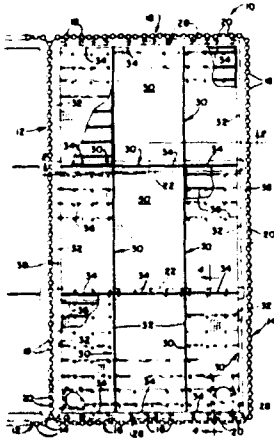


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SUPPORT SYSTEM FOR A FLUIDIZED BED

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poration

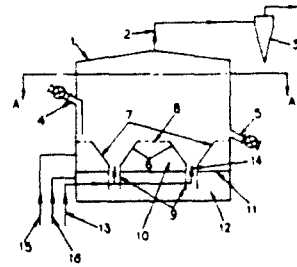


A system for supporting a fluidized bed in a boiler in which a plurality of support frames are supported in an abutting relationship spanning the interior of the boiler. One or more of the support frames are connected or attached relative to each other and to their supports in a manner to permit limited relative movement between the frames and between each frame and its support. A grid is supported by each frame and is connected or attached thereto in a manner to permit limited movement of the grid relative to the frame.

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GRANULE PRODUCING APPARATUS

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A granule producing apparatus comprises; an exhaust means provided to the top of the container; a space in the upper interior of the container for separating solid material from gases; a space for a fluid bed in the lower interior of the container; a porous floor immediately below the fluid bed space for defining the lower limit of the fluid bed; an air chamber beneath the porous floor for supplying air streams to form the fluid bed; a means for supplying jet stream of air, provided below the fluid bed air stream supply chamber; a plurality of parallelly arranged funnels, said each funnel consisting of an inverse truncated cone and a cylindrical pipe connected to the lower end of the cone, said upwardly enlarged cone opens into the interior of the container with its upper end merging with the porous floor, said each cylindrical pipe having its lower end connected to the jet stream supply means; a means disposed within the upper portion of the cylindrical pipe of each funnel for spraying liquid under pressure into the jet air stream so that the sprayed liquid adheres to the granules and solidifies as it dries; a means fitted to the side wall of the container for supplying granules into the fluid bed space; and a means fitted to the side wall of the container for discharging the granules treated out of the fluid bed space.