


ICOME2013 Submission 98

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Submission 98	
Title	KEROSENE-WATER FLOW STRUCTURE IN T-JUNCTION VERTICAL DIAMETER RATIO 0.5 (SLOPE ANGLE VARIATION BRANCH)
Submission:	 (Jul 25, 22:12 GMT) (previous versions)
Author keywords	phase separation T-junction flow patterns downstream resistance flow pattern (728), phase separation (130), flow resistance r3 (95), flow resistance r2 (95), inlet stmi (90), phase flow (90), multiphase
EasyChair keyphrases	flow (90), flow resistance (80), kerosene water (60), diameter ratio (60), superficial velocity (50), mixture interface (50), junction flow pattern (47), t junction flow (47), oil water flow (47), disperse oil (40), test section (40)
Abstract	Kerosene-water flow structure at the T-junction plays an important role in determining the performance of phase separation. Based on consideration of these researchers conducted observations of the flow in the branching structure of the T-junction with a diameter ratio of 0.5, bend radius 15 mm and vertically upward T-junction by variation 30o, 60o and 90o. Observation of flow patterns on the test section by using a video recorder camera for 36 mm inside diameter acrylic pipe. This work under condition on various of superficial water velocity (J_w) 0.20 m / s ~ 0.39 m / s and kerosene superficial velocity (J_k) 0, 14 m / s ~ 0.26 m / s, 49 ~ 70% watercut with various downstream resistance 6087 Pa, 7491 Pa and 8373 Pa. Based on observations of the flow pattern shows that the increasing superficial velocity of one phase flow will result flow pattern change : Stratified-1 (ST-1), Three Layer-1 (3L-1), Three-Layer 13 (3L-13) , Three Layer-2 (3L-2), and Three Layer-3 (3L-3). Downstream resistance also play a role in changes in the flow pattern and the best separation is achieved under conditions 3L-3 flow pattern, angle 90 ° and downstream resistance 8373 Pa.
Submitted	Jun 14, 06:38 GMT
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Reviews

Review 1	
Additional scores	
Review	
<i>Review</i>	<ul style="list-style-type: none">- Authors also will submitted this paper to International Journal of Engineering Inventions.- Experimental setup and research method are not clear and very simple.- The research result contains several errors.- Authors seen to rush the discussion. There are some arguments that need more explanations.

Review 2	
Additional scores	
Review	
<i>Review</i>	<ol style="list-style-type: none">1). This paper is possible being under consideration to be published in a particular journal.2). English grammar needs to be evaluated seriously.3). The method of presenting citations does not follow the paper template.4). The English, sentence, and paragraph presentations need to be corrected significantly.5). Many disagreements between subjects and predicates are found in the text. The misuse of capital letters are found in many places.6). This paper can be accepted if conditions stated in 1) to 5) above and major revision can be conducted by the author(s) within the prescribed time, otherwise the paper will be rejected for either oral or poster presentation.

