CAMPANULA
(Campanula portenschlagiana)

Proposed denomination: **'PTDB141301'**
Application number: 18-9649
Application date: 2018/11/21
Applicant: Genius Genes Production Facilities B.V., Twello, Netherlands
Agent in Canada: BioFlora Inc., St. Thomas, Ontario
Breeder: Peter van de Pol, Genius Genes Production Facilities B.V., Twello, Netherlands

Varieties used for comparison: 'PKMP05' and 'PKMP10'

Summary: *The plants of 'PTDB141301' are narrow while those of 'PKMP05' are of medium width. The leaf blade apex of 'PTDB141301' is acute while that of 'PKMP10' is acuminate. The leaf blade margin of 'PTDB141301' has very strong undulation while that of 'PKMP05' has weak undulation. The corolla lobe shape of 'PTDB141301' is ovate while that of 'PKMP10' is elliptic. In cross-section, the corolla lobe of 'PTDB141301' is weakly reflexing at the mid-point while that of 'PKMP05' is strongly reflexing. The secondary colour of the inner side of the corolla lobe of 'PTDB141301' is blue violet whereas that of 'PKMP10' is darker blue violet.*

Description:
PLANT: spreading growth habit, extremely short to very short, narrow, dense to very dense

STEM: medium green

LEAF BLADE: very short to short, narrow, very low to low length to width ratio, acute apex, cordate base, position of broadest part moderately towards base, no variegation, many very deep indentations of margin, very strong undulation of margin
LEAF BLADE (UPPER SIDE): medium green, weak rugosity, weak glossiness, sparse pubescence

FLOWER: natural attitude is slightly outwards, campanulate type
CALYX: no petaloid lobes, angle of lobes is moderately spreading
COROLLA: very few whorls, very short to short, very small to small diameter, very short fused part, medium to long fused part compared to total length of corolla, absent or very small diameter of fused part, fused part very weakly diverging in longitudinal section
COROLLA LOBE: ovate, very short to medium length, very narrow, mid-point in cross section is weakly reflexing, obtuse apex
COROLLA LOBE (INNER SIDE): blue violet (RHS N87A), secondary colour lighter blue violet (RHS N88D) at base, no spots, no pubescence
COROLLA LOBE (OUTER SIDE): blue violet (RHS N87B), no secondary colour, no spots
POLLEN: whitish

Origin and Breeding: 'PTDB141301' originated from a controlled cross conducted by the breeder, Peter van de Pol, in Twello, Netherlands in August 2012. The cross occurred between two proprietary breeding selections, 'PTDB-1200201S-PT' as the female parent variety and 'PTDB-13001103S' as the male parent variety. From the resulting progeny, 'PTDB141301' was selected as a unique seedling in July 2013 in Twello for its compact plant growth habit, abundant flowering, shelf life and outdoor performance. Asexual reproduction of 'PTDB141301' was initially conducted by cuttings in November 2013 in Twello, Netherlands.

Tests and Trials: The detailed description of 'PTDB141301' is based on the UPOV report of Technical Examination, application number 2015/2375, purchased from the Community Plant Variety Office in Angers, France. The trial was conducted by the National Institute of Agricultural Botany in Cambridge, United Kingdom in 2016. Colour determinations were made using the 2007 Royal Horticultural Society (RHS) Colour Chart.

Comparison table for 'PTDB141301'

	'PTDB141301'	'PKMP05'*	'PKMP10'*
Secondary colour of corolla lobe (RHS) inner side	N88D	N/A	N87C

*reference varieties

Campanula: 'PTDB141301'

Campanula: 'PTDB141301'

Proposed denomination: **'PTW1300101'**
Application number: 18-9650
Application date: 2018/11/21
Applicant: Genius Genes Production Facilities B.V., Twello, Netherlands
Agent in Canada: BioFlora Inc., St. Thomas, Ontario
Breeder: Peter van de Pol, Genius Genes Production Facilities B.V., Twello, Netherlands

Varieties used for comparison: 'BGH 10', 'PKMp06' and 'PTW1101'

