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**(12) United States Plant Patent  
Danziger****(10) Patent No.: US PP17,379 P3****(45) Date of Patent: Jan. 23, 2007****(54) DOUBLE *IMPATIENS* PLANT NAMED  
'DANMUORGLOW'****(51) Int. Cl.**  
*A01H 5/00* (2006.01)(50) Latin Name: *Impatiens walleriana*  
Varietal Denomination: **Danmuorglow****(52) U.S. Cl. .... Plt./317**(75) Inventor: **Gabriel Danziger**, Moshav Nir-Zvi (IL)**(58) Field of Classification Search** ..... Plt./317  
See application file for complete search history.(73) Assignee: **Danziger "Dan" Flower Farm**, Post  
Beit Dagan (IL)*Primary Examiner*—Kent Bell(\*) Notice: Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 0 days.**(74) Attorney, Agent, or Firm**—Foley & Lardner LLP(21) Appl. No.: **11/138,261****(57) ABSTRACT**(22) Filed: **May 27, 2005**A new and distinct Double *Impatiens* plant named 'Dan-  
muorglow' characterized by having compact and rounded  
growth habit; double, orange colored flowers; green colored  
leaves; and good branching.**(65) Prior Publication Data**

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**2 Drawing Sheets****1**Botanical designation: *Impatiens walleriana*.  
Variety denomination: 'Danmuorglow'.**BACKGROUND OF THE INVENTION**The present invention relates to a new and distinct cultivar  
of Double *Impatiens* plant, botanically known as *Impatiens*  
*walleriana*, herein after referred to by the cultivar name  
'Danmuorglow'.The new Double *Impatiens* cultivar is a product of a  
planned breeding program conducted by the Inventor, Gab-  
riel Danziger, in Moshav Mishmar Hashiva, Israel. The  
objective of the breeding program is to develop a new  
Double *Impatiens* variety with compact and rounded,  
growth habit, orange colored flowers, green colored leaves,  
and good branching habit.The new *Impatiens* cultivar originated from a cross made  
in a controlled breeding program by the Inventor, Gabriel  
Danziger, in 2003 in Moshav Mishmar Hashiva, Israel. The  
female or seed parent is the *Impatiens walleriana* cultivar  
designed '477 HF' (unpatented) and is characterized by  
having single, orange colored flowers and a compact, growth  
habit. The male or pollen parent is the *Impatiens walleriana*  
cultivar designated '326 HF' (unpatented) and is character-  
ized by having semi-double, salmon colored flowers. 'Dan-  
muorglow' was discovered and selected by the Inventor in  
May of 2003 as a flowering plant within the progeny of the  
stated cross in a controlled environment in. Moshav Mish-  
mar Hashiva, Israel.Asexual reproduction of the new cultivar by stem tip  
cutting was first performed in July of 2003 in Moshav  
Mishmar Hashiva, Israel, and has demonstrated that the  
combination of characteristics as herein disclosed for the  
new cultivar are firmly fixed and retained through successive  
generations of asexual reproduction. The new cultivar repro-  
duces true-to-type.**2****BRIEF DESCRIPTION OF THE INVENTION**The following traits have been repeatedly observed and  
are determined to be unique characteristics of the new  
Double *Impatiens* cultivar 'Danmuorglow' which in combi-  
nation distinguish this Double *Impatiens* as a new and  
distinct cultivar:

1. Compact and rounded growth habit;
2. Double, orange colored flowers;
3. Green colored leaves; and
4. Good branching.

Plants of the new Double *Impatiens* 'Danmuorglow' differ  
from plants of the parents, '477 HF' (unpatented) and '326  
HF' (unpatented) in the following characteristics described  
in Table 1:**TABLE 1**

Trait	New Cultivar 'Danmuorglow'	Female Parent '477 HF' (unpatented)	Male Parent '326 HF' (unpatented)
Color of opening petals (upper surface):	Orange-red group, RHS N 30 B	Orange-red group, RHS 32 A	Red group, RHS 52 C
Flower Type	Double flower	Single flower	Semi-double flower
Leaf size	Length: 4 cm Width: 3 cm	Length: 5 cm Width: 3 cm	Length: 6 cm Width: 3.5 cm
Plant height	12 cm	15 cm	18 cm

