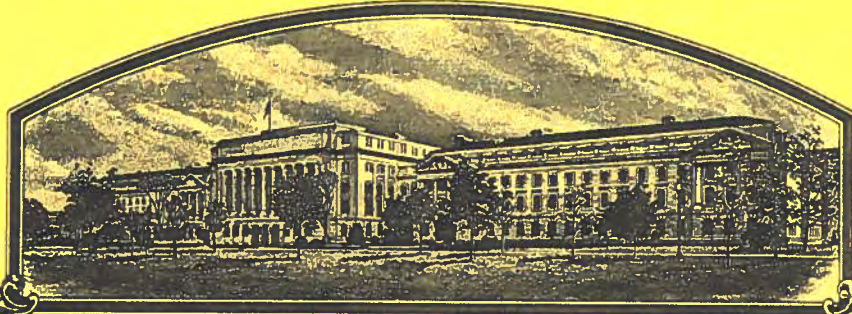


No.



202100168

# THE UNITED STATES OF AMERICA

**TO ALL TO WHOM THESE PRESENTS SHALL COME:**

## Ball Horticultural Company

Whereas, THERE HAS BEEN PRESENTED TO THE

Administrator of the Agricultural Marketing Service

An application requesting a certificate of protection for an alleged novel variety of sexually reproduced, asexually reproduced, or tuber propagated plant, the name and description of which are contained in the application and exhibits, a copy of which is hereunto annexed and made a part hereof, and the various requirements of law in such cases made and provided have been complied with, and the title thereto is, from the records of the PLANT VARIETY PROTECTION OFFICE, in the applicant(s) indicated in the said copy, and whereas, upon due examination made, the said applicant(s) is (are) adjudged to be entitled to a certificate of plant variety protection under the law.

Now, therefore, this certificate of plant variety protection is to grant unto the said applicant(s) and the successors, heirs or assigns of the said applicant(s) for the term of TWENTY years from the date of this grant, subject to the payment of the required fees and periodic replenishment of viable germplasm material of the variety in a public repository as provided by law, the right to exclude others from selling the variety, or offering it for sale, or reproducing it, or importing it, or exporting it, or conditioning it for propagation, or stocking it for any of the above purposes, or using it in producing a hybrid or different variety there from, to the extent provided by the PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)



VINCA

'PAS1357700'

In Testimony Whereof, *I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this tenth day of December, in the year two thousand twenty one.*

Attest:

Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service

Administrator  
Agricultural Marketing Service

<b>U.S. DEPARTMENT OF AGRICULTURE</b> AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE  <b>APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE</b> <i>(Instructions and information collection burden statement on reverse)</i>		The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.  Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).	
1. NAME OF OWNER <b>Ball Horticultural Company</b>		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME	3. VARIETY NAME <b>'PAS1357700'</b>
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) <b>622 Town Road  West Chicago, IL 60185 USA</b>		5. TELEPHONE (include area code) <b>630 588-3118</b>	<b>FOR OFFICIAL USE ONLY</b>
		6. FAX (include area code) <b>630 562-7671</b>	
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) <b>Corporation</b>		8. IF INCORPORATED, GIVE STATE OF INCORPORATION <b>IL</b>	9. DATE OF INCORPORATION <b>July 27, 1995</b>
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) <b>Audrey Charles 622 Town Road West Chicago, IL 60185 USA</b>		11. TELEPHONE (Include area code) <b>630 588-3118</b>	F I L E S  R E C O R D S  FILING AND EXAMINATION FEES: \$ <b>5150.00</b> DATE <b>1/11/2021</b>  CERTIFICATION FEE: \$ DATE
		12. FAX (Include area code) <b>630 562-7671</b>	
13. E-MAIL <b>acharles@ballhort.com</b>			
14. CROP KIND (Common Name) <b>vinca</b>		15. GENUS AND SPECIES NAME OF CROP <b>Catharanthus roseus</b>	
16. FAMILY NAME (Botanical) <b>Apocynaceae</b>			
17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input type="checkbox"/> NO		18. DOES THE VARIETY CONTAIN ANY TRANSGENES?(OPTIONAL) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO  IF YES, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR COMMERCIALIZATION.	
19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse) a. <input type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input type="checkbox"/> Exhibit B. Statement of Distinctness c. <input type="checkbox"/> Exhibit C. Objective Description of Variety d. <input type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input type="checkbox"/> Filing and Examination Fee (\$4,382), make checks payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office) other methods of payment explained in the instructions		20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act) <input type="checkbox"/> YES (If "yes", answer items 21 and 22 below) <input checked="" type="checkbox"/> NO (If "no", go to item 23) <input type="checkbox"/> UNDECIDED	
21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? <input type="checkbox"/> YES <input type="checkbox"/> NO  IF YES, WHICH CLASSES? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED		22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS. ____ FOUNDATION ____ REGISTERED ____ CERTIFIED <i>(If additional explanation is necessary, please use the space indicated on the reverse.)</i>	
23. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO  IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)		24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO  IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)	
25. The owners declare that a viable sample of basic seed will be furnished directly to an acceptable depository in support of the variety within three months of filing. Seed will be replenished upon request in accordance with such regulations as may be applicable. For a tuber propagated variety or vegetative propagated parent of the variety, a tissue culture or vegetative sample will be deposited in a public repository within three months of the date of the certificate fee request letter. These will be maintained for the duration of the certificate. The undersigned owner(s) is (are) the owner(s) of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.			
SIGNATURE OF OWNER <b>acharles@ballhort.com</b>  Digitally signed by acharles@ballhort.com DN: cn=acharles@ballhort.com Date: 2021.01.11 17:13:49 -0600		SIGNATURE OF OWNER	
NAME (Please print or type) <b>Audrey Charles</b>		NAME (Please print or type)	
CAPACITY OR TITLE <b>Patent Agent</b>	DATE	CAPACITY OR TITLE	DATE

**22. CONTINUED FROM FRONT** *(Please provide a statement as to the limitation and sequence of generations that may be certified.)*

**23. CONTINUED FROM FRONT** *(Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)*

U.S. sales to greenhouse for retail sales no earlier than January 17, 2020  
Korea sale to broker for resale no earlier than December 3, 2019

**24. CONTINUED FROM FRONT** *(Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)*

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE  <b>EXHIBIT A – ORIGIN AND BREEDING HISTORY</b> ** Use additional pages as needed.		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center; padding: 2px;">FOR OFFICIAL USE ONLY</th> </tr> <tr> <td style="text-align: center; padding: 5px;">                     PVPO NUMBER                       202100168                 </td> </tr> </table>	FOR OFFICIAL USE ONLY	PVPO NUMBER  202100168										
FOR OFFICIAL USE ONLY														
PVPO NUMBER  202100168														
1. Name of Owner  Ball Horticultural Company	2. Temporary Designation or Experimental Name	3. Variety Name  'PAS1357700'												
4. Describe the genealogy (back to and including public and commercial varieties, lines, or clones used) and the breeding method(s). **  The genealogy of 'PAS1357700' includes the following commercially available Catharanthus roseus accessions: 'Pacifica XP Burgundy' and Jams 'N Jellies™ Blackberry 'PAS926830' US PVP201100526.  Breeding methods include cross pollination, single plant selection, self-pollination, sib-pollination, and bulk harvest.														
5. Give the details of subsequent stages of selection and multiplication. **														
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; padding: 2px;">Year</th> <th style="text-align: center; padding: 2px;">Detail of Stage</th> <th style="text-align: center; padding: 2px;">Selection Criteria</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">Spring 2011</td> <td style="padding: 5px;">'Pacifica XP Burgundy' was cross pollinated with Jams 'N Jellies™ Blackberry 'PAS926830', US PVP201100526, to give rise to hybrid 4093.</td> <td style="padding: 5px;"></td> </tr> <tr> <td style="padding: 5px;">Spring 2012</td> <td style="padding: 5px;">Sib-pollination and bulk harvest of eight plants out of 4093, labeled 4093-M.</td> <td style="padding: 5px;">Basal branching, early flowering, large flowers with dark burgundy orifice, overlapping petals with deep burgundy petals.</td> </tr> <tr> <td colspan="3" style="padding: 5px;">This section repeated and continued on attached sheet.</td> </tr> </tbody> </table>	Year	Detail of Stage	Selection Criteria	Spring 2011	'Pacifica XP Burgundy' was cross pollinated with Jams 'N Jellies™ Blackberry 'PAS926830', US PVP201100526, to give rise to hybrid 4093.		Spring 2012	Sib-pollination and bulk harvest of eight plants out of 4093, labeled 4093-M.	Basal branching, early flowering, large flowers with dark burgundy orifice, overlapping petals with deep burgundy petals.	This section repeated and continued on attached sheet.				
Year	Detail of Stage	Selection Criteria												
Spring 2011	'Pacifica XP Burgundy' was cross pollinated with Jams 'N Jellies™ Blackberry 'PAS926830', US PVP201100526, to give rise to hybrid 4093.													
Spring 2012	Sib-pollination and bulk harvest of eight plants out of 4093, labeled 4093-M.	Basal branching, early flowering, large flowers with dark burgundy orifice, overlapping petals with deep burgundy petals.												
This section repeated and continued on attached sheet.														
6. Is the variety uniform? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  How did you test for uniformity?  'PAS1357700' was observed in trials of 32 plants at five locations in both 2016 and 2017, and six locations in 2019. 'PAS1357700' was judged to be uniform for color and habit. No variants or off-types were observed in either the breeder's seed increase or the stock seed increase.														
7. Is the variety stable? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  How did you test for stability? Over how many generations?  After the initial production of breeder seed by sib-pollination and bulk harvesting of seed on eight plants in 2014, see item 5 above, 'PAS1357700' was reproduced in the same fashion by using 30 plants in 2015, 100 plants in 2016, and 200 plants in 2018. 'PAS1357700' was judged to be uniform and stable across these four generations.														
8. Are genetic variants observed or expected during reproduction and multiplication? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  If yes, state how these variants may be identified, their type and frequency.														