Summary: *The plants of 'PTW1300101' are medium width while those of 'PKMp06' are broad. The plants of 'PTW1300101' are of medium density while those of 'BGH 10' are of sparse to medium density. The base of the leaf blade of 'PTW1300101' is rounded while that of the reference varieties is cordate shaped. The upper side of the leaf blade of 'PTW1300101' is light green while that of 'BGH 10' is dark green. In cross-section, the corolla lobe of 'PTW1300101' is moderately reflexing at the mid-point while that of 'PTW1101' is strongly reflexing. The inner side of the corolla lobe of 'PTW1300101' is white whereas that of 'PKMp06' is mainly light blue violet. The inner side of the corolla lobe of 'PTW1300101' has no secondary colour whereas that of 'PTW1101' has secondary colour located at the distal quarter of the corolla lobe.*

Description:
PLANT: spreading growth habit, extremely short to very short, medium width, medium density

STEM: light green

LEAF BLADE: very short to short, very narrow to narrow, very low to low length to width ratio, acute apex, rounded base, position of broadest part moderately towards base, no variegation, medium number of medium depth indentations of margin, absent or very weak undulation of margin
LEAF BLADE (UPPER SIDE): light green, weak rugosity, absent or very weak glossiness, sparse pubescence

FLOWER: natural attitude is slightly outwards, campanulate type
CALYX: no petaloid lobes, angle of lobes is horizontal to stem
COROLLA: very few whorls, very short to short, very small to small diameter, very short fused part, medium length fused part compared to total length of corolla, absent or very small diameter of fused part, fused part very weakly diverging in longitudinal section

COROLLA LOBE: ovate, very short to medium length, very narrow, mid-point in cross section is moderately reflexing, acute apex
COROLLA LOBE (INNER SIDE): white (RHS NN155D), no secondary colour, no pubescence
COROLLA LOBE (OUTER SIDE): white (RHS NN155D), no secondary colour, no spots
POLLEN: yellowish

Origin and Breeding: 'PTW1300101' originated from a controlled cross conducted by the breeder, Peter van de Pol, in Twello, Netherlands in July 2011. The cross occurred between two proprietary breeding selections, 'PTW-1200102S' as the female parent variety and 'PTW-1100601S' as the male parent variety. From the resulting progeny, 'PTW1300101' was selected as a unique seedling in July 2012 in Twello for its compact plant growth habit, abundant flowering, shelf life and outdoor performance. Asexual reproduction of 'PTW1300101' was initially conducted by cuttings in January 2013 in Twello, Netherlands.

Tests and Trials: The detailed description of 'PTW1300101' is based on the UPOV report of Technical Examination, application number 2015/1008, purchased from the Community Plant Variety Office in Angers, France. The trial was conducted by the National Institute of Agricultural Botany in Cambridge, United Kingdom in 2016. Colour determinations were made using the 2007 Royal Horticultural Society (RHS) Colour Chart.

Comparison table for 'PTW1300101'

	'PTW1300101'	**'BGH 10'***	**'PKMp06'***	**'PTW1101'***
Main colour of corolla lobe (RHS) inner side	NN155D	N/A	85A	N/A

*reference varieties

Campanula: 'PTW1300101'

Campanula: ‘PTW1300101’

CAMPANULA
(Campanula poscharskyana)

Proposed denomination: **'PSDBH15701'**
Application number: 19-9973
Application date: 2019/07/11
Applicant: Genius Genes Production Facilities B.V., Twello, Netherlands
Agent in Canada: BioFlora Inc., St. Thomas, Ontario
Breeder: Peter van de Pol, Genius Genes Production Facilities B.V., Twello, Netherlands

Variety used for comparison: 'PKMPOS01'

Summary: *The plants of 'PSDBH15701' are very short with dense growth while those of 'PKMPOS01' are very short to short with medium density growth. The leaf blade of 'PSDBH15701' has a weak degree of glossiness while that of 'PKMPOS01' has absent or very weak glossiness. The main colour of the inner side of the corolla lobe of 'PSDBH15701' is violet blue whereas that of 'PKMPOS01' is blue violet.*

Description:
PLANT: semi-upright growth habit, very short, medium to broad, dense

STEM: medium green

LEAF BLADE: very short to short, narrow to medium width, very low length to width ratio, acute apex, cordate base, position of broadest part moderately towards base, no variegation, few medium deep indentations of margin, medium undulation of margin
LEAF BLADE (UPPER SIDE): medium green, weak rugosity, weak glossiness, absent or very sparse pubescence