Of the many commercial cultivars known to the present  
Inventor, the most similar in comparison to the new Double  
*Impatiens* cultivar 'Danmuorglow' is a Double *Impatiens*  
called 'Fiesta Deep Orange'. In side-by-side comparisons  
conducted in Moshav Mishmar Hashiva, Israel, plants of  
'Fiesta Deep Orange' differed from plants of 'Danmuor-  
glow' primarily in flower color and leaf color as provided in  
Table 2:

TABLE 2

Trait	New Cultivar 'Danmuorglow'	Comparison Cultivar 'Fiesta Deep Orange'
Color of opening petals (upper surface):	Orange-red group RHS N 30B	Orange-red group RHS N 30A
Leaf color	Green group RHS 137C	Green group RHS 137A
Plant height	12 cm	14 cm

## BRIEF DESCRIPTION OF THE DRAWINGS

The accompanying colored photographs illustrate the overall appearance of the new Double *Impatiens* cultivar 'Danmuorglow' showing the colors as true as is reasonably possible with colored reproductions of this type. Colors in the photographs may differ slightly from the color values cited in the detailed botanical description which accurately describe the color of the 'Danmuorglow'.

The first photograph shows a side view perspective of a typical 'Danmuorglow' potted plant at 3 months.

The second photograph shows a close-up view of typical flowers and leaves of 'Danmuorglow' at 3 months.

## DETAILED BOTANICAL DESCRIPTION

The new Double *Impatiens* cultivar 'Danmuorglow' has not been observed under all possible environmental conditions. The phenotype of the new cultivar may vary with variations in environment such as temperature, light intensity, and daylength, without any change in the genotype of the plant.

The aforementioned photographs, together with the following observations, measurements and values describe plants of the new Double *Impatiens* cultivar 'Danmuorglow' as grown in a greenhouse in Moshav Mishmar Hashiva, Israel, under conditions which closely resemble those generally used in commercial practice. Plants of 'Danmuorglow' are grown in a greenhouse with day temperatures ranging from 25° C. to 30° C. and night temperatures ranging from 18° C. to 25° C. Plants of 'Danmuorglow' are fertilized up to a level of 100 ppm N, 35 ppm P and 120 ppm K. The age of the plants described is 8 weeks. The photographs and descriptions were taken during the winter when outdoor day temperatures ranged from 15° C. to 25° C. and outdoor night temperatures ranged from 10° C. to 15° C.

Color references are made with The Royal Horticultural Society Colour Chart (R.H.S.), 2001 edition, except where general colors of ordinary significance are used. Color values were taken under daylight conditions at approximately 12 noon in Moshav Mishmar Hashiva, Israel.

## Classification:

*Botanical*.—*Impatiens walleriana*.

*Commercial*.—Musica Orange Glow.

## Parentage:

*Female or seed parent*.—*Impatiens walleriana* cultivar designated as '477 HF' (unpatented).

*Male or pollen parent*.—*Impatiens walleriana* cultivar designated as '326 HF' (unpatented).

## Propagation:

*Type*.—Stem tip cutting.

*Time and temperature to initiate roots*.—Summer: 7 to 10 days at 25° C. Winter: 10 to 15 days at 21° C.

*Time and temperature to produce a rooted cutting or liner*.—Summer: 15 to 18 days at 25° C. Winter: 18 to 21 days at 21° C.

*Rooting habit and description*.—Fibrous roots, adventitious roots from cutting base.

## Plant:

*General appearance and form*.—Compact and rounded.

*Growth and branching habit*.—Very good branching.

*Growth rate*.—2 months from rooted plant to a finished product in 12 to 13 cm pots.

*Plant height*.—12 cm.

*Plant width (spread)*.—25 cm.

## Lateral branches:

*Quantity per plant*.—Primary Lateral shoots: About 5.

Secondary lateral shoots: About 20.

*Length*.—10 cm.

*Diameter*.—0.5 cm.

*Internode length*.—1.5 cm.

*Strength*.—Strong, very stable.

*Texture*.—Smooth.

