



APPLICATIONS UNDER EXAMINATION

CUCUMBER

CUCUMBER (*Cucumis sativus*)

Proposed denomination: 'Dee Freece'
Application number: 21-10454
Application date: 2020/12/23 (priority claimed)
Applicant: Enza Zaden Beheer B.V., Enkhuizen, Netherlands
Agent in Canada: Smart & Biggar LP, Ottawa, Ontario
Breeder: Martijn van Paassen, Enza Zaden Beheer B.V., Enkhuizen, Netherlands

Variety used for comparison: 'Bonsoler'

Summary: *The leaf blade of 'Dee Freece' is long while that of 'Bonsoler' is medium to long. The upper side of the leaf blade of 'Dee Freece' is medium to dark green whereas that of 'Bonsoler' is dark green. The time of development of female flowers on the plants of 'Dee Freece' is mid-season while it is mid to late season for those of 'Bonsoler'. The vestiture of the fruit of 'Dee Freece' is very sparse while that of 'Bonsoler' is sparse.*

Description:

PLANT: produces Dutch type fruit, gynoecious sex expression, predominantly one or two female flowers per node, parthenocarpy present, indeterminate growth type, first 15 internodes are long

COTYLEDON: no bitterness

LEAF BLADE: drooping attitude, long, medium ratio of terminal lobe length in relation to blade length, terminal lobe apex is right-angled, medium to dark intensity of green on upper side, medium to strong degree of blistering, absent or weak undulation of margin, very weak to weak dentation of margin

TIME OF DEVELOPMENT OF FEMALE FLOWERS (WHEN 80% OF PLANTS HAVE AT LEAST ONE FEMALE FLOWER): mid-season

OVARY VESTITURE: white

PEDUNCLE: medium to long

FRUIT: long, medium to large diameter, large length to diameter ratio, medium sized core diameter in relation to fruit diameter, round shape in transverse section, shape of stem end is acute to necked, short to medium length neck, shape of calyx end is obtuse, absent or weak ribs, no sutures, weak to medium degree of creasing, no warts, absent or very short stripes, no dots

FRUIT VESTITURE: prickles only type, very sparse density of prickles, white

FRUIT SKIN: dark green ground colour at market stage, very weak to weak glaucosity, yellow ground colour at time of physiological ripening

DISEASE REACTIONS: highly resistant to powdery mildew (*Podosphaera xanthii*) (Px); resistant to *Cladosporium cucumerinum*, *Corynespora* blight and Target leaf spot (*Corynespora cassiicola*) (Cca) and Cucumber Vein Yellowing Virus (CVYV) present; not resistant to Cucumber Mosaic Virus (CMV)

Origin and Breeding: 'Dee Freece' originated from a cross between 'E23L.2353-F' and 'E23L.2353-M' in 2016 at Enza Zaden Beheer B.V. in Enkhuizen, Netherlands. The resulting hybrid was first selected for its disease resistance, yield and fruit size in 2017 in Enkhuizen, Netherlands. It was first identified in 2017 and further screened in trials with the final selection occurring in 2018 in Enkhuizen, Netherlands. 'Dee Freece' was commercialized from 2020 onwards.

Tests and Trials: The detailed description of 'Dee Freece' is based on the UPOV report of Technical Examination, application number KMK1413, purchased from the Naktuinbouw in Roelofarendsveen, Netherlands. The trial was conducted by Naktuinbouw in Roelofarendsveen, Netherlands from 2021 to 2022.



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