airflow to cater to the breathing needs of an individual. These products are typically bulky and require significant power supply to maintain a prolong airflow and pressure. The power supply is usually external and not part of the protective body to meet the high airflow rates. These products are therefore, not suitable for daily usage of general public.

Therefore, an active venting system is needed which when incorporated into respiratory devices or protective gears, can be used comfortably for prolong usage and is suitable for general public. Further, ~~it is required that~~ such device should minimize facial contact of the hot and humid exhaled air which causes discomfort to a wearer and have an effective means of exhausting heat and moisture in each exhalation cycle.

BRIEF SUMMARY OF THE INVENTION

It is, therefore, an aim of the disclosed embodiments to provide for an active venting system for venting heat, moisture and exhaled air from a protective gear or a respiratory device covering mouth and nose.

The active venting system for attaching on a protective gear or respiratory device according to an aspect of the present invention comprises: a shell; a blower placed within the shell and having a first inlet, a second inlet and an outlet, the first inlet corresponding to the interior of the protective gear or the respiratory device, the second inlet facing to the interior of the shell, the blower venting the exhaled air from the protective gear or the respiratory device via the first inlet and the outlet and venting the air from the interior of the shell via the second inlet and the outlet; and a control unit placed within the shell and controlling the blower.