CLAIMS

1. ~~(Amended)~~ A multifocal diffractive lens, comprising a diffraction grating,
wherein negative-order light produces a focal point for far vision and 0-order light produces a focal point nearer to the multifocal diffractive lens than that for the far vision,
wherein positive-order light produces a focal point nearer to the multifocal diffractive lens than that of the 0-order light,
wherein a number of focal points is three or more,
wherein the diffraction grating is in a combined shape of kinoform profiles, and
wherein a focal position for the far vision in polychromatic performance evaluation is located nearer to the multifocal diffractive lens than the focal position for the far vision in monochromatic performance evaluation.

~~2. (Cancelled)~~

~~3. (Cancelled)~~

~~4.~~2. ~~(Amended)~~ The multifocal diffractive lens of claim 1,
wherein a correction term of a medium refractive index is added to the kinoform profiles.

~~5.~~3. ~~(Amended)~~ The multifocal diffractive lens of claim 1 or ~~4~~2,
wherein a correction term of a pupil dilation ratio is added to the kinoform profiles.

~~6.~~4. ~~(Amended)~~ The multifocal diffractive lens of any one of claims 1, 2~~4~~, and ~~5~~3,
wherein the multifocal diffractive lens is a trifocal diffractive lens that has one additional focal point in addition to two focal points produced by a bifocal diffractive lens,
wherein a near addition power of the trifocal diffractive lens is twice of that of the bifocal diffractive lens, and
wherein a number of diffraction fringes is the same between the bifocal diffractive lens and the trifocal diffractive lens.

~~7.~~5. ~~(Amended)~~ The multifocal diffractive lens of any one of claims 1, ~~4~~2, and ~~5~~3,

wherein the multifocal diffractive lens is a quadrifocal diffractive lens that has two additional focal points in addition to two focal points produced by a bifocal diffractive lens,

wherein a near addition power of the quadrifocal diffractive lens is three times of that of the bifocal diffractive lens, and

wherein a number of diffraction fringes is the same between the bifocal diffractive lens and the quadrifocal diffractive lens.

~~8.~~6. ~~(Amended)~~ The multifocal diffractive lens of any one of claims 1 and ~~4~~ 2 to ~~6~~4,

wherein the diffraction grating is in a combined shape of two kinoform profiles and has a height of half of a diffraction grating height of the two kinoform profiles,

wherein light is allocated to negative-order light that produces a focal point farther from the multifocal diffractive lens than that of the 0-order light and positive-order light that produces a focal point nearer to the multifocal diffractive lens than that of the 0-order light, and

wherein an order of the negative-order light is the same as an order of the positive-order light.

~~9.~~7. ~~(Amended)~~ The multifocal diffractive lens of any one of claims 1, ~~4~~2, ~~5~~3, and ~~7~~5,

wherein the diffraction grating is in a combined shape of two kinoform profiles,

wherein diffraction grating heights of the two kinoform profiles are different from each other,

wherein light is allocated to negative-order light that produces a focal point farther from the multifocal diffractive lens than that of the 0-order light and positive-order light that produces a focal point nearer to the multifocal diffractive lens than that of the 0-order light, and

wherein an order of the negative-order light and an order of the positive-order light are different from each other.

~~10.~~8. ~~(Amended)~~ The multifocal diffractive lens of any one of claims 1 and ~~4~~ 2 to ~~9~~7,

wherein a jagged part of the diffraction grating comprises planarized regions.

~~11.~~9. ~~(Amended)~~ The multifocal diffractive lens of any one of claims 1 and ~~4~~ 2 to ~~10~~8,

wherein the multifocal diffractive lens is formed of optical material with normal dispersion with a material refractive index between 1.45 and 1.56, inclusive, at a wavelength of 546 nm, and

wherein power setting between respective focal points is 0.75D or more.

~~12.~~10. ~~(Amended)~~ The multifocal diffractive lens of any one of claims 1 and ~~4~~ 2 to ~~11~~9,

wherein the multifocal diffractive lens has a pair of optical surfaces,

wherein one of the pair of optical surfaces includes the diffraction grating, and

wherein the other of the pair of optical surfaces is in a toric shape.

~~13.~~11. ~~(New)~~ The multifocal diffractive lens of any one of claims 1 and ~~4~~ 2 to ~~12~~10,

wherein the diffraction grating is in a combined shape of a diffraction grating geometry with a positive-power addition and a diffraction grating geometry with a negative-power addition.

~~14.~~12. ~~(New)~~ The multifocal diffractive lens of any one of claims 1, ~~4~~ 2 to ~~6~~4, and ~~8~~6,

wherein the multifocal diffractive lens is a trifocal diffractive lens of -1-order, 0-order, and +1-order,

wherein the diffraction grating is in a combined shape of a first kinoform profile with a diffraction grating geometry with a positive-power addition corresponding to +1-order light and the 0-order light and a second kinoform profile with a diffraction grating geometry with a negative-power addition corresponding to -1-order light and the 0-order light.

~~15.~~13. ~~(New)~~ The multifocal diffractive lens of any one of claims 1, ~~4~~2, ~~5~~3, ~~7~~5, and ~~9~~7,

wherein the multifocal diffractive lens is a quadrifocal diffractive lens of -1-order, 0-order, +1-order, and +2-order,

wherein the diffraction grating is in a combined shape of a first kinoform profile with a diffraction grating geometry with a positive-power addition corresponding to +1-order light and +2-order light and a second kinoform profile with a diffraction grating geometry with a negative-power addition corresponding to -1-order light and the 0-order light.

~~16.~~14. ~~(New)~~ The multifocal diffractive lens of any one of claims 1 and ~~4~~ 2 to ~~15~~13,

wherein the diffraction grating has a constant height.

~~17.~~15. ~~(New)~~ The multifocal diffractive lens of any one of claims 1 and ~~4~~ 2 to ~~16~~14, wherein the diffraction grating is in a combined shape of two kinoform profiles, wherein a number of diffraction fringes is the same between the two kinoform profiles, wherein a number of diffraction fringes of the diffraction grating is the same as the number of diffraction fringes of the kinoform profile.

~~18.~~16. ~~(New)~~ The multifocal diffractive lens of any one of claims 1 and ~~4~~ 2 to ~~17~~15, wherein the diffraction grating is in a combined shape of two kinoform profiles, wherein a height of the diffraction grating is lower than heights of the two kinoform profiles.