequently, is highly genetically similar.
28. At some point thereafter, Monrovia started selling its Monrey variety under the name "TANGO TWIRL®."
29. Munrovia stated to the Greens that because the Monrey variety was independently discovered from its "Monite" variety, Monrey was not a plant that fell under the Agreement and no royalties were payable for Monrovia's sales of it.
30. B rause the Rita Marie Green variety and the Monrey variety share the same unique trait of double flowers with two corollas of petals, the Greens have been suspicious that, as sold by Monrovia, PINK PARFAIT (Rita Marie Green) is genetically related to or the same as the TANGO TWIRL (Monrey).
31. The Greens consulted several experts in attempted to have a genetic comparison done between the Rita Marie Green variety and Monrey variety, but
learned from expert consultation that if the stated lineage of the mandevilla plants was correct and the varieties were cousins based on Alice du Pont, or if even closer related, a•genetic comparison would be impossible without knowing the specific gene(s) responsible for the double flowering trait. The specific gene(s) for this trait are unknown.
32. Without direct genetic comparison to determine relatedness of the Rita Marie Green variety and Monrey variety, the Greens consulted a world-renowned plant developmental biologist as an expert to determine the possibility of relatedness here based upon mathematical analysis of trait expression of the double flower.
33. Based upon his review of the literature on mandevillas and trait expression, as well as other relevant scientific literature and the relevant patents themselves, the expert opines that is it almost mathematically certain that Monrey is either identical to Rita Marie Green or genetically derived therefrom.
34. Based upon the expert's opinion, the Greens invoked the notice of breach provision of the Agreement (Ex. 1, p. 7, 『16) and sent a letter on April 12, 2017, demanding that Monrovia pay the Greens a royalty for sales of Monrey as those sales fall under the Agreement. The Greens also demanded an inspection of the records for sales of both the Rita Marie Green variety and Monrey variety, which the Greens are entitled to under the Agreement. Ex. 1, p. 5, $\uparrow 9$.
35. Monrovia did not respond to the notice of breach within 60 days, make any payment of past royalties, or permit the Greens to inspect the sales records.
36. The Agreement provides that "[i]n the event that a suit or action is instituted by either of the parties hereto to enforce the terms or on account of any breach of the terms of this Agreement, the prevailing party shall be entitled to reasonable attorney fees in such suit or action." Ex. 1, p. 8, 『19.

## COUNT ONE

## (Breach of Contract-California Law)

37. Plaintiffs repeat and reallege Paragraphs 1 through 36 hereof, as if fully
set forth herein.
38. The Agreement is a valid and enforceable contract between the Greens and Monrovia.
39. The Greens have fully performed or tendered all performance required under the Agreement.
40. Monrovia has breached its obligations to the Greens as set forth in the Agreement by failing to pay the Greens the requisite royalties for sales of the Monrey variety by Monrovia.
41. Monrovia has also breached its obligations to the Greens as set forth in the Agreement by failing to allow inspection by the Greens of all records and books regarding the sales of the Rita Marie Green variety and Monrey variety by Monrovia.
42. Monrovia has also breached the implied covenant of good faith and fair dealing by acting to deprive the Greens of the benefit of the royalties from sales of the Rita Maric Green variety by falsely claiming that the Monrey variety was not related to the Rita Marie Green variety and did not constitute sales under the Agreenıent for which royalties were payable.
43. As a result of Monrovia's breaches of the agreement, the Greens have incurred damages.

## COUNT TWO

## (Infringement of the '547 Patent)

44. Plaintiffs repeat and reallege paragraphs 1 through 43 hereof, as if fully set forth herein.
45. Due to Monrovia's breach of the Agreement, the ownership of the ' 547 patent has reverted to the Greens.
46. Montovia has been and is infringing the ' 547 Patent by commercially reproducing, using, selling, or offering for sale in the United States, or importing into the United States, including within this judicial district, double-flowering mandevilla plants sold under the names PINK PARFAIT and TANGO TWIRL, in violation of

35 U.S.C. § 271(a).
47. Monrovia's infringement has been, and continues to be knowing, intentional, and willful.
48. Monrovia's acts of infringement of the ' 547 Patent have caused and will continue to cause the Greens immediate and irreparable harm unless such infringing activities are enjoined by this Court.

## COUNT THREE

## (Infringement of the '787 Patent)

49. Plaintiffs repeat and reallege Paragraphs 1 through 48 hereof, as if fully set forth herein.
50. Due to Monrovia's breach of the Agreement, the ownership of the ' 787 patent has reverted to the Greens.
51. Monrovia has been and is infringing the ' 787 Patent by asexually reproducing the plant, using, offering for sale, and selling the plant so reproduced, and/or any of its parts, in the United States, or importing into the United States, including within this judicial district, double-flowering mandevilla plants sold under the names PINK PARFAIT and TANGO TWIRL, and/or any parts thereof, in violation of 35 U.S.C. § 163.
52. Monrcvia's infringement has been, and continues to be knowing, intentional, and willful.
53. Monrovia's acts of infringement of the ' 787 Patent have caused and will continue to cause the Greens immediate and irreparable harm unless such infringing activities are enjoined by this Court.

## COUNT FOUR

(Deciaratory Judgment of Invalidity of the ' $\mathbf{2 9 0}$ Patent)
54. Plaintiffs repeats and reallege Paragraphs 1 through 53 hereof, as if fully set forth herein.
55. Monrovia owns United States Plant Patent Number PP14,290, entitled

MANDEVILLA PLANT NAMED 'MONREY', names Bruce Usury as the inventor, with an issue date of November 11, 2003. Attached as Exhibit 4 is a copy of ' 290 Patent.
56. The '290 Patent is directed to "a distinct cultivar of Mandevilla plant named 'Monrey', characterized by its vining growth habit; glossy, dark green leaves; and large double pink-colored flowers with 20 petals per flower." Ex. 4, Abstract.
57. On information and belief, Monrovia is the owner of all right, title and interest in the ' 290 Patent.
58. Monrovia sells a double flowering Mandevilla under the trademark TANGO TWIRL®, stating that the plant is of the varietal name of "Monrey," and that the plant is purportedly protected by the ' 290 Patent.
59. The ' 290 Patent states, with respect to its claimed plant, that " $[t]$ he new Mandevilla is a naturally-occurring branch mutation of the Mandevilla×amabilis cultivar Monite, disclosed in U.S. Plant Pat. No. 12,123. The new Mandevilla was discovered and selected by the Inventor on Jun. 29, 2001 in a controlled environment in Azusa, Calif., vithin a population of plants of the cultivar Monite." Ex. 4, Col. 1, Lines 9-14.
60. At least in 1999, the Greens delivered cuttings of the Rita Marie Green variety to Monrovia at their California facility.
61. Upon information and belief, Monrovia was propagating the Rita Marie Green vaticty at its Azusa California facility when the Monrey variety was purportedly discovered by Usury.
62. Based upon the mathematical probability of a second appearance of a heritable and observable double flowering trait with known mutation rates of mandevillas, the Monrey variety is either derived from or the same as the Rita Marie Green variety.
63. The ' 290 Patent states an incorrect parentage of the claimed plant and is therefore invalid.
64. Monrovia marks the TANGO TWIRL plant as covered under the ' 290 Patent, when in fact, that patent is invalid, and the TANGO TWIRL is actually covered under the " 547 Patent and ' 787 Patent.
65. Based on the foregoing, a justiciable controversy exists between the Greens and Monrovia as to whether the claim of the ' 290 Patent is valid. Accordingly, there is an actual controversy within the jurisdiction of this Court under 28 U.S.C. §§ 2201 and 2202, related to the validity of the ' 290 Patent.
66. As a result of the acts described in the preceding paragraphs, there exists a controversy of sufficient immediacy and reality to warrant the issuance of a declaratory judgment of invalidity of the ' 290 Patent.
67. A judicial declaration is necessary and appropriate so that the Greens may ascertain tle patent rights regarding the TANGO TWIRL.

