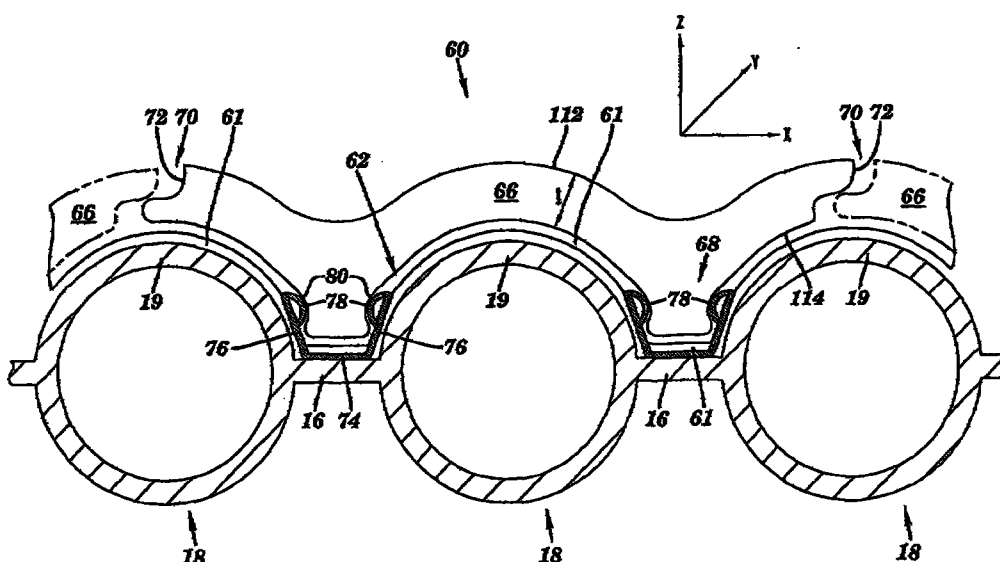




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(54) Title: REFRACTORY TILE SYSTEM FOR BOILER TUBE/HEAT EXCHANGER PROTECTION  (57) Abstract A refractory tile system (60) includes a barrier layer coating (61) applied to the wall (16) of a boiler. Refractory tiles (66) are then fastened to the tube wall (16) utilizing a floating attachment mechanism (68) to provide a relatively high degree of freedom of movement relative to the tube wall to accommodate micro-scale bowing of the tile generated by the relatively large temperature gradient and mean temperature typically experienced by such tiles. Each tile (66) is also isolated from adjacent tiles by providing a predetermined gap (70) therebetween of sufficient size to effectively prevent macro-scale bowing. Moreover, a compressible fibrous mortar is disposed in the gap between each adjacent tile to prevent contaminants from passing therethrough.		