



APPLICATIONS UNDER EXAMINATION

BISTORT

BISTORT
(Bistorta amplexicaulis)

Proposed denomination: 'Blackfield'
Application number: 05-4784
Application date: 2005/04/26
Applicant: Chris Ghyselen, Beernhem, Belgium
Agent in Canada: Variety Rights Management, Oxford Station, Ontario
Breeder: Chris Ghyselen, Beernhem, Belgium

Variety used for comparison: 'Firetail'

Summary: 'Blackfield' has dark purple red flower colour while 'Firetail' has red flower colour.

Description:

PLANT: upright to spreading growth habit, medium degree of branching
STEM: medium green, absent or very weak anthocyanin colouration, absent or very weak glaucosity, absent or very sparse pubescence

LEAF: alternate arrangement, simple, ovate, acute apex, cordate base, irregular serrate margin, margin slightly wavy
UPPER SIDE: sparse pubescence, medium to dark green, no variegation
LOWER SIDE: very sparse pubescence, medium green
PETIOLE: short, absent to very weak anthocyanin colouration

FLOWERING: almost continuous, mid-season
INFLORESCENCE: raceme, dense, terminal in position, erect attitude
FLORET: dark purple red (RHS 53B to 60A), small

Origin and Breeding: 'Blackfield' originated from a cross between two unnamed bistort selections, made in 2001 in Odelem, Belgium. The objective of the breeding program was to create new bistort varieties with improved floral colours and foliage traits.

Tests and Trials: Trials were conducted during the summer of 2009 in Oxford Station, Ontario. Fifteen plants of each variety were grown in 15 cm pots in a polyhouse. Plants were spaced approximately 60 cm apart. Observations and measurements were taken on 10 plants of each variety. Colours were determined using the 2001 Royal Horticultural Society (RHS) Colour Chart.

Comparison table for 'Blackfield'

	'Blackfield'	'Firetail'*
Colour of floret (RHS)		
Colour chart number	53B to 60A	50A to 45B

*reference variety



Bistort: 'Blackfield' (left) with reference variety 'Firetail' (right)

Proposed denomination: 'Orange Field'
Application number: 06-5329
Application date: 2006/03/17
Applicant: Chris Ghyselen, Beernhem, Belgium
Agent in Canada: Variety Rights Management, Oxford Station, Ontario
Breeder: Chris Ghyselen, Beernhem, Belgium

Variety used for comparison: 'Blackfield'

Summary: 'Orange Field' has a taller plant height and wider plant width than 'Blackfield'. 'Orange Field' has a longer inflorescence length than 'Blackfield'. 'Orange Field' has dark red pink to red pink floret colour while 'Blackfield' has dark purple red floret colour.

Description:

PLANT: upright to spreading growth habit, medium degree of branching

STEM: medium green, absent or very weak anthocyanin colouration, absent or very weak glaucosity, absent or very sparse pubescence

LEAF: alternate arrangement, simple, ovate, acute apex, cordate base, irregular serrate margin, margin slightly wavy

UPPER SIDE: sparse pubescence, medium to dark green, no variegation

LOWER SIDE: very sparse pubescence, medium green

PETIOLE: medium length, absent to very weak anthocyanin colouration

FLOWERING: almost continuous, mid-season

INFLORESCENCE: raceme, dense, terminal in position, erect attitude

FLORET: dark pink red (RHS 47C) to red pink (RHS 47D to 43D), small

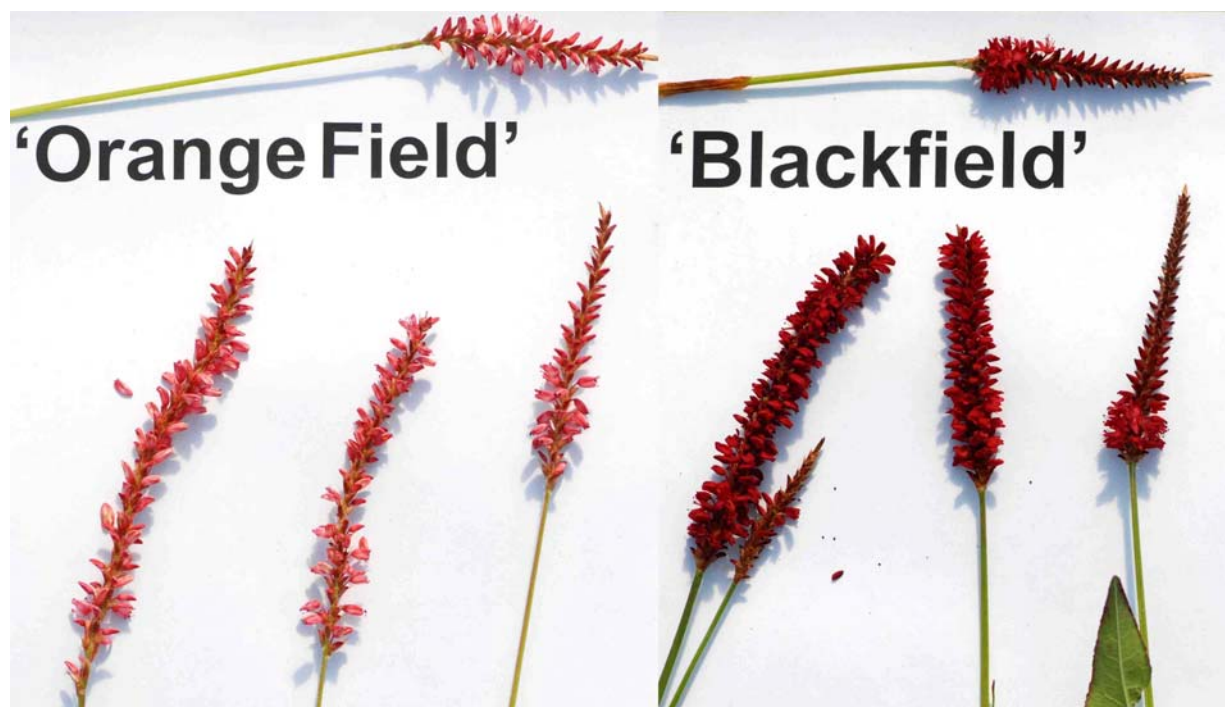
Origin and Breeding: ‘Orange Field’ originated from a cross between two unnamed bistort selections, made in 2001 in Oedelem, Belgium. The objective of the breeding program was to create new bistort varieties with improved floral colours and good plant habits.

Tests and Trials: Trials were conducted during the summer of 2009 in Oxford Station, Ontario. Eleven plants of ‘Orange Field’ and fifteen plants of ‘Blackfield’ were grown in 15 cm pots in a polyhouse. Plants were spaced approximately 60 cm apart. Observations and measurements were taken on 10 plants of each variety. Colours were determined using the 2001 Royal Horticultural Society (RHS) Colour Chart.

Comparison table for ‘Orange Field’

	‘Orange Field’	‘Blackfield’*
<i>Plant height (cm)</i>		
mean	77.14	65.14
std. deviation	4.02	2.91
<i>Plant width (cm)</i>		
mean	73.17	60.17
std. deviation	4.79	5.74
<i>Inflorescence length (cm)</i>		
mean	10.35	7.25
std. deviation	1.44	0.85
<i>Colour of floret (RHS)</i>		
colour chart number	47C-D to 43D	53B to 60A

*reference variety



Bistort: ‘Orange Field’ (left) with reference variety ‘Blackfield’ (right)