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(71) Applicant (for all designated States except US): **ABB TECHNOLOGY LTD** [CH/CH]; Affolternstrasse 44, 8050 Zurich (CH).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SUBBIAH, Senthilmurugan** [IN/IN]; 5/613 J, Krishna Nagar, Inamaniyachi Village, Tuticorin Dist, Tamilnadu, 628503 Kovilpatti (IN). **MEKAPATI, Srinivas** [IN/IN]; 3rd Line, 4th Cross Road, House Number, 6-3-8, Andra Pradesh, Arundelpet 522002 (IN).

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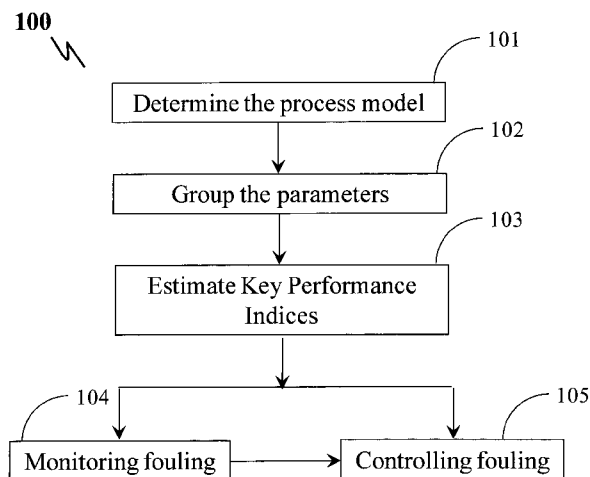
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(54) Title: A METHOD AND A SYSTEM FOR MONITORING AND CONTROL OF FOULING AND AND OPTIMIZATION THEREOF OF TWO SIDE MEMBRANE FOULING PROCESS

**Fig. 1**

(57) Abstract: The invention provides a method for monitoring fouling of a two side membrane fouling process. The method for monitoring fouling of a two side membrane fouling process comprises determining the process model for the said two side membrane fouling process. The parameters of the said process model are grouped based on the interactions thereof between the parameters so as to form one or more groups of parameters. At least one key performance index is estimated in relation to one or more groups of parameters. And, the fouling of the said two side membrane fouling process is monitored correspondingly in relation to at least one key performance index. The invention also provides a method for controlling fouling of a two side membrane fouling process, and a method for optimizing the two side membrane process.