



APPLICATIONS UNDER EXAMINATION

BIDENS

BIDENS (*Bidens ferulifolia*)

Proposed denomination: 'Fisbimex'
Trade name: Mexican Gold
Application number: 06-5573
Application date: 2006/09/13
Applicant: Syngenta Crop Protection AG, Basel, Switzerland
Agent in Canada: Brenda Cole, BioFlora Inc., St. Thomas, Ontario
Breeder: Birgit Hofmann, Bendorf, Germany

Variety used for comparison: 'Goldteppich' (Peter's Gold Carpet)

Summary: '*Fisbimex*' has a longer leaf blade than '*Goldteppich*'. '*Fisbimex*' has medium anthocyanin colouration in the peduncle while '*Goldteppich*' has weak anthocyanin. The flowers of '*Fisbimex*' have a higher number of ray florets which are more overlapping than the ray florets of '*Goldteppich*'. '*Fisbimex*' has deeper incisions at the apex of the ray floret than '*Goldteppich*'. '*Fisbimex*' has stronger recurvature of the ray floret tip than '*Goldteppich*'.

Description:

PLANT: arching to spreading/trailing growth habit, many branches

STEM: light green to red brown, medium to strong anthocyanin colouration, weak to medium glaucosity, medium pubescence, thin, edged to striated

LEAF: opposite arrangement, bipinnate, five leaflets

LEAF BLADE: ovate to deltoid shape, acute apex, cuneate base, pinnatifid margin, sparse pubescence on upper side, very sparse to sparse pubescence on lower side, weak glaucosity on upper side, medium green on upper side, light to medium green on lower side, no variegation, petiole present

PEDUNCLE: medium anthocyanin colouration, medium to dense pubescence

SEPAL: oblanceolate to linear, acute apex, weak recurvature of tip, entire margin, sparse pubescence on upper and lower side, weak glaucosity, dark green to brown green on upper side

FLOWERING: almost continuous, early to mid-season, long flowering period

INFLORESCENCE: head, terminal and axillary in position, erect attitude

RAY FLORET: overlapping, few to medium, elliptic, medium to deep dentate incisions at apex, medium recurvature of tip, entire margin, weak undulation of margin, sparse pubescence on upper and lower side, yellow (darker than RHS 9A) on upper side, yellow (RHS 9A) on lower side.

Origin and Breeding: '*Fisbimex*' originated from a hybridization made in Hillscheid, Germany in 2003. The female parent was the variety '*Marietta Gold*' and the male parent was the variety '*Golden Star*'. Seed from the cross was taken to Moncara-pacho, Portugal where the first selection of seedlings was made. Cuttings from the selected seedling were taken back to Hillscheid for further examination and for the trial cultivation in the spring through the summer of 2004 and again in 2005. '*Fisbimex*' was selected based on criteria for flower type (number of petals) and plant habit.

Tests and Trials: Trials for '*Fisbimex*' were conducted during the summer of 2008 in a polyhouse at BioFlora Inc. in St. Thomas, Ontario. There were 15 plants each of the candidate and reference varieties. The plants were grown from rooted cuttings which were transplanted into 11 cm pots on May 13, 2008. Observations and measurements were taken from 10 plants on August 28, 2008. All colour determinations were made using the 2001 Royal Horticulture Society (RHS) Colour Chart.

Comparison table for 'Fisbimex'

	'Fisbimex'	'Goldteppich'*
<i>Leaf blade length (cm)</i>		
mean	3.9	2.5
std. deviation	0.46	0.19

*reference variety



Bidens: 'Fisbimex' (left) with reference variety 'Goldteppich' (right)



Bidens: 'Fisbimex' (left) with reference variety 'Goldteppich' (right)



Bidens: 'Fisbimex' (left) with reference variety 'Goldteppich' (right)