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(54) **METHODS AND APPARATUS FOR CONCRETE PANEL CONNECTIONS**

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(57) **ABSTRACT**

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Methods and apparatus for coupling adjacent concrete panels increase the tolerance for setting. Connections members are placed in at least one of the adjacent concrete panels. In one embodiment a first connection member is placed in a first panel and a second connection member is placed in a second panel. A plate is placed over the first and second connection member. Fasteners are inserted through the plate and into each connection member to secure the adjacent panels together. In a second embodiment a rotatable connection member is placed in a first panel. The rotatable connection member includes a first rod rotatably coupled to a second rod. The second panel is placed on the first panel. The connection member is rotated from its first position to its second position and is secured to the second panel. The connection members may be cast in the panels during production.

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