## PRAYER FOR RELIEF

WHEREFORE, the Greens request judgment against Monrovia as follows:
A. That Monrovia breached the Agreement and account for and pay damages to the Greens for royalties from sales of the TANGO TWIRL and PINK PARFAIT;
B. That the Greens are entitled to their reasonable attorneys' fees for this action due to Monrovia's breach of the Agreement, as provided for under the Agreement;
C. That the ownership of the ' 547 Patent and ' 787 Patent has reverted to the Greens due to Monrovia's breach of the Agreement;
D. That Monrovia has infringed and infringes the ' 547 Patent, in violation of 35 U.S.C. § 271, from sales of the PINK PARFAIT and TANGO TWIRL;
E. That Monrovia has infringed and infringes the ' 787 Patent, in violation of 35 U.S.C. § 163, from sales of the PINK PARFAIT and TANGO TWIRL;
F. That Monrovia, its employees, agents, officers, directors, attorneys, successors, affii ates, subsidiaries and assigns, and all of those in active concert and
participation with it, be permanently enjoined from infringing the '547 Patent and '787 Patent;
G. That Monrovia account and pay damages adequate to compensate the Greens for Monrovia's infringement of the '547 Patent and ' 787 Patent, with prejudgment and post-judgment interest and costs, pursuant to 35 U.S.C. § 284;
H. That the damages award for such infringement be increased up to three times the actual amount assessed, pursuant to 35 U.S.C. § 284;
I. That Monrovia's ' 290 Patent is invalid;
J. That this case exceptional and award the Greens their reasonable attorneys' fees, pursuant to 35 U.S.C. § 285; and
K. Such other and further relief as this Court deems just and proper.

Dated: August 3, 2017
PROCOPIO, CORY, HARGREAVES \& SAVITCH LLP

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GREEN, RITA M. GREEN

## DEMAND FOR JURY TRIAL

Plaintiffs hereby demand a trial by jury on all issues so triable pursuant to Federal Rule of Civil Procedure 38.

Dated: August 3, 2017
PROCOPIO, CORY, HARGREAVES \& SAVITCH LLP

By:


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GREEN, RITA M. GREEN

## AGREEMENT

This Agreement is effective as of the date of signing by the last of the parties to sign below, and is by and between Monrovia Nursery Company, 18331 East Foothill Boulevard, Azusa, California 91702, a California corporation ("Monrovia"), and James Mitchell Creen, Cecil Michael Green, Jr., and Rita Marie Greets, all having a mailing address at 5000s.R. 344 East, Haines City, Florida (hereinafter individually and collectively referred to as "Green"), as follows:

1. Green represents and warants that (a) Green is the exclusive owner and is the sole inventor of a certain new and distinct double Mandevilla cultivar having the varietal name "Alice du Pont Double" ("the Variety"); (b) the Variety originated as a sport on the growing grounds of Green Nursery; (c) the Variety can be reproduced only asexually; (d) the Variety is known by Green to exist anly within the boundaries of Green Nursery and Momrovia Nursery; and (e) the Variety has not been offered for sale or publically used as defined under the U.S. patent laws in a manner that would bar the filing of a U.S. plant patent and/ot a U.S. utility patent application on this variety. Green further represents and warrants that the Variety has double flowers which characteristic is ixed in the Variety through succeeding gencrations and is consistently reproducible. In the event of any breach of any of these representations and warranties, in addition to any other remedies it may have, at Monrovia's option:


2. While this Agreement is in effect and subject to the other items of this Agrecment, in consideration for the rights granted under this Agreement,


3. Notwithstanding paragraphs 3 and 4, above, the obligation by Monrovia to

+ 18 shall end in the event any of the following occur:
(a) the Variety is no longer covered by the claim(s) of a pending U.S. Plant Patent Application, a pending U.S. utility patent application, a U.S. Plant Patent, or a U.S. Utility Patent: (b) all U.S.

Plant Patent and U.S. Utility Patent protection for the Variety has expired or been held invalid; or (c) within four (4) years of the effective date of this Agreement if no U.S. patent has issued on the Variety. If the obligations to make payments end pursuant to paragraph 5 (c), above, and a U.S. patent on the Variety thereafter issues, then, subject to paragraphs 1, $5(\mathrm{a})$ and $5(\mathrm{~b})$,
 date of issuance of the U.S. Patent.
6. Monrovia may adopt or use one or more brand names for the Variety for marketing purposes. All use of any such brand names for the Variety shall inure solely to the benefit of Monrovia. Monrovia shall own all worldwide rights to such brand names associated with the Variety under common law or resulting from application(s) for trademark registration by Monrovia in the U.S. as well as any and all registrations in any country in the world for such brand names. This paragraph shall survive any termination or expitation of this Agreement. Monrovia shall not interfere with Green's offers for sale, propagation, trade names, adyertising, or other distribution of the Variety as permitted under paragraph 2; provided, however, Green shall not use any Monrovia name or mark for any purpose.
7. Monrovia shall undertake the expenses of preparing and having filed a U.S. utility patent application covering the Variety using attomeys of its choice. Such experses shall not be deducted as expenses from royalties payable to Green. At no further charge to Monrovia, Green shall cooperate in reviewing and filing any such plant patent application on the Variety and shall execute all documents reasonably required by Monrovia to accomplish any such filings and any assignments or other documents required by Monrovia to confirm its rights therein. Attached as Exhibit A is an assignment which is substantially in the form Green agrees to sign. The "other good and valuable consideration" set forth in the attached Exhibit A is provided by this Agreement. Green shall also provide any information reasonably requested by Monrovia, at no further charge, required to be disclosed to the U.S. Patent and Trademark Office under the duty of disclosure. Subject to this Agreement, Green shall assign this patent application and rights therein to Monrovia. If Green has already filed any such application, it shall be assigned to Monrovia and Green's reasonable expenses connected therewith shall be reimbursed to Green by Monrovia. Providing this Agreement is still in effect, Monrovia shall also pay for (except Monrovia is not obligated to pay any fees or other changes by Green's counsel) and control the prosecution of the U.S. utility patent application through and including the receipt of a final rejection thereof, at which time Monrovia shall have the option to discontinue prosecution of the application and inouring patent-related expenses, in which event Green has the option to assume further prosecution of the application at Green's expense. Monrovia shall provide to Green's counsel copies of all correspondence received from and filed with the United States Patent and

Trademark Office relating to the Variety. Monrovia shall also have the option to, but is not required to, apply for a U.S. plant patent or a foreign plant patent, plant breeder's rights, or other forms of plant varietal protection at its sole discretion. While this Agreement in is force, Monrovia shall pay maintenance fees for any U.S. utility or plant patent that issues on the Variety. Monrovia shall also have the option, but is not required to, pay maintenance fees for any plant breeders right or other plant varietal right that issues on the Varicty in any country in the world. Such maintenance fees shall not be deducted as expenses from royalties payable to Green. Green shall execute all cocuments reasonably required by Monrovia to accomplish any such applications, including documents confirming Monrovia's ownership thereof.
8. Providing that a valid U.S. plant patent and/or U.S. utility patent is obtained for the Variety: (a) Green shall own all rights to the genetics of the Variety, including, but not limited to, any sport or genetic alteration propagated in any way from plants, sports or otherwise from the Variety ("Spor:") that is discovered by either party; and (b) Monrovia shall have the right of first refusal to acquire an assignment of all worldwide rights in the Sport or plant, including, but not limited to, worldwide patent rights therein, under the terms of this Agreement, except that no minimum royalty shall apply to the Sport or plant and Monrovia shall not be obligated to amply for a utility or any other patent or protection on the Sport or plant. As between the parties, Monrovia shall own all rights in any plants not propagated or derived from plants of the Variery, including, but not limited to, Monrovia's existing Mandevilla variety (Mandewillo x amabilis 'Monte'), and sports of this plant, including (Mandevilla $x$ amabilis "Monite"), and in the brand name SUMMER SNOW9 which Monrovia may be using in connection with this or other plants. In addition, Green covenants not to sue or otherwise interfere with Monrovia's offers for sale, propagation, licensing, sales or other distributions of any plants not propagated or derived from the Variety.
9. Monrovia shall keep books and records accurately showing all plants of the Variety propagated, sold, or used. The books and records shall be open during regular business hours to the inspection of Green or by an accountant who is duly authorized by Green.
10. Monrovia shall have the worldwide right to sublicense any rights to the Variery assigned or transferred to Monrovia under this Agreement, except that Monrovia agrees to not
license any growers to grow the Variety in the states of Florida, Mississippi, Georgia, Alabama or Louisiana, United States of America. Monovia, itself, is not restricted in where it may grow the Variety. Monrovia shall provide Green with a copy of any sublicense agreement it enters into with a third parry.