**Exhibit A***Origin and breeding history Catharanthus 'PAS1357700'*5. Details of subsequent stages of selection and multiplication

<u>Year</u>	<u>Detail of Stage</u>	<u>Selection Criteria</u>
Spring 2011	'Pacifica XP Burgundy' was cross pollinated with Jams 'N Jellies™ Blackberry 'PAS926830', US PVP201100526, to give rise to hybrid 4093.	
Spring 2012	Sib-pollination and bulk harvest of eight plants out of 4093, labeled 4093-M.	Basal branching, early flowering, large flowers with dark burgundy orifice, overlapping petals with deep burgundy petals.
Fall 2012	Self-pollination of single plant selection out of 4093-M, labeled 4093-M-2.	Basal branching, early flowering, large flowers with dark purple orifice, overlapping petals with dark purple petals and dark purple center.
Spring 2013	Self-pollination of single plant selection out of 4093-M-2, labeled 4093-M-2-5	Basal branching, early flowering, large flowers with dark purple orifice, overlapping petals with dark purple petals and dark purple center.
Fall 2013	Self-pollination of single plant selection out of 4093-M-2-5, labeled 4093-M-2-5-5	Basal branching, early flowering, large flowers with dark purple orifice, overlapping petals with dark purple petals and dark purple center.
Spring 2014	Sib-pollination and bulk harvest of eight plants out of 4093-M-2-5-5, labeled 4093-M-2-5-5-M.	Basal branching, early flowering, large flowers with dark purple orifice, overlapping petals with dark purple petals and dark purple center.

Fall 2014	Evaluation of bulk harvested seed for uniformity. The bulk harvested seed was coded R0608D.	Uniformity for basal branching, early flowering, large flowers with dark purple orifice, overlapping petals with dark purple petals and dark purple center.
Spring 2015	Seed of R0608D was sent to Guatemala for small scale test production.	Observed in trials with 32 plants each in five locations in 2016 and judged to be uniform for color and habit.
Spring 2016	Seed of R0608D was sent to Guatemala for large scale test production.	Observed in trials with 32 plants each in five locations in 2017 and judged to be uniform for color and habit.
2017		Observed in trials with 32 plants each in five locations in 2017 and judged to be uniform for color and habit.
2018	Seed of R0608D was sent to Guatemala for commercial production. R0608D was later designated as cultivar 'PAS1357700'.	Observed in trials with 32 plants each in six locations in 2019 and judged to be uniform for color and habit.

