



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

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(54) **HIBISCUS PLANT NAMED ‘PURPLE HEARTS’**

(50) Latin Name: *Hibiscus moscheutos*×*hybrida*
Varietal Denomination: **Purple Hearts**

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(58) **Field of Classification Search**
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See application file for complete search history.

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(57) **ABSTRACT**

A new and distinct cultivar of winter hardy *Hibiscus* plant named ‘Purple Hearts’ is the result of a unique hybridization. This new and distinct cultivar is characterized primarily as to its novelty by its extreme cold hardiness to Zone 4, medium thick-textured, Deep Red flowers and its “Heart-shaped” foliage with a dark-purple coloration, compactness of approximately 2½-3½ feet, its vigorous and uniform breaking habit and its floriferous nature from midsummer until frost.

1 Drawing Sheet

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Latin name: “*Hibiscus moscheutos*×*hybrida*”.
Varietal denomination: ‘Purple Hearts’.

FIELD OF THE INVENTION

This plant, as a hybridized hardy *Hibiscus*, is valuable to the landscape market for its improvements in large thicker textured, dark red flowers with dark purple buds, refined cordate, “heart-shaped” foliage with a dark purple color, its all-around vigor, good compact breaking action, and adaptation to extreme environments, including the ability to consistently survive winter temperatures of at least –30 degrees Fahrenheit.

BACKGROUND OF THE NEW PLANT

The new plant of this invention is the result of a unique hybridization, with the breeding achievement being evidenced in the outstanding combination of characteristics exhibited by this new and distinct *Hibiscus* plant, which include:

- Refined, ovate leaves of a dark purple color and relatively smooth margins which combined compliments the landscape;
- Large flowers that are outstanding for their dark red colored petals (on both sides);
- The plant being very floriferous with flowers that stay open for at least one (to two days, if cool);
- The plant being small in size but vigorous with compact and uniform breaking action which gives it unique landscape utility; and
- The plant being so hardy that it can consistently withstand winter temperatures of at least –30 degrees Fahrenheit .

SUMMARY OF THE INVENTION

- ‘Purple Hearts’ was the result of a 68-year breeding program. Its ancestry includes *Hibiscus moscheutos*

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and *Hibiscus coccineus*. More specifically, the plant resulted from multiple crossings with an unnamed, Fleming-bred *Hibiscus moscheutos* (non patented) and an unnamed Fleming-bred *Hibiscus coccineus* (non patented). The seedling which most nearly met all of the above standards was selected.

- This new plant first bloomed in the summer of 2008 and was selected by Gretchen Zwetzig on her property located at 267 N Strathmore Ave, Lindsay Calif. and also at previous address Skyline Dr, Lincoln, Nebr. Asexual propagation of the plant by cuttings and root division in Lindsay, Calif. and Lincoln, Nebr. has shown that the unique and distinguishing features of the plant are faithfully transmitted from generation to generation and appear to be fixed.
- Since its origin, the plant has bloomed from midsummer until frost, while exhibiting the aforementioned distinctive characteristics. This hardy *Hibiscus* plant greatly contributes to the market with its, bold and stunning beauty and utter refinement, its compact growth habit, its enhanced resistance to disease and insects, its stability through extremes in rain and drought, and its extreme hardiness.

BRIEF DESCRIPTION OF THE DRAWINGS

- The flower and foliage of the cultivar at 2½ years of age are shown in the attached photograph. More specifically, FIG. 1 is a close-up of the flower and the leaf. The colors are as true as is reasonably possible to attain in photographic illustrations of this type. The colors illustrated may be slightly off due to light reflectance.

DESCRIPTION OF THE NEW PLANT

- What follows is a detailed description of the new cultivar. The specific color descriptions are in accor-

dance with The Royal Horticultural Society Colour Chart (2001), while general color recitations are consistent with ordinary American terminology.

7. 'Purple Hearts' has not been observed under all possible environmental conditions. It is to be understood that the phenotype may vary significantly with variations in the environment such as temperature, light intensity, humidity, and day length without, however any difference in genotype of the plant. The following botanical characteristics and observations are gathered from the plant when grown in Lincoln, Nebr. (USDA Zone 4) and Lindsay, Calif. (USDA Zone 9).

THE PLANT

Parentage:

Seed parent.—*Hibiscus moscheutos*, unnamed and unpatented Fleming-bred seedling.

Pollen parent.—*Hibiscus coccineus*, unnamed and unpatented Fleming-bred seedling.

Comparison between observed plant and parents: Parents were similar, except for being approximately 1½ foot taller in height than Observed Plant.

Comparison between observed plant and other known cultivars: The Observed Plant is unique, but most similar to patents: Robert Fleming U.S. Plant Pat. No. 14,776 among the other patented hardy *Hibiscus* from Gretchen Zwetzig, in that:

- (a).—They are all more compact at 3 feet on average.
- (b).—They are all hardy to -30 degrees Fahrenheit.
- (c).—They all have refined new leaf shapes and colors.
- (d).—They all have thick unique flower petal colors with blooms from the top to the bottom of the plant.

