



APPLICATIONS UNDER EXAMINATION

AGERATUM

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(Ageratum houstonianum)

Proposed denomination: 'Agbapur'
Trade name: Patina Purple '10
Application number: 09-6735
Application date: 2008/10/14 (priority claimed)
Applicant: Syngenta Crop Protection AG, Basel, Switzerland
Agent in Canada: BioFlora Inc., St. Thomas, Ontario
Breeder: Monica Sanders, Syngenta Seeds B.V., Enkhuizen, The Netherlands

Varieties used for comparison: 'Agsantis' (Artist Blue) and 'Agrosantis' (Artist Rose)

Summary: *The leaves of 'Agbapur' are larger than those of both reference varieties. The flower bud discs of 'Agbapur' are dark violet before opening while those of 'Agsantis' are violet and those of 'Agrosantis' are purple. The inflorescence of 'Agbapur' have more flowers than those of both reference varieties. The disc florets of 'Agbapur' differ in colour from those of both reference varieties.*

Description:

PLANT: annual, bushy-rounded growth habit, dense branching
 STEM: light green, anthocyanin colouration ranging from absent to weak, dense pubescence, medium to thick

LEAF: simple type

LEAF BLADE: broad ovate, cuspidate apex, cordate and truncate base, dentate margin, blistering present, medium degree of blistering, medium pubescence density on upper and lower sides, dark green on upper side, no variegation, petiole present

FLOWER: inflorescence type

PEDICEL: absent to very weak anthocyanin colouration

FLOWER BUD: dark violet (RHS N79C) disc before opening

DISC FLORET: violet (RHS N87B-N78B) fading to blue violet (RHS N88B) with age

Origin and Breeding: 'Agbapur' was bred and developed as part of a planned breeding program by the breeder Monica M.A. Sanders at Syngenta Seeds B.V., Enkhuizen, The Netherlands. The new variety originated from a controlled pollination of a female *Ageratum houstonianum* plant identified as Y0017-3 with pollen from a male *Ageratum houstonianum* plant identified as Y0039-3. The cross was made in October 2003 in Enkhuizen, The Netherlands. The resultant seed was sown in January 2004. 'Agbapur' was selected as a single seedling in August 2004 in Enkhuizen based on growth habit, branching, flower size and flower colour. Asexual reproduction by cuttings of 'Agbapur' was first conducted in Enkhuizen in September 2004.

Tests and Trials: Trials for 'Agbapur' were conducted in a polyhouse during the spring of 2010 in St. Thomas, Ontario. Trials included 15 plants each of the candidate and reference varieties. Rooted cuttings were transplanted into 15 cm pots on May 12, 2010. Observations and measurements were taken from 10 plants of each variety on June 16, 2010. All colour determinations were made using the 2007 Royal Horticultural Society (RHS) Colour Chart.

Comparison table for 'Agbapur'

| | 'Agbapur' | 'Agsantis'* | 'Agrosantis'* |
|-------------------------------|-----------|-------------|---------------|
| <i>Leaf blade length (cm)</i> | | | |
| mean | 4.8 | 3.7 | 4.1 |
| std. deviation | 0.35 | 0.20 | 0.12 |
| <i>Leaf blade width (cm)</i> | | | |
| mean | 4.9 | 3.4 | 3.8 |
| std. deviation | 0.33 | 0.23 | 0.39 |

| | | | |
|--|--|---------------------------------------|------------------------|
| <i>Colour of flower bud disc (RHS)</i> | | | |
| before opening | N79C | N87A | greyer than 61A |
| <i>Number of flowers per inflorescence</i> | | | |
| mean | 10.0 | 6.8 | 6.4 |
| std. deviation | 2.16 | 0.84 | 0.89 |
| <i>Colour of disc florets (RHS)</i> | | | |
| newly opened | N87B outer florets, N78B inner florets | 94B outer florets, N87B inner florets | 64B-C darkening at tip |
| aging | N88B | N/A | 65B with 64C tips |

*reference varieties



Ageratum: 'Agbabur' (left) with reference varieties 'Agsantis' (center) and 'Agrosantis' (right)



Ageratum: 'Agbabur' (left) with reference varieties 'Agsantis' (center) and 'Agrosamtis' (right)