FLOWER: natural attitude is slightly outwards, campanulate type
CALYX: no petaloid lobes, lobes are adpressed to corolla to moderately spreading
COROLLA: very few whorls, very short, small diameter, absent or extremely short fused part, short to medium fused part compared to total length of corolla, absent or very small diameter of fused part, fused part moderately diverging in longitudinal section
COROLLA LOBE: elliptic, very short to short, very narrow, mid-point in cross section is weakly reflexing, acute apex
COROLLA LOBE (INNER SIDE): mainly violet blue (brighter than RHS 93B), secondary colour white (NN155D) at basal quarter, no spots, no pubescence
COROLLA LOBE (OUTER SIDE): mainly blue violet (RHS N88C), secondary colour white (NN155D) at basal quarter, no spots
POLLEN: purplish

Origin and Breeding: 'PSDBH15701' originated from a controlled cross conducted by the breeder, Peter van de Pol, in Twello, Netherlands in August 2013. The cross occurred between two proprietary breeding selections, 'PSDBH1200302S' as the female parent variety and 'PSDB-1300101S' as the male parent variety. From the resulting progeny, 'PSDBH15701' was selected as a unique seedling in July 2014 in Twello for its compact plant growth habit, short branch length, purple flower colour and large white eye. Asexual reproduction of 'PSDBH15701' was initially conducted by cuttings in November 2014 in Twello, Netherlands.

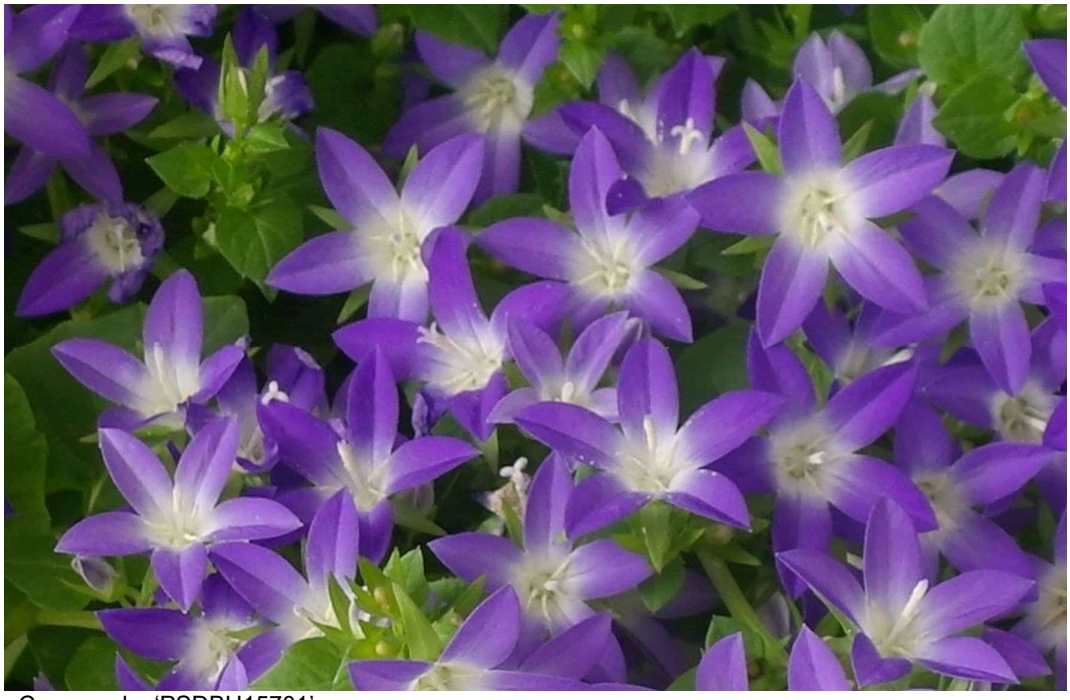
Tests and Trials: The detailed description of 'PSDBH15701' is based on the UPOV report of Technical Examination, application number 2017/2242 purchased from the Community Plant Variety Office in Angers, France. The trial was conducted by the National Institute of Agricultural Botany in Cambridge, United Kingdom in 2018. Colour determinations were made using the 2007 Royal Horticultural Society (RHS) Colour Chart.

Comparison table for 'PSDBH15701'

	'PSDBH15701'	'PKMPOS01'*
Main colour of corolla lobe (RHS)		
inner side	brighter than 93B	N88C

*reference variety

Campanula: 'PSDBH15701'



Campanula: 'PSDBH15701'