[0005] Other known mechanisms for operating such slide-out rooms include hydraulic actuators engaged between the floor of the room and the frame of the vehicle. Such mechanisms may have difficulty in positioning the room in a manner that provides an effective seal between the outer wall of the room and the outer wall of the vehicle when the room is retracted.

[0005a] In view of the above, according to a first aspect of the present disclosure, there is provided a system comprising: a mounting structure defining an opening there through, the mounting structure comprising a peripheral frame defining a first corner, a second corner, and a third corner; and a slide-out room operably connected to the mounting structure for selective translation through the opening, the slide out room comprising: a first corner unit having a first body, a first drive screw rotatably attached to the first body, a first drive block threadingly engaged with the first drive screw and slidingly engaged with the first body, and a first drive bracket connected between the first drive block and the peripheral frame proximate the first corner thereof; a second corner unit having a second body, a second drive screw rotatably attached to the second body, a second drive block threadingly engaged with the second drive screw and slidingly engaged with the second body, and a second drive bracket connected between the second drive block and the peripheral frame proximate the second corner thereof; and a third corner unit having a third body, a third drive screw rotatably attached to the third body, a third drive block threadingly engaged with the third drive screw and slidingly engaged with the third body, and a third drive bracket connected between the third drive block and the peripheral frame proximate the third corner thereof; wherein rotation of the first drive screw in a first direction of rotation results in translation of the first corner unit through the opening in a first direction of translation; and wherein rotation of the first drive screw in a second direction of rotation results in translation of the first corner unit through the opening in a second direction of translation.

[0005b] According to a second aspect of the present disclosure, there is provided a method for building a system comprising a slide-out room and a mechanism for operating the slide-out room, comprising: providing a first corner unit having a first body, a first drive screw rotatably attached to the first body, and a first drive block threadingly engaged with the first drive screw and slidingly engaged with the first body, and a first drive bracket connected to the first drive

block; providing a second corner unit having a second body, a second drive screw rotatably attached to the second body, a second drive block threadingly engaged with the second drive screw and slidingly engaged with the second body, and a second drive bracket connected to the second drive block; and providing a third corner unit having a third body, a third drive screw rotatably attached to the third body, a third drive block threadingly engaged with the third drive

screw and slidingly engaged with the third body, and a third drive bracket connected to the third drive block; connecting a first panel between the first corner unit and the second corner unit; and connecting a second panel between the second corner unit and the third corner unit.

[0005c] According to a third aspect of the present disclosure, there is provided a component of a slide-out room, comprising: a body; a drive screw rotatably attached to the body; a drive block threadingly engaged with the drive screw and slidingly engaged with the body; and a drive bracket connected to the second drive block and extending therefrom.

[0005d] According to a fourth aspect of the present disclosure, there is provided a system comprising: a mounting structure defining an opening there through, the mounting structure comprising a peripheral frame; and a slide-out room operably connected to the mounting structure for selective translation through the opening, the slide out room comprising: a first corner unit having a first body, a first drive screw rotatably attached to the first body, a first drive block threadingly engaged with the first drive screw and slidingly engaged with the first body, and a first drive bracket connected between the first drive block and the peripheral frame at a first location; and a second corner unit having a second body, a second drive screw rotatably attached to the second body, a second drive block threadingly engaged with the second drive screw and slidingly engaged with the second body, and a second drive bracket connected between the second drive block and the peripheral frame at a second location; wherein rotation of the first drive screw in a first direction of rotation results in translation of the first corner unit through the opening in a first direction of translation; and wherein rotation of the first drive screw in a second direction of rotation results in translation of the first corner unit through the opening in a second direction of translation.

BRIEF DESCRIPTION OF THE DRAWINGS

[0006] Fig. 1 is a perspective view of a travel trailer including a slide-out room and operating mechanism according to the present disclosure showing the slide-out room in an extended position;

[0007] Fig. 2 is a perspective view of a travel trailer including a slide-out room and operating mechanism according to the present disclosure showing the slide-out room in a retracted position;

[0008] Fig. 3 is a detail perspective view of a slide-out room and operating mechanism according to the present disclosure;

[0009] Fig. 4 is another detail perspective view of a slide-out room and operating mechanism according to the present disclosure;

[0010] Fig. 5 is a perspective view of a slide-out room and operating mechanism according to the present disclosure installed in a mock-up of a side wall of a vehicle or other structure;

[0011] Fig. 6 is a perspective view of a corner unit as a component of a slide-out room attached to a portion of a mounting structure according to the present disclosure;

[0012] Fig. 7 is an exploded perspective view of an operating mechanism for a portion of a slide-out room according to the present disclosure;

[0013] Fig. 8 is a detail perspective view of a stop block of an operating mechanism for a portion of a slide-out room according to the present disclosure;

41. The system of claim 40 wherein the first panel has a curvilinear profile.

42. The system of claim 40 or 41 further comprising:
a third panel connected between the third corner unit and the first corner unit.