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(12) **United States Plant Patent**  
**Rat**

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(54) **PEONY PLANT NAMED ‘RTPIV 849-01’**

(50) Latin Name: *Paeonia lactiflora* x *Paeonia lutea*  
**hybrid**

Varietal Denomination: **RTPIV 849-01**

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(52) **U.S. Cl.**  
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CPC ..... *A01H 6/00* (2018.05)

(58) **Field of Classification Search**  
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CPC ..... *A01H 5/02*  
See application file for complete search history.

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(57) **ABSTRACT**

A new and distinct variety of peony plant having single to semi-double red flowers, a perennial herbaceous shrub, having a compact, symmetrically rounded, and vigorous growth habit, is disclosed.

**1 Drawing Sheet**

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Genus and species: *Paeonia lactiflora* x *Paeonia lutea*  
hybrid.  
Denomination: ‘RTPIV 849-01’.

**BACKGROUND**

‘RTPIV 849-01’ is a new and distinct variety of *Paeonia lactiflora* x *Paeonia lutea* hybrid. ‘RTPIV 849-01’ originated from a controlled cross in May 2012 in France between the *Paeonia lactiflora* female parent ‘Red Giant’ (unpatented) and the *Paeonia lutea* male parent ‘Boreas’ (unpatented).

The resulting seeds from the cross were collected and planted and evaluated in France. ‘RTPIV 849-01’ was selected in May 2018 from the population of seedlings in France. ‘RTPIV 849-01’ was first asexually propagated in September 2020 in France from vegetative cuttings.

‘RTPIV 849-01’ reproduces true to type in successive generations of asexual reproduction via vegetative cuttings.

**SUMMARY**

The following are the most outstanding and distinguishing characteristics of this new variety when grown under normal horticultural practices in France.

- 1. Single to semi-double red flowers; and
- 2. A perennial herbaceous shrub, having a compact, symmetrically rounded, and vigorous growth habit.

**DESCRIPTION OF THE PHOTOGRAPHS**

This new peony plant is illustrated by the accompanying photographs which show the plant’s overall plant habit including form, foliage, and flowers. The photographs are of a six to eight years-old plant grown outdoors in France in May 2019. The colors shown are as true as can be reasonably obtained by conventional photographic procedures.

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FIG. 1 shows a close-up of a mature open flower, a bud, and the foliage of ‘RTPIV 849-01’.  
FIG. 2 shows a close-up of an individual bud.

**DETAILED DESCRIPTION**

The following detailed descriptions set for the distinctive characteristics of ‘RTPIV 849-01’. The data which define these characteristics were collected outdoors in France in May 2018. The plants were six to eight years-old when the descriptions were taken. Color references are to The R.H.S. Colour Chart of The Royal Horticultural Society of London (R.H.S.) 2001, except where general terms of ordinary dictionary significance are used.

**Classification:**

*Family.*—Paeoniaceae.

*Species.*—*Paeonia lactiflora* x *Paeonia lutea* hybrid.

*Variety.*—‘RTPIV 849-01’.

**Parentage:**

*Female parent.*—*Paeonia lactiflora* female parent ‘Red Giant’ (unpatented).

*Male parent.*—*Paeonia lutea* male parent ‘Boreas’ (unpatented).

**Plant:**

*Type.*—Vegetative cuttings.

*Root description.*—Fleshy storage root.

*Rooting habit.*—Freely branching storage and feeder roots.

*Growth habit.*—Perennial herbaceous shrub; compact and symmetrically rounded; vigorous growth habit.

*Plant height.*—60.0 cm to 70.0 cm.

*Plant width.*—100.0 cm to 110.0 cm.

**Stem:**

*Quantity of flowers per branch.*—An average of 3.

*Length.*—60.0 cm to 70.0 cm.

*Diameter between first and 2nd leaf.*—1.0 cm.

*Internode length (highly variable).*—7.0 cm to 10.0 cm.  
*Aspect.*—Mostly upright.  
*Strength.*—Strong.  
*Color.*—RHS 145A (Yellow-Green).  
*Texture.*—Smooth.

Leaf:  
*Arrangement.*—Alternate, biternately compound with three primary leaflets further divided into second leaflets of variable number and form.  
*Leaf length (including petiole).*—30.0 cm to 35.0 cm.  
*Leaf width.*—25.0 cm.  
*Leaflet length (central).*—12.0 cm to 15.0 cm.  
*Leaflet width (central).*—12.0 cm to 15.0 cm.  
*Leaflet shape.*—Broadly elliptical, variably incised.  
*Leaflet apex.*—Broadly acuminate, often with emargination.  
*Leaflet base.*—Attenuate.  
*Leaflet margin.*—Deeply incised.  
*Leaflet texture (both upper and lower surfaces).*—Smooth, glabrous.  
*Leaflet venation pattern.*—Pinnate; reticulate.  
*Leaflet color.*—Upper surface: RHS 141A (Yellow-Green). Lower surface: RHS 191B (Yellow-Green).  
*Venation color.*—Upper surface: RHS 141A (Yellow-Green). Lower surface: RHS 145D (Yellow-Green).  
*Petiole.*—Length (of the 2nd leaf): 11.0 cm to 12.0 cm. Diameter: 0.5 cm. Color: RHS 145A (Yellow-Green).