11. Monrovia and Green shall notify each other promptly upon discovery of any unauthorized propagation, sale, or use of the Variety or any other violation of rights granted under this Agreement. Monrovia shall have the right to, but is not obligated to, take action at its expense against any party violating its rights in the Variety. Any recovery in any such action, including any settlement thereof, shall belong to Monrovia. Green agrees to join Monrovia as a party to such actions, at Monrovia's expense, if reasonably required to do so by Monrovia in order for Monrovia ${ }^{2} 0$ bring the action. Should Monrovia elect not to take any action against a party violating any patent rights in the variety, Green shall have the option, at Greea's expense, of undertaking such action and shall be entitled to any recovery arising from such action, provided, however, Green is not authorized to resolve any such action by granting a license to the Variety.
12. This Agreement shall run from the date of the signing of this Agreement to the end of the full term of any U.S. plant patent or U.S. utility patent that issues on an application for the Variety.
13. This Agreement is subject to a two-year period of review running from the effective date of this Agreement to permit Monrovia to evaluate the prospects for comrncrcial success of the Variety. At any time during this two-year period Monrovia may, at its sole discretion, terminate this Agreement upon sixty (60) days written notice to Oreen.


14. Green shall defend, indemnify, and hold Monrovia harmless against any damage, including attorney fees, before filing, at trial, and on appeal, suffered by Monrovia by reason of any claim or suit against Green, based upon Monrovia's propagation, sale or other distribution of the Variety. Green shall promptly notify Monrovia of any such claim or suit.
15. Any notice required or permitted to be given to the parties hereto shall be deemed to have been properly given in person or mailed by first class certified mail to the addresses of the parties as given above or other such address as may be designated in writing by the parties from time to time,
16. This Agreement may be terminated for breach of this Agreement by either party upon sixty (60) days written notice to the other party. Notice shall be effective upos teceipt and shall be sent to the last known mailing address of the party. Unless otherwise provided by written notice by one party to the other, notice to Green shall be to the attention of: James Mitchell Green, Cecil Michael Green, Ir. and Rita Marie Green at 500 S.R. 544 East, Haines City, Florida, and notice to Monrovia shall be to the attention of the President, Monrovia Nursery at 18331 East Foothill Blvd., Azusa, California 91702. Termination shall not occur if the breach of this Agreement is cured within this sixty (60) day period and the Agreement shall continue in full force and effect until termination or expiration. This Agreemant may also be terminated by Monrovia in the event that. (a) no U.S. utility or plant patent is obtained on the Variety within four (4) years of the date of this Agreement; (b) all U.S. utility or plant patents on the Variety, if obtained, are held invalid; or (c) at any time after seven years of the effective date of this Agreement upon six (6) months prior written notice from Monrovia to Green. If this Agreement is terminated due to a treach by Monrovia or after seven (7) years from the effective date of this Agrecment, as set forth in this paragraph 16(c), above, then all patent rights in the Variery shall immediately revert to Green; provided, however, Monrovia shall have a license to grow and sell any inventory it may have of the Vanety, subject to payment of the royalties as required by this Agreement.
17.
18. This Agreement shall be govemed by and shall be construed in accorcance with the laws of Los Angeles County, State of Califomia, which is hereby designated as the proper forum for any disputes involving this Agreement.
19. In the event that a suit or action is instituted by either of the parties hereto to enforce the rems ir on ascount of any breach of the terms of this Agreement, the prevailing party shall be entitled to reasonable attomey fees in such suit or action, including attomeys fees on any appeal therefrom.
20. Waiper of one or more breaches of this Agreement shall not constitute a waiver of any subsequent breach.
21. If any clause or provision of this Agreement is held invalid or unenforceable by a court or as a result of binding arbiration, the remaining clauses of this Agreement shall remain in effect.
22. Except as may be required by court order, the financial terms of this Agreement shall be maintained in confidence by the parties.
23. This Agreement is not assignable by either party without the written consent of the other party which shall not be unreasonably withheld.
24. This Agreement shall inure to the benefit of each of the parties hereto and their successors and assigns. All prior agreements respecting the subject matler of this Agreement, including, but not limited ts, an Agreement of September 5,1997 , whether written or oral, express or implied, between the parties hereto are hereby terminated and are declared abrogated, canceled, and are mill and void and have no effect, except that Green agrees to deliver, on or before March 1. 1999, three thousand two hundred fifty $(3,250)$ cuttings of the Variety and guarantees that all of these cuttings will be of the Variety and have the double flowering characteristic. These three thousand two hundred fifty $(3,250)$ cuttings and the three thousand (3,000) cuttings previously delivered by Green pursuant to the Septermber 5, 1997 Agreement have previously been paid for by Monrovia. Any future sales of cuttings from Green to

Monrovia shall be by a separate agreement, if any, which is entered into by the parties. No modifications of this Agreement shall be effective unless in writing and signed by both parties.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement in duplicate originals by their respective officers thereunto duly authorized the day and year first above written.

Executed at $31^{\text {at }}$, State of Cuguot, this ___ day of 19998

Date:

state of Florida,
county of Polk ; ss.
This $3^{\text {st }}$ day of Quqhat, 1998, before me personally came the above-named James Mitchell Green, who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.
[SEAL]
Notary Public for
My commission expires: $\qquad$

Date: $8-31-98$

state of Florida,
county of Polk ) ss
This $3^{1^{+}}$day of. Auquat, 1998, before me personally came the above-named Cecil Michael Green, Jr., who executed the foregoing instrument in my presence, and who produced FI Driven licexel

acknowledged to me that he executed the same of his own free will for the purposes set forth therein.
[SEAL]


TAMI E, DYE
COMMISSION ${ }^{2}$ CC 706429
Express lan 5, 2002



My commission expires: $\qquad$

STATE OF )

This $3 L^{5 \prime}$ day of Au quart 199 \&, before me personally came the above-named Rita Marie Green, who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of her own free will for the purposes set forth therein.

## [SEAL]

Notary Public for
My commission expires: $\qquad$
Date:


## ) ss. <br> COUNTY OF ) )

behalf of said Comporation by authority of its Board of Directors, and acknowledged that said instrument is the free act and deed of said Corporation.

[SEAL]

Monrovia shall be by a separate agreement, if any, which is entered into by the paries. No modiffetions of this Agreement shall be effective wins in writing and signed by both parties.

IN WITNESS WGEREOF, the parties hereto have executed this Agreement in duplicate originals by their respective officers thereunto duly authorized the day and year first above written.

Executed at Dover State of Florida, this 18 day of August 1998

Date: . $8 / 18 / 98$


Jones Mitchell Green
STATE OF Eloirda ;
) ss.
COUNTY OF Hillsborough
This $18 \mathrm{~d} . \mathrm{y}$ of Loirda 1998 , before me personally came the above-narnod James Mitchell Green, who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the sane of his own free will for the purposes set forth therein.


Date: $\qquad$


Cecil Micheal Green. Jr.
STATE OF
COUNTY OF
$\square$

This $\qquad$ day of $\qquad$ 199 , before me personally came the above-named Cecil Michael Green, Jr., who executed the foregoing instrument in my presence, and who
(12) United States Patent

Green et al.
(16) Patent No.: US 6,300,547 B1
(4) Date of Patent:
(54) MANDELVLILA PLNE WTTH DOURL: HLOWER
(75) Invertars: James Mitehell Creen; Cedl Michael Green, Ir., Klta Marice Green, all of Hanes Cily, H . (US)
(73) Assignee: Monrovia Nursery Compuny, Azusa, CA(US)
(*) Notice: Subject to any disclamer, the lerm of this patent is extended or adjusted under 35 U.S.C. $154(\mathrm{~b})$ by 0 days.