Fall 2014	Evaluation of bulk harvested seed for uniformity. The bulk harvested seed was coded R0608D.	Uniformity for basal branching, early flowering, large flowers with dark purple orifice, overlapping petals with dark purple petals and dark purple center.
Spring 2015	Seed of R0608D was sent to Guatemala for small scale test production.	Observed in trials with 32 plants each in five locations in 2016 and judged to be uniform for color and habit.
Spring 2016	Seed of R0608D was sent to Guatemala for large scale test production.	Observed in trials with 32 plants each in five locations in 2017 and judged to be uniform for color and habit.
2017		Observed in trials with 32 plants each in five locations in 2017 and judged to be uniform for color and habit.
2018	Seed of R0608D was sent to Guatemala for commercial production. R0608D was later designated as cultivar 'PAS1357700'.	Observed in trials with 32 plants each in six locations in 2019 and judged to be uniform for color and habit.

U.S. DEPARTMENT OF AGRICULTURE  
 AGRICULTURAL MARKETING SERVICE  
 SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE  
 APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

FOR OFFICIAL USE ONLY

PVPO NUMBER

**EXHIBIT B – STATEMENT OF DISTINCTNESS**

**\*\* Use additional tables to present clear differences for additional comparison varieties.  
 Use additional pages to present supporting evidence.**

1. Name of Owner  Ball Horticultural Company	2. Temporary Designation or Experimental Name	3. Variety Name  'PAS1357700'
--	---	-------------------------------------

Based on overall morphology, 'PAS1357700' is most similar to Jams 'N Jellies™ Blueberry 'PAS1038424' 'PAS1357700' most clearly  
*Applicant's new variety* *Most similar comparison variety(ies)* *Applicant's new variety*  
 differs from Jams 'N Jellies™ Blueberry 'PAS1038424' in the following traits Name the specific trait. Then list the value of that trait for each variety in the comparison. Submit  
*Most similar comparison variety(ies)*

appropriate supporting evidence (see the [Guidelines for Presenting Evidence in Support of Variety Distinctness in the instructions](#)):

	<i>Eg. Leaf Pubescence</i> <i>Eg. Leaf Color</i> <i>Eg. Plant Height</i>	<i>heavy pubescence</i> <i>Dark Green (5GY 3/4)</i> <i>200 cm +/- 10 cm (N=25)</i>	<i>glabrous</i> <i>Light Green (2.5GY 8/10)</i> <i>250 cm +/- 15 cm (N=25)</i>	<i>photograph attached</i> <i>Munsell Color Chart</i> <i>statistics attached</i>
	1. Qualitative traits:	2. Color traits:	3. Quantitative traits:	4. Other traits:
Application Variety	'PAS1357700'  flat and smooth leaf morphology    photos attached	Pantone + The Plus Series  Petal    Purple            526CP Ring     Purple Black       276CP Orifice   Purple Black       276CP  photo attached		
Comparison Variety 1	'PAS1038424'  curled upper surface of immature leaves  leaf puckering on undersurface of mature leaves  photos attached	Pantone + The Plus Series RHS Sixth Edition  Petal    Purple            2602CP Ring     Purple Black       518C Orifice   Purple Black       518C  photo attached		
Comparison Variety 2				
Comparison Variety 3				

**\*\* Use additional tables to present clear differences for additional comparison varieties. Use additional pages to present supporting evidence.**



**EXHIBIT B***Statement of Distinctness of the Variety 'PAS1357700'*

'PAS1357700' is most readily distinguished from Jams 'N Jellies™ Blueberry 'PAS1038424', the most similar commercial variety available, by petal color and leaf morphology.

The petal color differences of 'PAS1357700' and 'PAS1038424', are illustrated as reasonably possible to make the same in color illustrations of this type in the photo of Figure 1. Color values were determined with the Pantone + The Plus Series color charts. These differences have been observed to be consistent over multiple trials.

**Figure 1: Petal color differences between 'PAS1357700' and 'PAS1038424'**

The 'PAS1357700' flower on the left illustrates the Purple (526CP) petal color with ring and orifice color of Purple Black (276CP). The 'PAS1038424' flower on the right illustrates the Purple (2602CP) petal color with ring and orifice color of Purple Black (518C).



