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Jauchen

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(54) **MINIATURE ROSE PLANT ‘PACFIFTY’**

(50) Latin Name: *Rosa hybrida*
Varietal Denomination: **PACfifty**

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See application file for complete search history.

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(57) **ABSTRACT**

A new miniature rose plant which was abundant, yellow colored flowers and attractive foliage. The variety successfully propagates from softwood cuttings and is suitable for year round production in commercial glass houses as a flowering pot plant. This new and distinct variety has shown to be uniform and stable in the resulting generations from asexual propagation.

2 Drawing Sheets

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Botanical designation: *Rosa hybrida*.
Variety denomination: ‘PACfifty’.

BACKGROUND OF THE INVENTION

The present invention constitutes a new and distinct variety of miniature rose plant, which was developed by artificially pollinating an unnamed seedling (not patented) with an unnamed seedling (not patented). The two parents were crossed in the summer of 2004 and the resulting seed was sown in December 2004, in a controlled glasshouse environment. Out of these seedlings one seedling was selected, as the new variety and named ‘PACfifty’. The new rose may be distinguished from its seed parent, an unnamed seedling, by the following combination of characteristics:

1. ‘PACfifty’ has medium double flowers, while the unnamed seedling has medium single flowers.
2. ‘PACfifty’ has yellow colored petals, while the unnamed seedling has orange petals.

The new variety may be distinguished from its pollen parent, an unnamed seedling created by the same inventor, by the following combination of characteristics:

1. ‘PACfifty’, has medium double flowers, while the unnamed seedling has medium double flowers.
2. ‘PACfifty’ yellow colored petals, while the unnamed seedling has dark yellow petals.

BRIEF SUMMARY OF THE INVENTION

Initial asexual reproduction of ‘PACfifty’ by cuttings was first done in Santa Barbara, Calif., USA. This initial and other subsequent propagations conducted in controlled environments have demonstrated that the characteristics of ‘PACfifty’ are true to type and are transmitted one generation to the next. ‘PACfifty’ is a low and compact miniature rose with good vigor. The objective of the hybridization of this rose variety for commercial greenhouse culture was to create a new and distinct variety with:

1. Uniform and abundant flowers with good keepability;
2. Attractive long lasting foliage and compact growth;

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3. Year round flowering under glasshouse conditions;
4. Suitability for production from softwood cuttings in pots;
5. Durable flowers and foliage which make the variety suitable for distribution in the floral industry.

This combination of qualities was not present in previously available commercial cultivars of this type, known to the inventor, and distinguish ‘PACfifty’ from all other varieties of which I am aware.

The seeds from hybridization were planted in a controlled environment and evaluations were conducted on the resulting plants. ‘PACfifty’ was selected by, Daniel Jauchen, in his development program in Santa Barbara, Calif., USA.

BRIEF DESCRIPTIONS OF THE DRAWINGS

The accompanying color illustrations show as true as is reasonably to obtain in color photographs of this type, the typical characteristics of the buds, flowers, leaves, stems of ‘PACfifty’. Specifically illustrated in the drawings:

- 1: Young shoot.
- 2: Bud before opening the sepals.
- 3: Bud at the stage of opening the sepals.
- 4: Bud at the stage of opening the petals.
- 5: Flower during course of opening.
- 6: Open flower—plan view—obverse.
- 7: Open flower—plan view—reverse.
- 8: Fully open flower—plan view—obverse.
- 9: Fully open flower—plan view—reverse.
- 10: Receptacle showing stamens and pistils.
- 11: Receptacle showing pistils (stamens and sepals removed).
- 12: Flower petals, detached—inner surface.
- 13: Flower petals, detached—outer surface.
- 14: Bare stem exhibiting thorns and flower attachment.
- 15: Three leaflets upper side.
- 16: Three leaflets reverse side.
- 17: Five leaflets upper side.
- 18: Five leaflets reverse side.

DETAILED BOTANICAL DESCRIPTION OF THE
VARIETY

The following is a detailed description of the Miniature Rose: *Rosa hybrida* 'PACfifty'.

The following observations, measurements, values and comparisons describe plants grown in glass houses in Santa Barbara, Calif., USA.

The age of the observed plants were 3 months after propagation by cuttings, and produced as flowering pot plants in container of 10 centimeter in diameter. Environmental conditions in the cultivation area for the observed plants, has been temperatures from 64 to 78 degrees Fahrenheit, and 10 to 20 hours day length with assimilation light. Light levels from 600 foot candle to 6000 foot candle. The relative humidity has been ranging from 50 to 85%.

Color references are made using The Royal Horticultural Society (London, England) Colour Chart, 1995, except where common terms of color are used. For a comparison, the nearest existing rose variety is 'POULsun', a rose variety described and illustrated in U.S. Plant Pat. No. PP 9,716.

Chart 1 details several physical characteristics of 'PACfifty' and 'POULsun'.

CHART 1

	'PACfifty'	'POULsun'
Petal color, Upper surface	Yellow Group 12A	Yellow Group 13A
Petal color, Reverse surface	Yellow Group 12A	Yellow Group 13B
Petal count	45 to 50	30 to 35

Parents.—Unnamed seedling times unnamed seedling.

Classification:

Botanical.—*Rosa hybrida*.

Commercial.—Miniature.

Plant:

Plant growth.—Moderately vigorous. Grows compact upright to bushy. When grown as 10 cm pot plant, the average height of the plant itself is 18 cm to 20 cm, and average width is 20 cm. When grown as a 15 cm pot plant, the average height of the plant itself is 22 cm to 27 cm, and average width is 30 cm.

Stem:

Color.—Young wood: Yellow-Green Group 146A, with intonations of Greyed-Orange 172A. Older wood: Green Group 137B.