This patent is subject to a termimal disclaimer.
(21) Appl No: 09/137,561
(22) Fikd: Aug. 20, 1998
(51) lnt. $\mathrm{Cl}^{7}$ $\qquad$ AOHH 500; AOEH 502; AOHH 504; A01H 5/12; A01H 400
(52) U.S. C. $\qquad$ 8001200,323 $800232,200,270 ;$ PI 232 : 47 DIG 3 58.1

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J. Mitenell Green letet bearing the notation Jun 21. 1997 (wote) mailed Jul. 1. 1997 ( 8 pages),
Letter from Monmovia to Micetell Green bearing facsimile notation of Aug. 21, 1997 (1 page).
cited by examimer

Assistan Eixaminer-Mclissa Kinball
(74) Attorncy, Asen, or Fimm-Klarquist Sparkman Camplell Leigh \& Whinson LIP

## ABSTRACT

A new "Louble Mandevilla" variety is characterized by double lowers which presen an outer corolla and a ring of imner petaloiks producing an enhaneed decorative appearance for this evergreen vine-like climbing shrub.

10 Cluims, 3 Hrawing Shees
(3 of 3 Drawing Sheets) Illed in Color)

FIG. 1


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FIG. 2


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FIG. 3


Exhibit 2 to Complaint
Page 027

## MANDELVILLA PLANT WTTH DOUBLE FLOWER

## MELD OF THE INVENTION

The present invention relates to a new varicty of Mandevilla plant with a dable thower.

## BACKGROUND OF THE INVENTION

Mandevillas are woody, evergreen, vine-like climbing shrubs with funnel-shaped or trumpet-shaped flowers that grow in temperate climates. Common varieties of Mandevilla include Mandevilla x whabilis ("Alice du Pont") which exhibis red to red-pürple, trumpet-like flowers; Mandevilla sunderi (Red Riding Hood) which exhibis rose-pink, hunel-shaped blooms; Mandevilla $X$ amabilis Summer Snow ${ }^{\text {P4 }}$ ("Monte"), US. Pat. No. 10,329, which exhibits pure white fowers which may becone linged with a pinkish blush; and Mandevill sumveolens (Mandevilla haxa) which exhibits white to ivory trumpet shaped llowers. Mandevilla is native from Mexico so Argentina, and over 100 separate species of Mandevilla bave been classified.
A Mankevillagenerally has the following chatacheristics. Leaves are opposite or vericillate. Fowers are fumel-fom, displayed in axillary or tominal racemes, the calyx is five-panted with scales at the base inside, the corolla is five-parted, the stamens have very short filamems and anhers and unite and adbere to the stigma, there is a dish of two to five lobes or scales and there are two ovaries with many ovules in each. The frut ernsisis of two terete follicles with the seeds having a luft of hairs at the apex.

Mandevillas are popatar garden and greenbouse plants, growing well in full sun and partial shade in temperate areas, providing vear-roum foliage and decorative blooms.
The presenty known Mandevillas possess single funnel shaped flowers and it is belicved that none of the presently known species or vaneties possess double llowers, except the new varicly 'Monte'.

It would be commercially de sirable to produce a Mandevilla that has double flowers and which, therefore, have enhanced decorative quaties compared to currenty available Mandevilla plants.

## SUMMARY OF THE INVENTION

The present inverion is a Mandevilla plam (referred to hereafter as "Double Mandevilla") that is different from previous Mandevilla plants in that it possesses double flowers. Particularly, Double Mandevilla plants possess both an outer corolla of petals and a generaty concentric inner ting of petaloids (converted si- nens). Due to the conversion of
 will be stetile. Double Mandevilla plants are useful as woody vines that produce decorative double blossoms. The double flowers of Double Mandevilla plants enhance appearance werd make the plants especially marketable, and therefore, useful.
The presen invention encompasses whole plan specimens and parts of Double Mandevilla plants including seets, pollen, cut flowers, blorms, meristem tissue, cultured cells, rootstoek, tissue that is propagatable by sexual or asexual methods, and also grafted strubs that include Double Mandevilla rootsiock or strub or stems or pants thereof and plants that are "essentially derived" from Double Mandevilla plans.
The presen invenion also inchudes methods of producing double-flowering Mandevilla plans by sexual propagation
of any non-sterile Double Mandevilla plants, whether by self-crossing Double Mandevilla or by crossing Double Mandevilla with another Mandevilla plant or other plant. The present invention also includes Mandevilla plants that s. are produced by such methods.

The present invention also includes methods of producing Double Mandevilla plants by asexual methods such as by catting and somatic cell culture.
The presen invention also includes the new and distinct specific variety of Double Mandevilla plant called Rita Marie Green'. The present inveation includes whole plants of Rita Marie Green as well as parts of this variety including any seeds, any pollen, cut flowers, blooms, meristem issue. cultured cells, rootstock, and any tissuc propagatable by sexual or asexual methods, and grafted shrubs that include Rita Marie Green rootstock or shrubs of stems or parts thereof that are "essentially derived" from Rita Marie Green.
The present invention also includes methods of proxucing Rita Marie Green by propagation.

The present invertion also includes methods of producing Rita Marie Creen by asexwal methods such as by cuting or by somatic cell culture.
The foregoing and other features and advantages of the invention will become more appareat from the following detaiked description and accompanying photographs and figures.

## BRIEF DESCRIPIION OF THE PHOTOGRAPHS

The file of this patent contains at least one drawing executed in color. Copies of this patent with color drawings will be provided by the Patent and Trademark Office upon request and payment of the necessary fee.
The following drawings are photographs of 'Rita Marie Green' taken in Arusa, Calif. between May and Jul. 1998.

FIG. 1 is an anterior view of the double flower bloom of Rita Marie Green showing the double flower structure made up of outer five-parted corolla limbs and inner tive-parted petaloids.
MG. 2 is an posterion view of the double flower blom of Rita Marie Green showing the outer five-parted corolla anached to the stem.
HG. 3 is a view of the foliage of Rita Matie Green showing elliplic evergreen leaves.

## DETAILED DESCRIPTION OF THE INVENTION

The present invention provides a Mandevilla plant (herein referred to as Double Mandevilla) having a double-flower consisting of an outer corolla of petals and an inner ring of petaloids (converted stamens). One embotiment of the present invention is the new and distinct variety of Mandev. illa having double flowers called 'Rita Matie Green'. Definitions
The following defintions are provided to better define the present invention. Terms not defined herein are to be understood according to their ordinary significance as employed by persons of ordinary skill in the relevant ant.
The term "plant" or "variety" refers to whole plant 0 specimens, sexmally-feproduced progeny thereof, and any part of such a plant. including rootstock, budwood, hardwood or sofwood cutings, seeds, pollen, tissue culture cells, somatic embryos, or any oher plant part that can be propagated (i.e., that is "propagable") by conventional meth65 ods.
"Sexual propagation" includes self-crossing and non-self. crossing of plams, for instance self-crossing of Double

Mandevilla（for example，any non－sterile \＆ita Maric Green） or crossing Double Mandevilla（forexample，any non－sletile Rita Marie Green）with another Mandevilla variety that possess the essential characteristics of Double Mandevilla plants，in particular，double flowers．
The phrase＂plan structure＂as used berein refers 10 any part of a plant，including any tissue or ogan，from a single cell to a complex multi－hissuc organ such as a flower，root， shoot，heaf，stem，polten cell，ovary，slamen，anther，carpel， pistil，bud，meristem，seed or cell culture．
The term＂original stamers＂means the number of sta－ mens in the progenitor plant（he plant from which the Double Mandevilla was desired，not having double howers）． In the presem invention，one or more of these original stamens and most preferably all of the original stamens have been comened to a petaloid．
The term＂essentally derived＂is used herein as defined in the International Convention for the Protection of New Varieties of Plants of Dec．2，1961，as revised on Mar．19， 1991 （UPOV），according to which（Chap．V，Att．14，par． （5）（b））a variety is＂ssentially derived＂from another variety （＂the initial variety＂）when：（1）it is predominantly derived from the initial variery，or from a varicty that is itself predominantly derived from the initial variety，while retain－ ing the expression of the essential characteristics that result from the genotype or combination of genotypes of the mital variety；（ii）it is clearly distinguishable from the mitial variety；and（iii）except for the differences which result from the act of derivation，it conforms fo the initial varicty in the expression of the essential＂㱠acteristics that result from the genotype $\alpha$ combinumitn of genotypes of the initial variety． Such essemally－derved varictics may be obtained for example ty the selection of a nutural or induced mutant，or of a somack al variant，the selection of a variant individual from plants of ane initial varicty，backcrossing，or transfor－ mation by genetic engineering（see UPOV，Chap．V，Art．14， par．（5）（c））