The leaf morphological differences of 'PAS1357700' and 'PAS1038424' are illustrated in Figures 2 and 3. In Figure 2 upper surface leaf curling of immature leaves of 'PAS1038424' is shown, and in Figure 3 under surface leaf puckering of mature leaves of 'PAS1038424' is shown. These differences have been observed to be consistent over multiple trials.

**Figure 2: Leaf curling morphological differences between 'PAS1357700' and 'PAS1038424'**



**Figure 3: Leaf puckering morphological differences between 'PAS1357700' and 'PAS1038424'**



According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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202100168

**U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE AND TECHNOLOGY  
PLANT VARIETY PROTECTION OFFICE**

**Exhibit C**

**OBJECTIVE DESCRIPTION OF VARIETY  
Vinca (Catharanthus spp.)**

NAME OF APPLICANT (S)	TEMPORARY OR EXPERIMENTAL DESIGNATION	VARIETY NAME
ADDRESS (Street and No. or RD No., City, State, Zip Code and Country)		FOR OFFICIAL USE ONLY
		PVPO NUMBER  202100168

**PLEASE READ ALL INSTRUCTIONS CAREFULLY:**

In the spaces on the left, enter the appropriate numbers that describe the characteristics of the application variety. On the right, enter the appropriate numbers that describe the characteristics of the most similar comparison variety. Right justify whole numbers by adding leading zeros if necessary. The variety that you choose for comparison should be the most similar one in terms of overall morphology, background and maturity. The comparison variety should be grown in field trials with the application variety for 2-3 location/years (environments) in the region and season of best adaptability. In general, measurements of quantitative traits should be taken from one trial on 15-25 randomly selected plants or plant parts to obtain averages and statistics that describe a typical field of the variety.

Application Variety Data	Comparison Variety Data
<p><b>1. OVERALL PLANT HABIT (at flowering stage):</b></p> <p>Data Collection Site _____</p> <p><u>1</u> Species: 1 = C. roseus    2 = Other _____</p> <p><u>2</u> Ploidy: 1 = Haploid    2 = Diploid    3 = Triploid    4 = Tetraploid</p> <p><u>1</u> Life Cycle: 1 = Annual    2 = Biennial    3 = Perennial</p> <p><u>1</u> Growth Habit: 1 = Determinate    2 = Semi-determinate    3 = Indeterminate</p> <p><u>1</u> Growth Form: 1 = Upright    2 = Semi-prostrate    3 = Prostrate</p> <p><u>5</u> Flowering: 1 = Very Early    2 = Early    3 = Mid-season    4 = Late    5 = Continuous</p> <p><u>053</u> Days from Planting to First Flowering</p> <p><u>180</u> Length of Flowering Season in Days (until frost)</p> <p><u>20.1</u> cm Plant Height at Maturity</p> <p><u>23.7</u> cm Plant Width at Maturity</p> <p><u>3</u> Plant Height Class: 1 = Extra Dwarf    2 = Dwarf    3 = Semi-dwarf    4 = Tall</p> <p><u>2</u> Plant Width Class: 1 = Compact    2 = Semi-compact    3 = Spreading/Lax</p>	<p>Comparison Variety Name _____</p> <p><u>1</u> Species</p> <p><u>2</u> Ploidy</p> <p><u>1</u> Life Cycle</p> <p><u>1</u> Growth Habit</p> <p><u>1</u> Growth Form</p> <p><u>5</u> Flowering Season</p> <p><u>064</u> Days to First Flowering</p> <p><u>180</u> Days – Flowering Season Length (until frost)</p> <p><u>18.4</u> cm Plant Height</p> <p><u>16.3</u> cm Plant Width</p> <p><u>2</u> Plant Height Class</p> <p><u>1</u> Plant Width Class</p>
Application Variety Data	Comparison Variety Data

