

Breetz, Egon und Gerth, Ewald:

Verfahren zur Herstellung großflächiger Parallaxstereogramme,
insbesondere für die raumbildliche Darstellung des Bodenreliefs.
DDR-Patentschrift 83301, WPa 75/148 150 (12. August 1971).

*Procedure for making extensive parallaxic stereograms,
especially for the stereoscopic representation of the ground relief.*

GDR-patent 83301. Application in GDR: Wpa 75/148 150.

Day of issue: Aug.12, 1971.

Patentees: Dr. Egon Breetz, Dr. Ewald Gerth

In further development of the formerly known cylinder-lens method for the stereoscopic representation of three-dimensionally arranged objects, which allows a direct viewing of the stereo-image with naked eyes by means of the eye's parallax, covering one partial image from the other, respectively, the patent specification proposes a plane honeycomb-like distribution of spherical lenses on the carrier of the picture. By this way the viewer gets an illusion of the spatial arrangement of objects not only – as given by cylinder lenses - for the line connecting both eyes perpendicularly to the direction of the lens raster, but one sees the spatial image from every side one likes. The virtually viewed objects seem to be fixed in the space, even if the viewer changes his viewing position. Thus, it is possible to pursue with a pointer a track on the imaginary ground surface and to measure directly distances between conspicuous sites in the space above the picture plane. For this reason the patented method is well-suited for making cartographic maps of the ground relief.

Comment: The patent is free for application.

The description of the patent is available in German by the address:

www.ewald-gerth.de/Linsenraster-Stereo-Anaglyphen.pdf