The＇Rita Marie Green＇，instar as the applicant has been able to observe them，has co．sistenty displayed the char－ acteristics described berein．Double Mandevilla plants described herein also would be those that consistemly have these double flowers．
Phenotypic Characteristics
The following is a detaited ciscription of the invention based on plants grown at Hanes City， Fla ，and in Azusa， Calif．Color descriptions are according to the Royal Hort－ cultural Society color charts，Other terminology is used herein in accordance with ordinary dichonary significance or as commonly used by those of odinary skill in the relevant ant，unless othe rwise noted
The paren plant of Ra Maric Green was tound in a cultivated area（in a grecohouse）in Haines，City，Fla．
The Rita Maric Green has not been observed under all possible enviromemal conditions and its phenotype may vary significantly with varations in enviroment such as temperature，light intensity，and day lengh，without any variation in genotype．However，the essential characteristic， unique to the Doubte Mandevila of the inveation is double Howers，that is a Mandevilla flower having an outer corolla of petals and at least one and moss preferably a plurality of petaloids within the outer corolia of petals．Mosi preferably， the double fowers have a gatally concentric and complete （e．g．substantially encompassing three hundred sixty degrees）inner ring of petaloids．

In one combodiment，the inner petaloids are converted stamens．In one embodiment，all samens may have been converted into petaloids，renderine the fower lacking in
stamens and，therefore，sterile．It is also possible for some， but not all of the stamens to have been converted into petaloids such that the flower possesses an inner ring（which may be less than complete）of petaloids but also possess at least one stamen．In this case，the at least one stamen may be fertile so as to permit sexnal reproduction of the plant．
One specific embodiment of the invention includes an inner ring of petaloids that are presented as being generally flattened and opened lying against the outer conolla，resem＊ bling the outer corolla，the petaloids having a length approximately equal to the petals of the outer corolita．

Another specific embodiment of the invention includes an inner ring of petaloids that are shonter than the petals of the outer corolla and that remain in a cluster forming a tight cluster habit of petafoids generally prohibiting a view of the inmer throat and forming a＂llower－within－flower＂cluster．In one such emboriment，the petaloids may be fused or par－ tially fused to form a lube of partial tube of petaloids．One embodiment of the invention includes a five－patted outer corolla and inner tive－parted petaloids．
One embodiment of the invention includes Doubte Mandevilla plants having a double flower where the color of the corolla petals and the petaloids is primatily red to red－purple．
One specifc embodiment of the invention is the variety Rita Marie Gireen．This varicty stabley produces several forms of double howers，which thus display the double－ flower characteristics of all Double Mandevila flowers of the invention．In one form，the＇R钟 Marie Green＇plants have double flowers with outer five parted corolla limbs and inner five parted petaloids which overlay the corolla limbs， exposing the inner base of the rube．In a second torm，the double flowers have outer tive pated corolat limbs and imer five parted petaloids which are shorter than the corolla and remain in a cluster within outer corolla，forming a light cluster habit of petaloids generally prohibiting a view of the inner throat and forming a＂llower－within－flower＂cluster．In raver forms，the inner petaliods have been observed to have a folded almost rose－like appearance and alternatively a windmill－like appearance．In Rita Marie Green，these essen－ tial double－flower chatacteristics are present throughoun suecessive generations．The petafords are converted stamens and the plants of the invention observed to date thus exhibit no stamens and are，therefore，slerile．The essential charac－ teristic of the Double Mandevilla plants of the invention is， therefore，double flowers．

Essental characteristics for all plants of the invemion， would be established and transmitted through succeeding propagations．

Other characteristics exhibited by Double Mandevilla include the following（characteristics specifically exhibited by the Rila Marie Green are denowd by the phrase for Rita Marie（rreen）：
FOLAGE
Type：Evergreen．
Shape：Elliptic（linear to oblong）．
Apex：Long to shor acuminate tip．
Base Cordate．
Lengh：about 9.5 cm to 15 cm ．
Width：about 4.6 cm 10.8 .2 cm ．
Color：
Mature upperfoliage：Green，like RHS 139A to RHS 137A．
Marure lower follage：Green to yellow－green，like RHS 146 B.
Arrangement on stem：Opposite．
Margins：Entirc．

## R1OWERS

Arrangement: Axillary racemes.
Structure: Double flower with outer corolla of petals and inner petaloids which is most preferably in the form of a complete ring of inner petaloids. Likely reproductive stractures are stafle due to "double" flowers with typical fivernumbered slamens converted to petalods.
Reproductive structures for "Rita Marie Green':
Style: Generally piesint, about 8 mm to 11 mm in lengit.
Stamens: Absent, develoged into showy petaloids.
For 'Rita Marke Green' there are several double flowey forms that have been observed, as follows:
Form 1:
Overall structure: Funnel-shaped. Outer five parted corolla limbs
Inner five parted petaloids. Petaloids overlay the corolla limbs exposing inner base of tube. Corolla:

Color for 'Ria Maric Green':
Corolla and petaloids: Red to red-purple, like RHS 58B and 58 ${ }^{\circ}$
Petaloids (within throat): Slight striations of white, like RHS 555 A and 155 B , and yellow, like RITS 2 within 1 cm of base of inner throat.
Corolla (within throat): Yellow, like RHS 2 within 2.5 cm of base of inner throat.
Widh: About 10.5 cm to 110 cm .
Lengh of throat from calyx to corolla limb atrachment: Aloul 4.4 cm to 4.9 cm .
Length of corota from calyx to top of corolla: About 5.5 cm 106.5 cm .

Ladi "d al corolla limbs: 4.0 cm 105.0 cm long, 3.5 em to 5.5 cm wide. A.ynmetrical in shape, ending 35 in a short, abrupt tip.
Pelaboids (converted stamens)
Individual petaloid kergh: Abou 4.0 cm to 4.5 cm .
Individual petaloid width: About 3.5 cm w 5.0 .0 cm .
Petaloid attachment: About 1.5 cm above top of calyx.
Petaloidfusion: 㗉used atoout 1.5 cm to 20 cm al base.
Shape: Symmetrical shor, abrupt ip. Petaloids are fattened and openet, resembling outer corolla, Length approximately equal to outer corolla, exhibiting a fulty donble appearance.
Form 2 :
Overall structure: Finnel-shaped. Outer five anted corolla limbs. Imer five parted petaloids. Petaloids have defined difference, shonter than corolla and remaining in a cluster withon outer corolla, not opening fat as in Form 1. Tight cluster babit of petalnids generally prohbits view of inner throat. Cluser of Hower within flower.
Corolla:
Color:
Corolla and petaloids: Red-purple group 62B, 62C and 62D, and red purple group 58 B and 58 C .
Petaloids (within throat): Exhibit white blotches and streaks of whit group 155 A and 155B, and yellow group 2 within 1 cm of base of inner throal.
Corolla (within throat). Yellow group 2 within 1.5 cm of base of inner throat.
Reproductive structure:
Style. Generally present $8-11 \mathrm{~cm}$ in lengh.
Stamens: Absent, developed into longy petaloids.
Width: Abom 9.0 cm wo 10.5 cm .

Form 4: Rarely observed. inner five petaloids assume a windmill-like appearance.
Overall structure: Outer five parted corolla limbs, inner live parted petaloits.
Width of corolla: 9 cm .
Length of corolla throat from calyx to corolla limb attachment: 4.5 cm .
Length of corolla from calyx to top of corolla: 6 cm .

$$
\text { Outer corolla limbs: } 4 \mathrm{~cm} \text {. }
$$

Inaer petaloids: 3 cm .
Reproductive sinctures.
Slyle. Absent
Stamens: Absent
Color:
Corolla and petaloids: Red-purple group 588 and 58 C and red-purple group 62A, 62B, 62C and 620 , interspersed with motted white blotehes on petaloids green-yellow at base 3 mm by 2 mm .
These additional characteristics are established in 'Rita Matic Green' and are transmited through succeeding 55 ascxual propagations.

