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THREE-PHASE SEPARATOR

ABSTRACT OF THE DISCLOSURE

A motion insensitive phase separator for separating oilfield production fluid phases includes a tank having a pair of opposing inlets and three generally centrally arranged outlets for different phases of a production fluid mixture fed into the tank simultaneously through the inlets. Separation media is disposed in the tank for separating the different phases of the production fluid, The separation media include antifoam media at opposite ends of the tank and further includes demisting media proximately to the median plane, on opposite sides thereof. Flow regulators, such as perforated plates, are disposed substantially vertically in the tank between the antifoam media and the demisting media. The separation media and the flow regulators are disposed generally symmetrically about a central transverse plane, thereby providing for a symmetrical flow and weight distribution for motion insensitivity.

Figure 3