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(54) **Method and system for improving fuel economy and environmental impact operating a 2-stroke engine**

(57) The present invention relates to a method of and a corresponding system for reducing fuel consumption and environmental impact in a two-stroke engine, comprising the steps of obtaining system oil/consumable system oil (301') from at least one engine (300), adding (102) at least one friction modifier (101) to at least a part of the obtained system oil/consumable system oil (301'), where the addition of the at least one friction modifier (101) reduces the friction coefficient of the obtained system oil/consumable system oil (301'), resulting in a system oil/consumable system oil with reduced friction (301''), and supplying said system oil/consumable system oil with reduced friction (301'') to said at least one engine (300).

In this way, frictional losses caused by contamination of the system oil/consumable system oil are avoided or minimised, which normally take place as the oil is used and which would otherwise cause a continuous decrease in engine efficiency resulting in increased fuel consumption and emissions.

In addition, the present invention related to a method and a corresponding system to convert system oil/consumable system oil into cylinder oil. Finally, the present

invention relates to a method to use a consumable system oil as it is being converted into cylinder oil. This furthermore allows for the consumable system oil to contain a lower performance additive package and/or additive treat rate.

Thus great economical savings and environmental improvements are achieved.

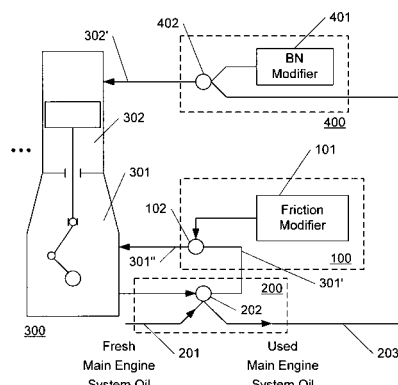


Figure 1



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 05 38 8100

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 12 January 2007	Examiner Keipert, Olaf
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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