*Color*.—Upper surface: Yellow green, RHS 144D.

Lower surface: yellow green, RHS 144D.

## Foliage:

*Arrangement*.—Alternate.

*Overall shape of leaf*.—Ovate.

*Shape at apex*.—Acute.

*Shape at base*.—Acute.

*Length*.—4 cm.

*Width*.—3 cm.

*Margin*.—Toothed.

*Texture*.—Upper surface: Smooth. Lower surface: Smooth.

*Color of mature (developed) leaf*.—Upper surface: Green, RHS 137 C. Lower surface: Green, RHS 139 D.

*Color of immature (expanding) leaf*.—Upper surface: Green, RHS 137C. Lower surface: Green, RHS 139D.

## Venation:

*Pattern*.—Midrib with secondary veins. Pinnate, only lower surface.

*Color*.—Upper surface: Midrib: Yellow Green, RHS 145B. Lower surface: Midrib: Green, RHS 146D. Secondary veins: Green, RHS 146D.

## Petiole:

*Length*.—1 cm.

*Diameter*.—2 mm.

*Color*.—Upper surface: Green, RHS 144D. Lower surface: Green, RHS 144D.

## Flower description:

*Flower type and habit*.—Double flowers raised above the foliage.

*Natural flowering season*.—Flowers at any day length. All year round in a greenhouse environment. Flowering is continuous from spring until fall in an outdoor garden.

*Flowering response*.—8 weeks after planting of rooted cuttings.

*Quantity of flowers*.—About 10 flowers and buds per stem.

*Post production longevity*.—Up to six months.

*Fragrance (if any)*.—None.

## Corolla:

*Form*.—Double.

*Shape*.—Rosette.

*Length.*—4 cm.

*Width.*—4 cm.

*Depth.*—1.5 mm.

*Color.*—Orangered group, RHS N 30B.

Buds:

*Rate of opening (from showing color to fully open flower).*—3 days.

*Length.*—1.5 cm.

*Diameter.*—At Apex: 0.5 cm. At Base: 1 cm.

*Shape.*—Rounded.

*Color.*—Orange-red group: RHS 32D, with no changes between apex and base.

Petals:

*Quantity and arrangement per flower.*—About 30 petals, Arrangement: Imbricate.

*Lateral and base petal length.*—About 2 cm.

*Lateral and base petal width.*—About 2 cm.

*Overall shape.*—Obovate.

*Shape at apex.*—Blunt.

*Margin.*—Entire.

*Aspect.*—Upward.

*Texture.*—Upper surface: Smooth. Lower surface: Smooth.

*Color of opening petals.*—Upper surface: Orange-red group, RHS N 30B. Lower surface: Red-purple group, RHS 40 D.

*Color of fully opened petals.*—Upper surface: Orange-red group, RHS 30A. Lower surface: red group, RHS:41C.

Sepals:

*Quantity per flower.*—2.

*Length.*—About 2 mm.

*Width.*—About 1 mm.

*Overall shape.*—Oblong.

*Apex shape.*—Rounded.

*Base shape.*—Rounded.

*Margin.*—Entire.

*Color.*—Upper surface: RHS 141D, green group.

Lower surface: RHS 143C, green group.

Spur:

*Quantity per flower.*—One.

*Length.*—2.5 cm.

*Diameter.*—At apex: 1 mm. At flower: 2 mm.

*Aspect.*—Spur curvature 40°–45° from peduncle.

*Color of spur.*—Towards base: Yellow-Green, RHS145

C. Towards apex: Yellow-Green, RHS145 A.

Peduncles:

*Appearance and angle.*—Erect 90° from corolla.

*Length.*—2.5 cm.

*Diameter.*—2 mm.

*Texture.*—Smooth.

*Strength.*—Stable, flexible.

*Color.*—Yellow-green group, RHS N144D.

Reproductive organs: Sterile, no reproductive organs.

Disease/pest resistance: No sensitivity was observed under regular growing conditions.

Disease/pest susceptibility: No information is currently available.

Low temperature tolerance: Sensitive to temperatures below 10° C.

I claim:

1. A new and distinct Double *Impatiens* plant named 'Danmuorglow', as illustrated and described herein.

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