CLAIMS

1. A diving mask (10) comprising:

a body (12) having a faceplate (20) and a flexible skirt (22), said flexible skirt (22) including a partition (40) separating a top chamber (50) for vision from a bottom chamber (52) for breathing, the partition (40) being arranged to bear on the user's nose so that the user's mouth and nose are situated in the bottom chamber (52) while the user's eyes are situated in the top chamber (50), the partition including at least one passage (54) arranged to allow fresh air to flow between the top chamber (50) and the bottom chamber (52) during a stage in which the user is breathing in; and

a snorkel (18) arranged to extend a top portion (14) of the body (12), the snorkel (18) including at least one air duct (90);

wherein the body (12) includes an exhaled air exhaust device (100) putting the bottom chamber (52) into fluid-flow connection with the air duct (90) of the snorkel (18);

the diving mask being characterized in that the body (12) includes at least a first check valve (140) arranged to allow exhaled air from the bottom chamber (52) to flow towards the air duct (90) of the snorkel (18) during a stage in which the user is breathing out, the first check valve (140) being closed during a stage in which the user is breathing in, in that the exhaled air exhaust device (100) includes at least a first exhaled air exhaust channel (102) extending along one of the side edges of the faceplate between a bottom portion of the face plate and a top portion of the face plate, the flexible skirt having a first side portion that covers the first exhaled air exhaust channel (102), in that the first exhaled air exhaust channel (102) includes a bottom end portion (102a) having at least one opening (150) opening out into the bottom chamber (52), and in that the first check

valve (140) is arranged to close said opening during a stage in which the user is breathing in.

2. The diving mask according to claim 1, characterized in that the first check valve (140) is arranged between the bottom chamber (52) and the exhaled air exhaust device (100).

3. The diving mask according to claim 1 or claim 2, characterized in that the first check valve (140) is arranged in the bottom chamber (52).

4. The diving mask according to any one of claims 1 to 3, characterized in that the first check valve (140) is arranged in a bottom end portion (101) of the exhaled air exhaust device (100).

5. The diving mask according to any preceding claim, characterized in that the first check valve (140) includes a flexible membrane (142).

6. The diving mask according to claim 5, characterized in that the flexible membrane (142) is constituted by a portion of the flexible skirt (22).

7. The diving mask according to claim 5 or claim 6, characterized in that the first check valve (140) includes a valve seat (144) co-operating with the flexible membrane (142), the valve seat (144) being integral with the faceplate.

8. The diving mask according to any preceding claim, characterized in that the first exhaled air exhaust channel (102) is integral with the faceplate.

9. The diving mask according to any one of claims 5 to 7, characterized in that the flexible membrane (142) is situated inside the first exhaled air exhaust channel (102), in register with said opening (150).

10. The diving mask according to any one of claims 1 to 9, characterized in that the exhaled air exhaust device (100) further includes a second exhaled air exhaust channel (104), and a second check valve (160) arranged to allow exhaled air from the bottom chamber (52) to flow towards the air duct (90) of the snorkel during a stage in which the user is breathing out, the second check valve (160) being closed during a stage in which the user is breathing in.

11. The diving mask according to any preceding claim, characterized in that the snorkel (18) includes a single air duct (90) that is in fluid-flow communication with the bottom chamber and with the top chamber.

12. The diving mask according to any preceding claim, characterized in that the partition (40) includes at least one check valve (56) arranged to allow fresh air from the top chamber (50) to flow towards the bottom chamber (52) only during a stage of the user breathing in.

13. The diving mask according to claim 12, characterized in that the check valve (56) includes a flexible flap (58) constituted by a portion of the flexible skirt.