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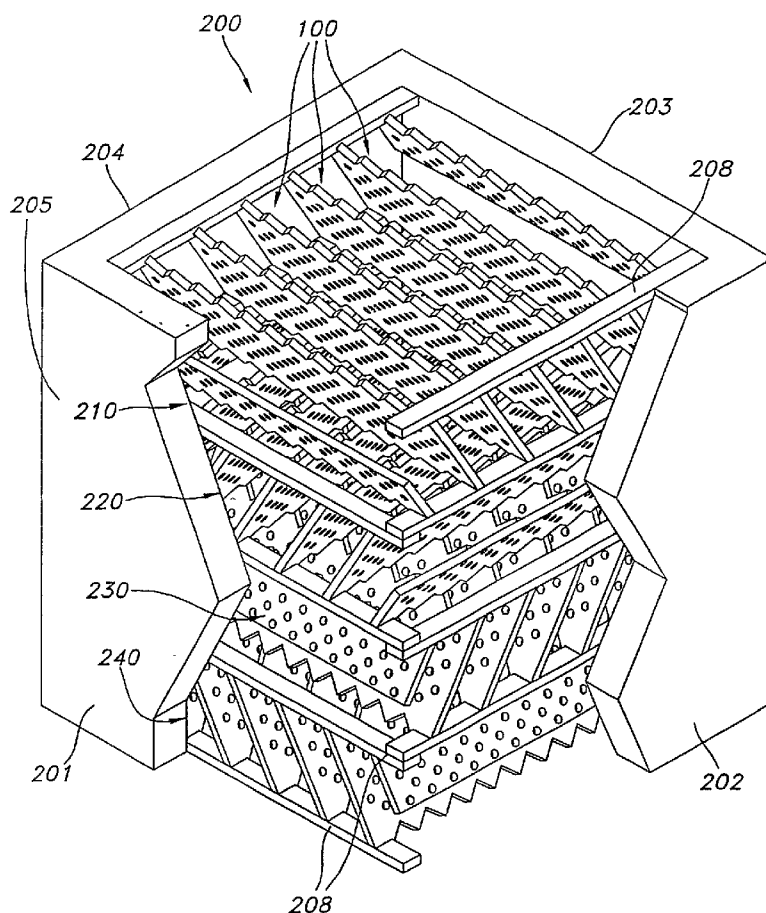
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(54) Title: APPARATUS FOR COUNTERCURRENT CONTACTING OF GAS AND SOLIDS



(57) Abstract: An apparatus (200) for the countercurrent contacting of a gas and downflowing solid particles includes a housing (205) and a plurality of baffles (100) positioned within the housing. The baffles are arranged in at least first and second vertically spaced levels in successively lower position, each of the first and second levels including a row of at least two baffles oriented parallel to one another and inclined from horizontal so as to facilitate movement of the solid particles and provide the maximum area for flow. Baffles are oriented so as to laterally shift the direction of downflowing particles transversely as the particles move from one level to the next lower level and avoid channeling of the phases. The number of baffles, length and spacing is optimized to provide maximum interfacial area for interaction between the phases.



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