Application Variety Data

Comparison Variety Data

2. STEM:

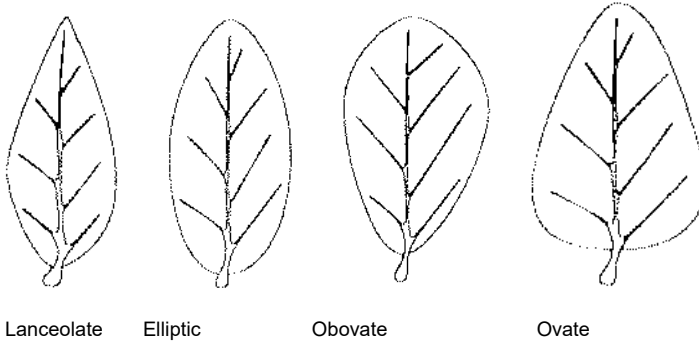
1 Profile: 1 = Straight 2 = Zig-Zag  
3 Branching Pattern: 1 = Single Stem 2 = Few Branches 3 = Many Branches  
22.1 cm Stem Length from Base of Stem to Terminal Flower  
0 Number of Internodes Below First Branch  
11 Number of First Order Branches (From Main Stem) (sometimes present)  
2 Stem Anthocyanin: 1 = Absent 2 = Along Veins Only 3 = Solid Coloration

1 Profile  
3 Branching Pattern  
19.7 cm Stem Length (total)  
0 Number of Internodes Below First Branch  
13 Number of First Order Branches  
2 Stem Anthocyanin (sometimes present)

3. FOLIAGE:

1 Leaf Type: 1 = Simple 2 = Compound  
1 Leaf Margin: 1 = Entire 2 = Serrate 3 = Other \_\_\_\_\_  
1 Leaf Odor: 1 = None 2 = Mild 3 = Strong  
1 Petiole Anthocyanin: 1 = Absent 2 = Mild 3 = Strong  
2 Leaf Shape: 1 = Lanceolate 2 = Elliptic 3 = Obovate 4 = Ovate

1 Leaf Type  
1 Leaf Margin  
1 Leaf Odor  
1 Petiole Anthocyanin  
2 Leaf Shape



35.5 mm Leaf Width  
85.8 mm Leaf Length

34.9 mm Leaf Width  
85.1 mm Leaf Length

LEAF DORSAL SIDE:

3 Leaf Color: 1 = Light Green 2 = Medium Green 3 = Dark Green 4 = Other (Describe) \_\_\_\_\_  
 Color Chart Name Pantone Color Chart Reading 2266C (closest to)  
1 Pubescence: 1 = Absent 2 = Light 3 = Heavy  
2 Luster: 1 = Dull 2 = Shiny

LEAF DORSAL SIDE

3 Leaf Color  
 Color Chart Reading 2266C  
1 Pubescence  
2 Luster

LEAF VENTRAL SIDE:

2 Leaf Color: 1 = Light Green 2 = Medium Green 3 = Dark Green 4 = Other (describe) \_\_\_\_\_  
 Color Chart Name Pantone Color Chart Reading 574C  
2 Pubescence: 1 = Absent 2 = Light 3 = Heavy  
2 Luster: 1 = Dull 2 = Shiny

LEAF VENTRAL SIDE

2 Leaf Color  
 Color Chart Reading 574C  
2 Pubescence  
2 Luster

Application Variety Data	Comparison Variety Data
<p><b>4. FLOWER:</b></p> <p><u>1</u> Type: 1 = Single 2 = Semi-Double 3 = Double</p> <p><u>1</u> Form: 1 = Flat 2 = Cupped 3 = Other _____</p> <p><u>1</u> Shape: 1 = Round (petals overlap) 2 = Intermediate 3 = Star (petals gapped)</p> <p><u>1</u> Flower Odor: 1 = None 2 = Mild 3 = Strong</p> <p><u>1</u> Pedicel Anthocyanin: 1 = Absent 2 = Faint 3 = Strong</p> <p><u>17</u> Number Flowers per Plant</p> <p><u>51.4</u> mm flower Diameter</p> <p><u>2.2</u> mm Orifice Size (including the opening of the corolla tube)</p> <p><u>4.5</u> mm Ring Width (From Outside Orifice to Edge of Color Band) (at widest point)</p> <p><u>23.7</u> mm Petal Width (At Widest Point)</p> <p><u>24.8</u> mm Petal Length (From Ring to Outer Edge)</p>	<p><u>1</u> Type</p> <p><u>1</u> Form</p> <p><u>1</u> Shape</p> <p><u>1</u> Flower Odor</p> <p><u>1</u> Pedicel Anthocyanin</p> <p><u>11</u> Number Flowers per Plant</p> <p><u>41.0</u> mm flower Diameter</p> <p><u>2.2</u> mm Orifice Size</p> <p><u>3.4</u> mm Ring Width (at widest point)</p> <p><u>20.8</u> mm Petal Width</p> <p><u>19.7</u> mm Petal Length</p>

