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Drabant et al.(10) **Pub. No.: US 2022/0354005 A1**(43) **Pub. Date: Nov. 3, 2022**(54) **SEAMLESS CURVED DISPLAY SYSTEM
AND METHODS****Publication Classification**(71) Applicant: **Nanolumens Acquisition, Inc.**,
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Gainesville, GA (US)(21) Appl. No.: **17/867,185**(22) Filed: **Jul. 18, 2022**(51) **Int. Cl.****H05K 5/00** (2006.01)**H05K 5/02** (2006.01)**F21V 19/00** (2006.01)**G09F 9/302** (2006.01)**G09F 15/00** (2006.01)(52) **U.S. Cl.**CPC **H05K 5/0021** (2013.01); **H05K 5/0017**(2013.01); **H05K 5/0256** (2013.01); **F21V****19/00** (2013.01); **G09F 9/3023** (2013.01);**G09F 15/0037** (2013.01); **G09F 15/0031**(2013.01); **G09F 9/3026** (2013.01); **G09F****13/0468** (2021.05)**Related U.S. Application Data**(63) Continuation of application No. 17/306,944, filed on
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(57)

ABSTRACT

Display modules have a plurality of light emitting elements arranged in a predetermined pattern and providing a highly uniform visual effect. Methods are provided to support a plurality of flexible display modules in an adjustable curved arrangement. Alignment and complementary alignment features enable the alignment of adjacent display modules and the creation of large displays from a plurality of aligned display modules. Features to couple to and retain a support frame are provided. Flexible and durable weather resistance features are provided. A system of modular support frames works cooperatively with the display modules, adapting to different mounting environments, and thereby providing large modular displays with desirable properties.

