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(71) Applicants (for all designated States except US):
STEREO DISPLAY, INC. [US/US]; 2751 E. Chapman Avenue, Suite 109, Fullerton, CA 92831 (US).
ANGSTROM, INC. [KR/KR]; 128-1 Maesanro 3-ga, Gwonseon-gu, Suwon, Kyunggi-do 442-852 (KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SEO, Cheong, Soo** [KR/KR]; Gangnam-gu, Apkujing-dong, Hyundai, Apt. 114-403, Seoul 135-110 (KR). **GIM, Dong, Woo** [KR/KR]; Goseong-gun, Georyu-myeon, Dang-dong, 139-1, Gyoungnam 638-830 (KR). **CHO, Gyoung, Il** [KR/KR]; Nowon-gu, Gonglung-dong, 106 Hyosung Whaunthil, 310-1002, Seoul 139-240 (KR). **BOYD, James, Greenup** [US/US]; 801 Bormann St., Brenham, TX 77833 (US). **BAEK, Sang, Hyune** [KR/KR]; Paldal-gu, Godeung-dong 73-1, Suwon 442-880 (KR).

(74) Agent: **VERNON, Yancy, R.**; Law Offices of Park & Associates, 3600 Wilshire Blvd, Suite 1722, Los Angeles, CA 90010 (US).

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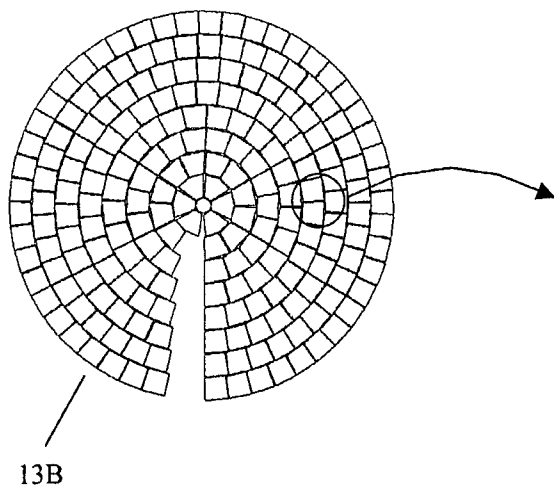
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Declarations under Rule 4.17:

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(54) Title: THREE-DIMENSIONAL DISPLAY USING VARIABLE FOCUSING LENS



(57) Abstract: A three-dimensional display device includes a two-dimensional display displaying a first image, and a variable focusing lens receiving light from the two-dimensional display and forming a second image. The variable focusing lens reflects light from the two-dimensional display. The first image includes a predetermined number of first depthwise images that are displayed within a unit time, and the second image includes corresponding second depthwise images. Each depthwise image represents the portion of the first image having the same image depth, and the two-dimensional display displays one depthwise image at a time. The focal length of the variable focusing lens changes according to the depth of the depthwise image being displayed. A micromirror array lens is used as the variable focusing lens. The micromirror array lens has enough speed and focusing depth range for realistic three-dimensional display.



HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

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