Origin: A selected seedling from stated cross.

Type of plant: Hardy, herbaceous perennial.

Classification: Variety of hardy *Hibiscus* plant.

Propagation: Relatively easy to propagate through cuttings; holds its distinguishing characteristics through successive cuttings and divisions.

Size: About 3 feet tall and about 2½ to 3 feet wide.

Form: Symmetrical annual growth from perennial roots.

Habit: Upright and uniformly branched.

Growth: Vigorous; medium and compact. Full grown (3½ ft) in 2 years. 2 ft 8 inches or 36 inches when measured.

Hardiness: Hardy to at least -30 degrees Fahrenheit.

General health: Plant is very disease resistant against rot, aphids, spider mites, scale, white fly etc.; sturdy through excessive drought, rain or wind.

Propagation: Relatively easy and fast rooting in approximately 3 weeks.

Foliage:

1. *Arrangement.*—Alternate.
2. *Shape.*—Juvenile: Ovate leaves. Very Rounded base shape. Mature: Refined, ovate leaf with entire to mildly serrate margins and acute apice; rounded base.
3. *Size.*—Mature leaf (petiole base to apex): Length is about 6 inches width is about 3 inches. Young leaf: Length 2½ inches, width is 1½ inches.
4. *Color.*—Young leaves: N 77-A Green coloration not detectable by photographs (147 A). Mature leaves: (upper side): N 77-A and N 79-A. Veins: Venation pattern: Palmate. Venation Color: N 79-A.

Coloration of the lower leaf surface: Mature: Between 148-B and 149-B. Young: closest to 147-B.

5. *Surface texture.*—Upper: Smooth. Lower: Semi-smooth.

6. *Petiole length.*—About 2¾ inches. Diameter: ⅛ inch.

7. *Petiole color.*—137-A and N 77-A.

Stems: The stems are stout at the base becoming more slender toward the apices; coloration is consistent with the petiole.

Length: 2-3 inches. Diameter: ⅛ to ⅛ inch.

Internode length: Apx. 2 inches.

Texture: Semi-smooth.

THE FLOWER

Blooming period: Profuse from June/July until frost, depending of whether South/North U.S.

Flower diameter: Medium to large; about 9-11 inches.

Borne: Singly in leaf axils, from midpoint of stems upward.

Bloom duration: Individual bloom lasts at least one to two full days.

Form: Campanulate; petals are also very overlapping.

Average number of flowers per season: 300

Bud:

1. *Length.*—About 2¼ inches on day before opening. Diameter: apx. 2 inches.
2. *Color.*—N 77.
3. *Surface texture.*—Semi-glabrous.
4. *Duration.*—One to two weeks.

Corolla: Having five petals.

1. *Petal character and dimensions.*—Campanulate and very overlapping. (a) Length: About 4-5 inches. (b) Width: About 4-5 inches.
2. *Coloration.*—Dark Red petals: Between 53 A and 59 A. (a) Coloration of lower petal surface: Between 53 A and 59 A. (b) Upper and Lower Venation (through veins) in petals: A little darker than 59 A. (c) Eye zone: 59 A. Size: 1½ inches.
3. *Texture.*—Smooth.
4. *Substance.*—Thick.
5. *Shape.*—Campanulate and very overlapping with petal ruffles at edges.

Reproductive organs:

1. *Staminal column.*—Stamen along basal two-thirds. One per flower. Apx. 100 stamens per flower. Stamen length: About 1½ inches. Stamen color designation: 2-D. Pollen color: 12-B.
2. *Style.*—Terminates upper one-third of staminal column. Length ½ to 1 inch. Color: 11-A. Stigmatic lobe color: 11-A (tips: 63-A). Stigma average size: ⅛ to ⅛ inch.

Calyx: Shape: 5 lobed, connate at the base; about 2½ inches in length. Upper and Lower Color: Medium green: 146-A. Surface Texture: Semi-Smooth.

Stipules: None.

Seeds (fruit): Size: 1 cm. Color: Grey-brown (RHS 166 B). Average number: Less than 100.

Epicalyx: Whorl of bracts.

1. *Shape.*—10-12 slender, sword-shaped bractlets.
2. *Length.*—About 1½ inches.
3. *Color.*—144-A.

Peduncle:

1. *Length.*—About 2 inches. Diameter: 1 cm.
2. *Strength.*—Stiff and sturdy.
3. *Color.*—Light to medium green with slight reddish-purple cast. 148-A and 175 A.
4. *Texture.*—Semi-smooth.

The invention claimed is:

1. A new and distinct cultivar of hardy *Hibiscus* plant, as herein shown and described, characterized by its compact nature, refined "heart-shaped" foliage of an extremely dark purple coloration, its large dark red thick and slightly ruffled flowers, its vigor and its hardiness in weather extremes.