Thorns.—Incidence: 5 to 6 per stem. Size: 1 to 2 mm.

Form: Deep concave. *Color:* Green-White Group 157D, with intonations of Greyed-Purple Group 184A.

Surface.—Young wood: Smooth. Older wood: Smooth.

Stem diameter.—2 mm to 3 mm.

Internode length.—25 mm to 35 mm.

Numbers of internodes.—5 to 6.

Plant foliage: Leaves arranged alternately, compound with 3 to 5 leaflets per leaf, generally symmetrical, abundant, and flat in aspect. Stipules at petiole base.

Quantity of leaves.—5 to 6 per lateral branch.

Leaf size.—Length 35 mm to 55 mm, width 30 mm to 45 mm.

Petioles.—Color: Green Group 137A, with intonations of Greyed-Purple Group 184A. Margins: Entire. Length: 4 mm to 7 mm Diameter: about 0.5 mm to 1 mm.

Stipules.—Size: Length 2 mm to 5 mm, width 1 mm to 2 mm. Surface: Smooth. Color for upper surface: Green Group between 137A and 137C, Color for lower surface: Green Group between 137 B and 138 D. Margins: Entire.

Rachis.—Color: Green Group 137A, with intonations of Greyed-Purple Group 184A. Margins: Entire. Length: 10 mm to 15 mm. Diameter: 0.5 mm to 1 mm.

Leaflets.—Edge: Serrated. Serration: Single. Shape: Ovate with acute apex and obtuse base. Texture: Smooth. Appearance: Dull. Size: length: 10 mm to 30 mm, width: 5 mm to 20 mm. Color: Young foliage. Upper surface: Green Group 137A. Edge with intonations of Greyed-Orange 172A. Lower surface: Green Group 137B, with intonations of Greyed-Orange 172A. Color: Mature foliage: Upper surface: Green Group 136A. Lower surface: Green Group 137C. Leaf vein color: Upper surface: Green Group 137D. Reverse surface: Green Group 138D.

Inflorescence:

Blooming habit.—Recurrent.

Number of flowers.—Generally one to five buds per flowering stem.

Peduncle.—Color: Green Group 137B. Texture: Smooth. Length: 10 mm to 30 mm Diameter: 1 mm to 2 mm. Strength: Upright.

Receptacle.—Surface: Smooth, glabrous. Shape: Funnel-shaped. Size: height 4 mm to 7 mm, width 3 mm to 4 mm. Color: Green Group 137B.

Sepals.—Quantity: Five. Shape: Narrowly ovate with acute tip. Texture: Leathery. Margin: Foliaceous appendages on two of the five sepals. Appearance: Dull. Color: Upper surface: Green Group 137B, Reverse surface: Green Group between 138A and 138C. Size: Length 20 mm to 25 mm, width 3 mm to 5 mm.

Buds.—Size: Height 10 mm to 15 mm, diameter 7 mm to 9 mm, Upon opening. Shape: Ovoid. Color: at ¼ opening, Yellow Group 13A.

Flower.—Duration: As a pot plant, flowers last from 10 to 15 days. Fragrance: Slightly spicy. Size: 35 mm to 55 mm in diameter. Depth: 15 mm to 20 mm. Form: Shape of flower when viewed from the side: Upon opening: Cupped to ovoid. Open flower: Flat. Color: Petals, upon opening: Upper surface: Yellow Group 12A. Reverse surface: Yellow-Group 12A, Petals after opening: Upper surface: Yellow Group 12A. Reverse surface: Yellow Group 12A. General tonality: On open flower: Third day: Yellow Group 13A. Afterwards: Yellow Group 13A.

Petals.—Petal reflex: Outermost petals reflex backwards at opening. Fully open all petals reflex backwards. Texture: Smooth. Petal edge: Entire. Petal count: 45 to 50 on the average per flower. Petal size: Length 20 mm to 22 mm, width 10 mm to 20 mm. Shape: Outer petals: Round-ovate. Inner petals: Ovate. Apex: Rotundate. Base: Obtuse to rotundate. Petaloids: none.

Reproductive organs.—Stamen number: Approximately 25 to 30 on average per flower. Stamens length: 4 mm to 5 mm. Pollen: Color: Greyed-Orange Group 167A. Abundance: Heavy. Anthers: Size: 1 mm to 1.5 mm Color: Greyed-Orange Group 167A. Shape: Oblong. Filaments: Size: 3 mm to 4 mm. Color: Yellow Group 12C. Pistils number: Approximately 35 to 40 on average per flower. Stig-

mas: Location: Protrude more than the anthers.
 Color: Greyed-Orange Group 167D. Styles: Color:
 White-Green Group 155C, with heavy intonations of
 Red-Purple Group 61B. Length: 6 mm to 7 mm.

Development:

Vegetation.—Dense.

Blooming.—Abundant.

Aptitude to bear fruit.—Poor.

Resistance to diseases.—Above average resistance to mildew and Botrytis under normal growing conditions in Santa Barbara, Calif., USA. Hips/seeds has not been observed due to that the plant has never been grown to the stage of seed development, due to the fact, that the variety is developed for use as a flowering pot plant only.

Winter hardiness & drought/heat tolerance.—Due to the fact, that this variety is a potted flowering plant, developed indoor use only, the plant is not tested for winter hardiness or drought/heat tolerance.

It is claimed:

1. A new and distinct variety of Rose plant of the miniature class, substantially as herein illustrated and described as a distinct and novel rose variety due to its abundant yellow flowers, attractive long lasting foliage, vigorous and compact growth, year round flowering under glasshouse conditions, suitability for production from softwood cuttings in pots, and durable flowers and foliage which make the variety suitable for distribution in the floral industry.

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