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(71) Applicant: **DISPELIX OY** [FI/FI]; Metsänneidonkuja 10,
02130 Espoo (FI).

(72) Inventor: **OLKKONEN, Juuso**; c/o Dispelix Oy, Metsän-
neidonkuja 10, 02130 Espoo (FI).

(74) Agent: **LAINE IP OY**; Porkkalankatu 24, 00180 Helsinki
(FI).

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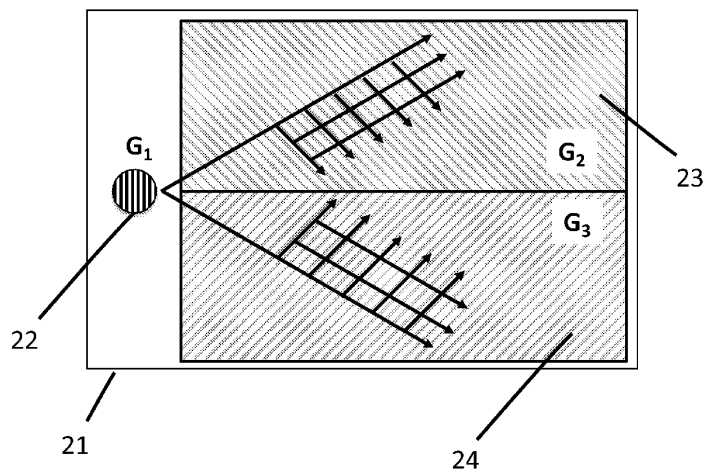


Fig. 2

(57) Abstract: The invention concerns a diffractive waveguide element for a personal display device, the element comprising a waveguide body (21), and at least two grating regions (23, 24) arranged on the waveguide body (21), at least some of the grating regions adapted to expand the exit pupil of the element. According to the invention, the grating regions (23, 24) are positioned with respect to each other so that and are provided with gratings having different grating vectors so that the grating regions (23, 24) interact to combine the functions of exit pupil expansion and outcoupling on at least some parts of the element. The invention allows for efficient use of waveguide area.

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