Asexual reproduction of Rita Marie Green" was performed by cuttings. Other conventional methoxis for propagation of Mandevilla varicties may also be used.
The above detailed description is in no way meant to narrow the scope of the invention which is to be interpreted in light of the claims. llaving illustrated and described the principles of the present invention, it should be apparem to persons skilled in the ant that the methods of the present invention can be modified in arrangement and detail without
65 departing from such principles. Applicant claims all modifications that are within the spirit and scope of the appended claims.

US $6,300,547 \mathrm{Bl}$
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What is claimed is:

1. A plant of a Mandevilla variety "Rita Marie Green" having at least one double flower.
2. The plant of claim 1 wherein said flowers have outer five parted corolla limbs and imer five parted yetaloids, said s petaloids overlaying the corolla limbs.
3. The plan of claim 1 wherein said flowers have onter five parted corolla limbs and inner five parted petaloids, said petaloids being shorter than the corolla and remaining in a cluster within onter corolla, forming a tigh cluster babit of a petaloids generally prohibiting a view of the inner throat.
4. A plan structure derived from the plant of claim 1.
5. A plant preduced by propagating the Mandevilla variely 'Rita Marie Geten' of claim 2.
6. A Madevilla varicty essentially derived from the plant of clam 1, wherein the essentially derived plant displays at least one double flower.
7. A plant part from the plant of claim 1
8. Plant material from a plat of clam I which is capable of reproducing a double llowering Mandevilla plant.
9. A method of producing a double-flowering Mandevilla plant comprising propagating a double-flowering Mandevilla plant of the Rita Marie Green varicty to produce a pluraliy of plants and selccting at least one double Howering Mandevilla plan from said plurality of plants.
10. Asexually produced progeny of the double-flowering Mandevilla plant according to claim 1 .
${ }_{(12)}$ United States Plant Patent Green et al.
(if) Patent No.: US PP11,787 P2
(45) Date of Patent:

## (54) MANDEVILIA PLANT WITH DOUBLE FLOWER CALLED 'RITA MARIE GREEN'

(75) Inventors: James Mitchell Green; Cecl Michael

Th Green, Ir., Bita Marie Green, all of Hanes City, FL (US)
(73)

Assignee: Monrovia Nursery Company, Azusa, CA(US)
(*) Notice: Under 35 U.S.C. $154(b)$, the term of this patem shall be extended for 0 days.

This patent is subject to a terminal disclaimer.

Appl. Na.: 09/137,554
Filed: Aug. 20, 1998
Int. Cl. ${ }^{7}$
US. Cl.
Field of Search

Field of Search P11 232 800323

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## BACKOROUND OF THE INVENTION

The present invention relates to anew variety of Manderilla plant, called 'Rita Maric Geen'. This plant is believee to be differen from all previous known Mandevilla plants in that it possesses double howers. 'Elata Maric Green' is useful as a woody vine that proluces deconative double blossoms. The double flowers of 'Rita Marie Green' enhance its appearance and make it especidly marketabie, and therefore, useful. The botanical name for my new variety is Mandevillaxamabilis 'Rita Maric Green'.
The progenitor plant of 'Rita Maris Green' was a Mandevilla of the varicty "Alice du Pont", which does not have double flowers. 'Alice Du Pont' is botanically known as Mandesillaxamabitis (an nerspecific bybrid of M. splendens and an undefined parent), and therefore has the complete botanical name Mardevillaxamabilis "Alice Dulpont'.

The paren plant of the new vately was found in agroup of 'Alice du Pont' Mandevilla plants growing in a cultivated area (in a greenhouse) in Hanes City, Fla. Thus, the new plant is understood to be a mutation of the "Alice du Pont" varicty of Mandevilla plant. The new plant has been propagated from cutings taken from the parent plam and from progeny produced from such cultings. My new variety, Rita Marie Green, has been grown from at least five successive generations of cuttings and each generation has only generated plants that express double flowers (i,e. a first cuting has been taken grown of maturity and then used to provide the cutting for the next generation). In addtion, colturing of the 'Rita Maric Green' variery auxillary bud tissue has also only produced plants with double flowers. Hence, the double llower phenotype is stable.
'Rita Marte Green' has not been observed under all possible enviromemal conditions and its phenotype may vary significantly with varations in enviromment such as temperature, light intensity, and day length, without any

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Color photograph of Mande Villa plant $\cdot$ Monite ${ }^{3}$ (I page). Letter beariag a date of Aug. 22, 1996 from Mike C. Green (11 pages).
Memo entited MN-AZUSA dated Sep. 4, 1996 (3 pages). J. Mitchell Green leter bearing the notation Jun. 21, 1997 (wrote) mailed Jul. 1, 1997 (8 pages).
Letter from Monrovia to Mitchell Green bearing facsimile notation of Aug. 21, '97 (1 page).
Primary Examiner-lyatte R. F. Smith
Assistant Examiner-Melissa L. Kimball
(74) Atromey, Agent, or Firm-Klarquist Sparkman Campbell Leigh \& Whinston LIP

## ABSTRACT

A new and distinct Mandevilla variety characterized by red to red-purple double flowers having five parted outer corolla and imer five panted ring of petaloids.

3 Drawing Sheets

## 2

variation in genotype. However, the following unique charactristic bas been repeatedly observed in asexually propagated progeny of 'Rita Marie Green' and distinguish it from all other Mandevilla varieties: double fowers which are red to red-parple and comprise an outer corolla of tive petals or limbs and an inner flower comprising a ring of petaloids. This double flower structure is unique among Mandevilla plants and is a characteristic of all 'Rita Marie Green' variety plants, including the varicty 'Monite'. The inner petatoids comprise five inner petaloids in a cluster within the outer corolla limbs. In some cases, the inner petaloids assume an upright or trumpet-like configuration generally prohibiting a view of the inner throat and forming a "flower-withinhower" cluster; in other cases, the inner petaloids are more laid back against the outer petals, expesing the throat of the plant; in relatively rare instances, the inner petaloids assume a folded, almost rose-like appearance or, alternatively. a windmill-like appearance. However, in all cases, the fower within a flower characteristic of this new Mandevilla variety is oustanding.

This double flowering characteristic is established and transmitted through succeeding asexual propagations. There are several double flower forms that have been exthibited by this plam, as described below.

## BeLEE DESCRIPTION OF THE PHOTOGRAPHS

The following drawings are photographs of Rita Marie Green."

FIG. 1 is an anterior view of the double llower bloom of 'Rita Marie Green' showing the double flower structure made up of outer five-panted corolla limbs and inoer fiveparted petaloids.

