

regions of low optical powers within a diameter of about 5 mm.

17. A multifocal contact lens comprising:

(a) a contact lens body having an optical axis and having a positively curved anterior face and a negatively curved posterior face; and

(b) means for providing on said posterior face concentrically relative to said optical axis and in a pupil region of the lens, a generally repetitive pattern comprising at least four sets of radially outwardly alternating, annular regions of high and low vision correction powers,

said regions of high and low vision correction powers being interconnected by optical transition regions, each of said optical transition regions having a range of intermediate optical powers which varies smoothly between the interconnected high and low vision correction powers.

18. A multifocal intraocular lens which comprises:

(a) an intraocular lens body having an optical axis, an anterior face and a posterior face; and

(b) means for providing on one of said anterior and posterior faces, concentrically relative to said optical axis and in a pupil region of the lens, a generally repetitive pattern comprising at least four sets of radially outwardly alternating, annular regions of high and low vision correction powers, said regions of high and low optical powers being interconnected by optical transition regions, each of said optical transition regions having a range of intermediate vision correction powers which varies smoothly between the interconnected high and low optical powers.

19. A multifocal ophthalmic lens for providing variable vision correction power, said lens having first and second zones with the second zone lying radially outwardly of the first zone, each of said zones having a first region with near vision correction power, a second region with far vision correction power and an intermediate vision region between the first and second regions, the intermediate vision region including progressive intermediate vision correction powers which are intermediate the near vision correction power and the far vision correction power and which provide vision correction for intermediate distances.

20. A lens as defined in claim 19 wherein the second zone surrounds the first zone.

21. A lens as defined in claim 19 wherein the first and second zones are concentric.

22. A lens as defined in claim 19 wherein each of said first and second zones is annular.

23. A lens as defined in claim 22 wherein the first and second zones are concentric.

24. A lens as defined in claim 23 including a central zone having an intermediate vision correction power.

25. A lens as defined in claim 19 wherein the ophthalmic lens is an intraocular lens.

26. A lens as defined in claim 19 wherein the ophthalmic lens is adapted for affixation to the cornea.

27. A lens as defined in claim 19 wherein the ophthalmic lens is a contact lens.

28. A lens as defined in claim 19 wherein the vision correction power varies progressively in transition from said first zone to said second zone.

29. A lens as defined in claim 19 wherein the vision correction power varies progressively in a radial direction throughout each of said first and second zones.

30. A lens as defined in claim 29 wherein the vision correction power varies progressively in transition from said first zone to said second zone.

31. A lens as defined in claim 19 wherein the far vision correction values of each of said first and second zones are the same and the near vision correction values of each of said first and second zones are the same.

32. An ophthalmic lens adapted to be carried by or in the eye for providing variable vision correction power, the corrective power being caused to vary progressively in a radial direction in an annular zone from a first vision correction value through an intermediate vision correction value to a second vision correction value and then back through the intermediate vision correction value to the first vision correction value and the intermediate vision correction value being between the first and second vision correction value.

33. A lens as defined in claim 32 wherein the first and second vision correction values are near and far vision correction values, respectively.

34. A lens as defined in claim 32 wherein the first and second vision correction values are far and near vision correction values, respectively.

35. An ophthalmic lens adapted to be carried by or in the eye for providing variable vision correction power, the corrective power being caused to vary progressively in a radial direction in an annular zone from an intermediate vision correction power through a far vision correction power and a near vision correction power and then back to the intermediate vision correction power and the intermediate vision correction power being between the first and second vision correction powers.

36. A multifocal ophthalmic lens for providing variable vision correction power and adapted to be carried by the eye, said lens having a plurality of zones, the vision correction power of each of said zones varying progressively between a near vision correction value and a far vision correction value and then back toward an intermediate vision correction value, the intermediate vision correction value being between the near and far correction values.

37. A lens as defined in claim 36 wherein said zones are concentric and the corrective power varies progressively in a radial direction.

38. A lens as defined in claim 36 wherein at least some of said zones are annular.

39. A lens as defined in claim 38 including a central zone having an intermediate vision correction value.

40. A lens as defined in claim 36 wherein the far vision correction values of said zones are the same and the near vision correction values of said zones are the same.

41. A lens as defined in claim 36 wherein the vision correction power varies progressively in transition from one of said zones to another.

42. A lens as defined in claim 36 wherein the vision correction power varies progressively in a radial direction throughout said zones.

43. A lens as defined in claim 42 wherein the vision correction power varies progressively in transition from one of said zones to another.

44. An ophthalmic lens for providing variable vision correction power, said lens having a plurality of annular zones, the correction power of each of said zones varying progressively in a radial direction between a near vision correction power and a far vision correction power, and the correction power varying throughout each of said annular zones and in transition between each of said annular zones.

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