**5. FLOWER COLORS:** (Note: Common Color Charts: RHS=Royal Horticultural Society Colour Chart; Munsell=Munsell Book of Color)

	Color Verbal Name	Color Chart Code	Color Chart Name		Color Name	Chart Code
EXAMPLE	Light Blue	106C	RHS			
Petal Color				Petal Color		
Ring Color				Ring Color		
Orifice Color				Orifice Color		
Other Color (describe location or placement)						

<p><b>6. SEEDS</b> (Measure Mature (Dry) Seeds):</p> <p><u>4</u> Seed Set: 1 = None 2 = Poor 3 = Fair 4 = Good 5 = Excellent</p> <p><u>4</u> Seed Coat Color: 1 = White 2 = Tan 3 = Brown 4 = Black 5 = Other _____</p> <p><u>1642.0</u> mg Weight per 1000 Seeds</p>	<p><u>4</u> Seed Set</p> <p><u>4</u> Seed Coat Color</p> <p><u>1501.5</u> mg Seed Weight</p>
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**7. RESISTANCE:** Test as many disease and insect reactions as possible before applying for protection. Tests for disease and insect reactions should include a resistant check and a susceptible check for each disease or insect being tested. When using disease resistance to describe distinctness, information on these checks should be included in the distinctness statement in support of the distinctness claim. Rate the application variety and the comparison variety on a scale of 1 (most susceptible) to 9 (most resistant) for each disease or insect reaction being reported. Give the scientific and common names of each disease/insect for completeness, and the race or strain, if known. **(Rate from 1 (most susceptible) to 9 (most resistant)):**

Rating	Disease/Insect Name (give race or strain, if known)		Rating	Disease/Insect Name
_____	_____		_____	_____
_____	_____		_____	_____
_____	_____		_____	_____
_____	_____		_____	_____

**8.** Attach ONE photographic print of the application variety and the comparison variety described above, indicating the identity of each variety. This photograph should show flower heads of each variety at a magnification sufficient to identify most of the verbal descriptors given above. (Additional comments and photographs in support of this application may be supplied as part of the Exhibits B or D.)



Comparison of Vinca 'PAS1357700' (left) with Vinca 'PAS1038424' (right)

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE  <b>EXHIBIT E - STATEMENT OF THE BASIS OF OWNERSHIP</b>	<b>FOR OFFICIAL USE ONLY</b> PVPO NUMBER  202100168
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1. Name of Owner  Ball Horticultural Company	2. Temporary Designation or Experimental Name	3. Variety Name  'PAS1357700'
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4. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. **If no, please explain.**  YES  NO

5. Is the applicant a U.S. national or a U.S. based entity? **If no, give name of country.**  YES  NO

6. Is the applicant the original owner?  YES  NO **If no, please answer one of the following:**

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?  
 YES  NO **If no, give name of country**

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?  
 YES  NO **If no, give name of country**

7. Additional explanation on ownership (*Trace ownership from original breeder to current owner. Use the reverse for extra space if needed*):

The breeding of variety 'PAS1357700' was conducted in Guadalupe, California at a Ball Horticultural Company research facility. Other than greenhouse technical staff, the breeders, Denis Flaschenriem and Ockert Greyvenstein, worked without others to develop this variety. Ockert Greyvenstein was and currently is an employee of Ball Horticultural Company. Denis Flaschenriem was an employee of Ball Horticultural Company during the breeding of the new variety. By agreement between the employees and Ball Horticultural Company, all rights and ownership of the variety resides with Ball Horticultural Company.

**PLEASE NOTE:**

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.