Flower:

*Flower shape, arrangement and flowering habit.*—Single to semi-double flower/peduncle; flowers are terminal or axillary; flower face is upright to outward; flowers are arranged above the foliage.  
*Natural flower season (south-west of France).*—Plants begin flowering about 60 days after bud break in early spring.  
*Flower longevity.*—Flower last about 8 to 12 days on the plant.  
*Fragrance.*—Slight.  
*Flower buds.*—Length: 4.0 cm. Diameter: 3.0 cm. Shape: Globose. Color: RHS 184B (Red-Purple).  
*Flowers.*—Diameter: 16.0 cm to 18.0 cm. Depth: 7.0 cm. Petals: Quantity (main flower): 11 to 12. Length: 8.0 cm to 9.0 cm. Width: 6.0 cm to 7.0 cm. Shape: Rounded. Apex: Frequently emarginate. Base: Fused. Margin: Entire to slightly sinuate. Texture, upper and lower surfaces: Smooth, glabrous. Color (both upper and lower surfaces): RHS 53A (Red). Flare (both upper and lower surfaces): RHS 200A (Brown). Sepals: Quantity: 2 small and 3 large. Length: 3.5 cm. Width (outer): 3.5 cm. Shape: Obcordate to obovate; cupped. Apex: Mucronate. Margin: Entire. Color (both upper and lower surfaces): RHS 144C (Yellow-Green) at the base and the upper part is nuanced with RHS 64B (Red-Purple). Texture (both upper and lower surfaces): Smooth. Peduncles (main bud): Length: 15.0 cm to

20.0 cm. Diameter: 0.6 cm. Strength: Strong. Texture: Smooth, glabrous. Color: RHS 145A (Yellow-Green).

Reproductive organs:

5 *Stamen.*—Quantity per flower: About 80. Filament length: 2.5 cm. Filament color: RHS 32B (Orange-Red). Anther shape: Elongated and straight. Anther Length: 1.0 cm. Anther color: RHS 6D (Yellow). Pollen amount: Moderate. Pollen color: RHS 5B (Yellow).  
 10 *Pistil.*—Quantity per flower: 3 to 4. Length: 3.0 cm. Stigma shape: Claw-shaped, convex. Stigma color: RHS 53A (Red). Ovary color: RHS 142C (Green-Yellow). Ovary appearance: Fluffy.  
 15 *Floral disk.*—Strength: Strong. Diameter: 2.5 cm to 3.0 cm. Color: RHS 142D (Green-Yellow).  
 Fruit and seed set: Seed production has not been observed. Disease and insect resistance: Excellent resistance; but no particular susceptibility to diseases or pests.  
 Temperature tolerance: Hardy like other intersectional hybrid peonies.

COMPARISON WITH PARENTAL AND COMMERCIAL LINES

25 Table 1 shows a comparison of differences between ‘RTPIV 849-01’ and both parental lines.

TABLE 1

Comparison with Parental Lines			
Characteristic	‘RTPIV 849-01’	Female parent, ‘Red Giant’	Male parent, ‘Boreas’
Flower color	Red	Dark red	Dark burgundy-red

35 Table 2 shows a comparison of the differences between ‘RTPIV 849-01’ and the commercial peony variety ‘Coral Charm’ (U.S. Plant Pat. No. 4,247).

TABLE 2

Comparison with Commercial Line		
Characteristic	‘RTPIV 849-01’	‘Coral Charm’
Flower color	Red	Orange-coral

50 When ‘RTPIV 849-01’ is compared with its sibling, peony variety ‘RTPIV 849-04’ (U.S. Plant patent application Ser. No. 17/340,697), there are the following differences between the two varieties: ‘RTPIV 849-01’ has a plant height of 60 cm to 70 cm, a stem length of 60 cm to 70 cm and no petaloids, while ‘RTPIV 849-04’ has a plant height of 80 cm to 90 cm, a stem length of 80 cm to 90 cm, and has petaloids.

55 I claim:

1. A new and distinct variety of peony plant designated ‘RTPIV 849-01’ as illustrated and described herein.

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FIG. 1



FIG. 2