FIG. 2 is an posterior view of the double flower bloom of 'Rita Marie Green' showing the outer five-parted corolla atached to the stem.
$\mathrm{FT}, 3$ is a view of the foltage of Rita Matie Green showing its elliphic green leaves．

## DETALED DESCRIPTION

The following is a detailed description of the imvention based on plants grown at the inventors＇nursery in Haines City，Bla．，and al a nursery in Axusa，Calis．All wour of the double nower forms disclosed herein were oblained by growing plants of＂Rita Marie Green＇in the same anviron－ mentat conditions．Color descriptions are according to The Royal Honicultural Socety Cobur Chart．Other terminol－ ogy is used hercin in accordance with ordinary dictionary significance or as commonly uscd by bose of ordinary skill in the relevant art，unless btherwise noted．

## THE DANE

Foliage：
Type．－vivergreen．
Shape－Llliptic（linear to oblong）．Apex：Lang to shon acominate lip．Base：Cordate．
Lengeth Varibuc from about 9.5 cm to 15 cm
Widh．－Variable from abeut 4.6 cm 108.2 cm ．
Color－w－Uper foldege：Green group RUIS．139A to green group R．H．S．137A．Lower klange Yellow－ green group R11S．146雱．Arrangement on stem： Oppasic．Margias：Lntre．Habit：The Rita Marie Green variety has a vigorous t wining habit and is an ideal semi－tropical crecener．A manure plan of the vantely Rita Marie Green has twining stems 15 to 20 fee long and produces leaves that ate large and glossy．Discase Resistance：The＂Rita Maric Green＇ varicty is not known to be unusuthly tolerant to any pathogens，悪rost Tolerance：The Rifa Marte Green＂ variely is tolerant to temperatures us low as approxi－ mately $30^{\circ}$ P．Fragrance：Fowers of the＇Rita Maric Green＇variety have a slight sweet Iragance．
Howess：
Form 1．－Arrangement：Axillary racemes．Color： Upper surface of geals Corola and petalods：Red－ purple group R．IIS．58D and 58C．Petaloids（witin throat）：Slight striations of white group R．H．S．155A and 1553 and yellow group R．H．S． 2 within 1 cm of base of inner throat．Corolla（wihin throat）：Yollow group en H．S． 2 within 2 cm of base of inner throat． Unocrside u＂petals：Red－purpe group R．H．S． 58 B and 58C，mixed with red－mute Rum．S．group 62A， 621 ，62C，ated 62D and white group R H．S． 155 D ．安eproductive sinactures：Style：Cenerally present， abows 8 mm to 11 mm in lengh．Stamens：Absent， develoned into sbowy petals．Stracture：Overall， fund shaped．Likely reproductive structures are steride due to＂double＂hlowers with typical five－ numbered stamens converted to petaloids．Outer five parted funel－shaped corolla limbs．Inner five parter petaloids．Petaloids within the corolla to form a double 全ower Corolla：Widh：about 10.5 cm to 11.0 cm． length af throat from culyx 10 corolia limb attachment：about 4.4 cm to 4.9 cm ．Length of corolla from calyx to top of corolla：about 5.5 cm to 6.5 cm ．Individual corolla limbs： 4.0 cm 10.5 .0 cm long， 3.5 cm to 5.5 cm wide．Asymmetrical in shape， erdiag in a short，abrupt tip．Petakids（converted stamens：Individual petaloid length：$\quad$ bout 40 cm to 4.5 cm ．Intividual petaloid widtu about 3.5 cm to 5.0 cm ．Pealoid attachment：about 1.5 cm above top at calyx．Patald luskon：冓used aboui 1.5 cm to 2.0 cm at basc．Shape：Symmetrical short，abrupt tip． ＂etaloids are fatened ath openct，resemblixy outer
corolia．Iength approximately equal to outer corolla， exhibiting a fully double appearance．petaloids over－ lay corolla limbs exposing yellow inner base of tube．
Fom 2－Overall Structure：Funel shaped．Outer five parted corolla limbs．Inoer iva parted petaloids． petaloids have defined diferetece；shorter than corolla and remain in a cluster within center of corolla，not opening lat as in lorm 1．Tight chuster babit of etaloids generally probibits view of inner throat．Cluster of llower within flower．Corolla： Widt：about 9.0 cm to 10.5 cm ．Length of throat from calyx to corolla limb attachment：about 4.3 cm to 4.8 cm ．Length of corolla from calyx to top of corolla：abour 6.0 cm ta 70 cm Individual corolla limbs：about 4.0 cm to 5.0 cm long， 3.6 cm 10.4 .6 cm wide．Asymmetrical in shape，ending in an abrupt tip．Petaloids（conventer stamens）：Individual peta－ loid length：about 3.5 cm to 5.0 cm ．Individual petaloid widh：about 4.0 cm to 5.2 cm ．Petaloid attachment：about 1.5 cm above top of calyx．Peta－ land fusion：fused，sometimes separated 2.0 cm at base．Shape：Somewhat symmetrical，undulate．Peta－ loids have defined distance，shorter than corolla and remaiaing in a cluster within outer corolla，mot opening flat as in form 1．Tight clusker habit of petaloids generally prohibits view of inter throat． Cluster of llower within fower．
Form 3．－Rarely observed，inner five petaloids folded to provide a rose tower－lke appearance．Overall Structues：Outer five parted corolla limbs，inner five parted petaloids．Width of corolla： $9-10.5 \mathrm{~cm}$ ． length of corolla throat from calyx to corola limb attachment： $4.3-4.8 \mathrm{~cm}$ ．Length of corctla from cayx to top of corolla：6－7 cm ．Outer corolla limbs： 4.5 cm long．Inner petaloids： 4 cm long．Reproduc－ Tive Structures：Style：Absent．Stamens：Absent． Soape：Imer petaloids fattened and opened，resem－ bling outer corolla．Similar to Fom tyl．Coloz： Corolla and petaloids：Red－purple group 58B and $58 C$ ，and red－purple group $62 \mathrm{~B}, 62 \mathrm{C}^{\circ}$ and 62 D ． Pelaloids within throat exhibit white blotches and streaks of white group 155A and 1557，and yellow group 2 within one centimeter of ioner throat． Corolla within throat：Yellow group 2 within 1.5 cm of base of imner throat．
Form 4．－Warely observed，inner fve petaloids assume a windmill－like appearance．Overall structure：Outer five parted corolla limbs，innor five panted petaloids． Width of corolla： 9 cm ．Length of corolla from calyx to top of corolla： 6 cm ．Outer corolla limbs： 4 cm ． Inner petaloids： 3 cm ．Reproductive struchures： Style：Absent，Stamens：Absent．Color：Corolla and petaloids：Red－purple group 58 and 58 C ，and red－ purple group 62A，6213，62C and 62D，interspersed with mothed white blotehes on petaloids greent－ yellow at base 3 mm by 2 mm．

The reason for the varicd appearance of the douthe flowers has yet to be determined．However，the red to red－purple double hower characteristics are estatlished and Iransmitted through succeeding asexual propagations．

Asexual reproduction of＂Rita Maric Green＂has been performed from cuttings．Oher conventional methods for propagation of Mandevila varictics may also be used．

What is ctaimed is：
1．A new and distinet variety of Mandevilla plant having red to ned－purple double flowers substantially as shown and cescribed herein．

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FIG. 1


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FIG. 2


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FIG. 3


# UNITED STATES PATENT AND TRADEMARK OFFILE CERTIFICATE OF CORRECTION 

PATENT NO. : Pp 11,78712
Page 1 of 1
DATED February 27,2001
INVLENTOR(S) : Green el al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 1.
Line 13, "Pont', which" should read -- Pont' (unpatented), which --. Line 18, "The parent plant" should read -- The original plant --.
Line 22, "i mutation" should read -- a limb mutation --.
Line 24, "parent" should read -- original -...

Column 2.
Line 9, "the vanety" should read -- the proprietary variety ....
Column 3
Line 44, "R.H.S. $2^{n}$ should reat -- R.H.S. 2 A --.
Linc 46, "R.H.S. $2^{\text {" }}$ should read -- R.H.S. 2 A --.
Line 52, "petals" should read -- petaloids --
Column 4.
Line 43, "group $2^{\text {n }}$ shouid read -m group R.H.S. 2A --.
Line 44, "Yellow group 2" should read -- Yellow group R.H.S. 2A --.

## Signed and Sealed this

Third Day of December, 2002


JAMESE ROGAN

(12) United States Plant Patent
(10) Patent No.: US PP14,290 P2
(45) Date of Patent:
(54) MANDEVILI A PLANT NAMED 'MONREY'
(50) Latin Name: Mandevilla $X$ amabills

Varietal Denomination. Monrey
(75) Inventor: Bruce Usrey, Dayton, OR (US)
(73) Assignee: Monrovia Nursery Company, Azusa, CA(US)
(6) Notice: 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.: 10162,387
(22)

Filed:
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Int. Cl. ${ }^{3}$ $\qquad$ A01H 5/00
(52) U.S. Cl. Pli./232
(58) Field of Search PIL232

Primary Examine - Kent Bell
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## ABstract

A distinct cultivar of Mandevilla plam named 'Monrey', chatacterized by its vining growth habit; glossy, dark green leaves; and large double pink-colored flowers with 20 petals per flower.

