

ABSTRACT

[Title of Document] Abstract

[Title of the Invention] **METHOD FOR METHANE FERMENTATION
OF ORGANIC WASTES**

[Abstract]

[Problem] To provide a means capable of removing efficiently contaminant which interferes with stable operation of membrane, and decreasing organic substance accompanied with the contaminant to reduce treating cost of discharged residue

[Solving Means] The above problem is solved by an apparatus for methane fermentation of organic waste with membrane separation which comprises a first separator separating the organic waste to be charged in a fermenter, and a second separator separating the fermentation broth which is discharged from the fermenter and sent to the membrane separation tank, wherein the mesh size of the first separator is 1.0 mm or more and 10 mm or less, and the mesh size of the second separator is 0.5 mm or more and 3.0 mm or less, and the mesh size of the first separator is larger than the mesh size of the second separator, and at least a part of the residue separated by the second separator is returned to the fermenter.

[Selected Drawing] Figure 1