



APPLICATIONS UNDER EXAMINATION

DIANTHUS

DIANTHUS (*Dianthus*)

Proposed denomination: 'KLEDG14177'
Trade name: Diantholot Pink + Star
Application number: 15-8572
Application date: 2015/04/02
Applicant: Nils Klemm, Stuttgart, Germany
Agent in Canada: BioFlora Inc., St. Thomas, Ontario
Breeder: Martin Glawe, Stuttgart, Germany

Variety used for comparison: 'KLEDG14178' (Diantholot Dark Red Star)

Summary: *The leaf blade of 'KLEDG14177' is grey green with medium glaucosity while the leaf blade of 'KLEDG14178' is medium green with weak glaucosity. The main colour of the inner side of the petal blade of 'KLEDG14177' is purple while the petal blade of 'KLEDG14178' is dark purple red to dark pink red. The stigma of 'KLEDG14177' is purple while the stigma of 'KLEDG14178' is white with a purple flush.*

Description:

PLANT: dense, flowers positioned at same level as foliage

STEM: very thin internode, circular in cross-section, not hollow

LEAF BLADE: linear, absent or very weakly recurved along longitudinal axis, flat or very weakly concave in cross-section, grey green upper side, medium degree of glaucosity, no spiny ciliation of margin

FLOWER BUD: elliptic, no extrusion of styles

EPICALYX (OUTER LOBES): not touching in relation to calyx, acute apex, long tip

EPICALYX (INNER LOBES): acute to acuminate apex, long tip

CALYX: cylindrical

CALYX LOBE: acuminate apex, medium length, straight along longitudinal axis, weak to medium intensity of anthocyanin colouration distributed along margin

FLOWER: single type

COROLLA: very short, profile of upper part is concave to convex in lateral view, profile of lower part is concave in lateral view

PETAL: predominant shape is type 1

PETAL BLADE: absent or weak undulation

PETAL BLADE (INNER SIDE): two colours, main colour is purple (RHS N74A), secondary colour is dark purple red (RHS 59A, 187B), broad margin, no stripes, no speckles, no area of flush, large macule

PETAL BLADE MARGIN INCISIONS: crenate-denticulate type, medium number, medium depth

OVARY: obovate, yellowish green base, smooth surface

STYLE: only two, long, no shoulder

STIGMA: purple

Origin and Breeding: 'KLEDG14177' originated from a controlled cross conducted by the breeder, Martin Glawe, in Stuttgart, Germany. In August 2010, the cross was made between the female parent variety 'DSS-2009-0513' and the male parent variety 'DSS-2008-0003'. Resulting seedlings were selected in Stuttgart, Germany in June 2011 based on flower colour and floriferousness. After selection, these seedlings were evaluated in greenhouse trials, in Stuttgart from September 2011 to April 2012, to assess branching characteristics, early flowering, tolerance to frost, and indoor and outdoor growth performance. In April of 2014, in Stuttgart, Germany, 'KLEDG14177' was selected for commercialization.

Tests and Trials: The comparative trial for 'KLEDG14177' was conducted in a polyhouse during the spring and summer of 2018 at BioFlora, Inc. in St. Thomas, Ontario. The trial included a total of 20 plants each of the candidate and reference

variety. All plants were grown from rooted cuttings and transplanted into 15 cm pots on April 27, 2018. Observations and measurements were taken from 10 plants, or parts of plants, of each variety on June 27, 2018. All colour determinations were made using the 2007 Royal Horticultural Society (RHS) Colour Chart.

Comparison table for ‘KLEDG14177’

	‘KLEDG14177’	‘KLEDG14178’*
Colour of inner side of petal blade (RHS)		
main	N74A	53B-C
*reference variety		



Dianthus: ‘KLEDG14177’ (left) with reference variety ‘KLEDG14178’ (right)



Dianthus: ‘KLEDG14177’ (left) with reference variety ‘KLEDG14178’ (right)



Dianthus: 'KLEDG14177' (left) with reference variety 'KLEDG14178' (right)
