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[54] **VARIABLE POWER, ANALYTIC FUNCTION,
 OPTICAL COMPONENT IN THE FORM OF A PAIR
 OF Laterally ADJUSTABLE PLATES HAVING
 SHAPED SURFACES, AND OPTICAL SYSTEMS
 INCLUDING SUCH COMPONENTS**
13 Claims, 9 Drawing Figs.

[52] U.S. Cl..... **350/184,**
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 [50] Field of Search..... **350/184,**
189

ABSTRACT: A plurality of refracting plates, which are generally perpendicular to an optic axis along which they are in tandem, have quintic or higher order surfaces that are relatively movable laterally in such a way as to be substantially equivalent in their different selected positions to a plurality of lens elements having different selected dioptric powers and different selected aspheric powers. This plurality of different refracting plates can perform a zoom function by itself or as part of a system having other lens elements. This zoom function relates to change of focal length and to change of Seidel corrections, particularly spherical aberration.

