1. No.
   2022G036

2. Title
   Prevention System for the COVID-19 Virus Cough Infection

3. Period
   2022-2024

4. Summary
   This new invention with the support of the Smoking Research Foundation, shows that it is possible to predict "coughs" at "smoking sites". We were able to proceed with the development of the system and feasibility studies, and have achieved the result that medical diagnosis is possible. The possibility of a system that can diagnose and predict "coughs" even at smoking sites, activate partitions, physically separate the space, or prevent infection by air conditioning, etc. has become clear. In the future, the Industry-Academia Collaboration Organization team, which specializes in AI information analysis, will measure body surface behavior in real time, and will use time series and spectrum analysis, nonlinear mathematical theory to quantify chaos analysis and fractal dimension information, and mathematical analysis of complex systems to calculate information entropy from information dimensions and use artificial intelligence logic to diagnose the occurrence of "coughs". We will clarify the nonlinear transmission of biological information, and proceed with the refinement of the system with the aim of social implementation, and proceed with the development and design of an infection blocking system with the aim of deploying it in clinical practice, and offer it to the market through commercialization, ultimately aiming to make all smoking sites safe.