## 1 Drawing Sheet

## 1

Botanical classificationcultivar designtion: Mandevillax amabilis culivar Monrey.

## BACKGROUND OF THE INVENTION

The present Invention relates to anew and distinct cultivar of Mandevilla plant, botanically known as Mandevilhx amabilis, and hereinafter referred to by the name "Monrey".

The new Mandevila is a naturally-oxcurring branch mutation of the Mandevillaxamabilis cultivat Monite, disclosed in U.S. Plant Pat. No. 12,123. The new Mandevilia was discovered and selected by the Inventor on Jun. 29, 2001 in a controlled enwromment in Azusa, Callit, within a population of plants of the cultivar Monite.

Asexual repreduction of the new cultivar by lissue culure in a laboratory in Arasa, Calli, since August, 2001, has shown that the unique fealures of this new Mandevilla ate stable and reproduced true to type in successive generations.

## SUMMARY OF THE INVENTION

Plants of the cultivar Monrey have not been observed under all possible environmental conditions. The phenotype may vary somewhat with variations in environment such as temperature and light intensily without, however, any variance in genotype.

The following traits bave been repeatedly observed and are determined to be he unique characteristics of 'Monrey'. These characteristics in combiation distinguish 'Monrey' as a new and distinct cultivar of Mandevilla:

1. Vining growh habit.
2. Glossy, dark green leaves.
3. Large double pink-colored howers with 20 petals per flower.
Plants of the new Mandevilla differ from plants of the parent, the cultivar Monite, primarily in llower form as plants of the cultivar Monite bave single flowers with live petals.
Plants of the now Mandevilit can be compared to plants of the double llower Mandevilla cuttivar hita Maric Green. disclosed in U.S. Plan Par. No. 11,787. In side-by-side comparisons conducted in Azasa, Calit., plans of the new
cultivar difiered from plants of the cultivar Rita Maric Green in the tollowing characteristics:
4. Plants of the new Mandevilla had about 20 petals per flower whereas plants of the cultivar Ria Maric Green had about 10 petals per flower.
5. Flower petals of plants of the new Mandevila were not fused whereas flower petals of plants of the cultivar Rita Marie Green were fused.

## BRLEF DESCRIPTION OF THE PHOTOGRAPUS

The accompanying colored photographs illustrate the overall appearance of the new cultivar, showing the colors as true as it is reasonably possible to obtain in colored reproductions of this type. Colors in the photographs may differ slighty from the color values cited in the detailed botanical description which accurately describe the colors of the new Mandevilla.
The photograph at the left of the sheet comprises a side perspective view of typical plants of 'Monrey' grown in a five-gallon container.

The photograph at the right of the sheet comprises a close-up view of typical flowers, flower buds and leaves of 'Montey".

## DETALLD BOTANICAL DESCRIPTION

In the following description, color references are made to The Royal Honteultural Sociely Colour Chart, 1995 Edition, except where general terms of ordinary dictionary significance are used. Mants ased for the above-mentioned photographs and description were about ten months old when the photographs and description were taken. Five-gallon containers with three plants each wete grown under commercial production conditions in a clear polycthylenccovered greenhouse in Azusa, Calif. during the spring. During the production of the plants, day temperatures ranged from 27 to $32^{\circ} \mathrm{C}$. and night temperatures ranged from 4 to $16^{\circ} \mathrm{C}$.

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Parentage: Naturally-oceurriag branch mutation of Mandevillaxamabilis cultivar Monte, disclosed in U.S. Plant Pat. No. 12,123.
Propagation:
Type-By tissue culure.
Time to initiate roots on a micro-propagated plant.About 30 days.
Time to produce a rooted micro-propagated plant.About 200 days.
Root description.-Numerous, fibrous and ireely branching.
Plant description:
Form,-Perennal evergreen howeritg plant; Iwining vinc. Plants intially upright, then vining and requiring support to mainain upright habit. Plants are typically pinehed to enhance tateral branch development, potectially swo lateral branches form at every node.
Plam height (length).-Atrout 120 cm .
Plam diander, singte plant.-About 22 cm .
Vigar--Vigorous.
Lateral branches--L engh: Abou 32 cm . Diameter: About 3 mm . Interoode length: About 9 cm . Shape in crass-section: Round. Strengh: Mexibie, strong. Texture: Pubescent. Color: Young stems: 144A. Mature stems: 199A.
Foblage description--Atrangement: Oppesite, simple. Lengh: About 13 cm . With: About $6,2 \mathrm{~cm}$. Shape: Elliphic. Apex: Acuminate Base: Cordate. Margin: Eotire Texture, upper and lower surfaces: Rugose, leathery, durable; upper surface, glabrous; lower surface, pubescence on veins. Laster: Upper surface, glossy; lower surface, dull. Veration patternt Pinnate, arcuate. Petiole lengh: About 1.2 cm . Petiole diameter: About 5 mm . Color: Young foliage, uppe and lower surfaces: 146A. Fully expandea foliage, upper surface: 147 A . Fully expanded folidec, lower surface: 147B. Venation, upper surface: 145 B . Venation, lower surface: 145C. Petiole: 144 A to 144 B .
Flower desoription:
Flower type and habit,-Large double flowers atranged in loose elongated racemes, racemes axillary. About 14 flowers and llower buds per raceme; at full llower, about two or three developing racemes per plant. Flowers face mostly outward and droop from their weight. Mowers persistent, Flowers not fragrant.
Natural fowering season.-Spring until frost in the autum, flowering contimus.
Fower langevify on the plant.-About 10 to 14 days.
inflorescence length.-About 28 cm .

Inflorescence widh.-About 12.5 cm .
Flowers:-Appearance: Double flower form; llowers rounded. Diameter: About 11 cm . Depth (lenght): About 6 cm .
Flower budt (just showing color),-Length: About 2.4 cm . Diameter: About 1 cm . Shape: Ovoid. Color: 155A, towards apex, 155 A tinged with 56A.
Petals.-Quantity per flower: About 20 arranged in multiple whorls; overlapping; petals not lused at base. Length: About 6.5 cm . Widh: About 6 cm . Shape: Obovate to roughly spatulate. Apex: Rounded, occasionally emarginale. Base: Obtuse. Margin: Entre, simate; undulate. Texture, upper and lower surfaces: Smooth, velvety, slightly ruffed. Color: When opening, upper surface: 62B. When opening, lower surface: 62C to 63D, towards base, 155A. Fully opened, upper surface: Towards margin, 62 A ; center, 62 B ; towarts base, 62 C ; at base; 17 A . Color becomes closer to 62 C te 62 D with subsequent development. Fully opened, lower surface: 62D; towards base, 155A.
Sepals-Quantity: Five per flower in a single whorl; star-shaped calyx. Length: About 8 mm . Width: About 3 mor. Shape: Triangular. Apex: Acuminate. Base: Truncate. Margin: Entire, Texture, upper and lower surfaces: Smooth, glabrous. Color, upper and lower surfaces: 144A; towards apex, tinged with 6018.

Peduncles--Length: About 18 cm . Diameter: About 3 mon. Angle: About $30^{\circ}$ from stem. Stength: Flexible, moderately strong. Colon: 144A
Pedicles,-Lengh: About 5 cm . Diameter: About 2.5 mm . Angle: About 30 to $40^{\circ}$ from stem. Strength: Fexible, moderately strong. Color 144A.
Reproductive organs.-Stamens: Quantity per flower: No rue stamens, about five to seven sterile staminodes. Anther shape: Spatulate, elongated. Anther length: About 7 mm . Anther color: 16 C . Pollen: None observed. Pistils: None obscrved.
Seedifruit-Seed and fruit production has not been observed.
Diseasepest resistance: Mants of the new Mandevilla have not been noted to be resistant to pathogens and pests common to Mandevilla.
Weather tolerance: Plants of the new mandevilia have been observed to be tolerant to rain and wind and tolerant to temperatures from 0 to $43^{\circ} \mathrm{C}$.
It is clumed:

1. Anew and distinct cultivar of Mandevilla plant named 'Monrey', as illustrated and described.

*     *         *             * 




[^0]:    Botamical elaxsification: Mandevillaxamabils cultivar Monrey.

