CLAIMS

~~1. A lighting/sound-producing device activated by inflated balloon, comprising a lighting lamp/sounder, a battery, and a housing at least covering the lighting lamp/sounder, wherein the housing comprises:~~

~~an inlet end to let air or other gases into the housing,~~

~~an outlet end to discharge air or other gases from the housing, and~~

~~an air channel to connect the inlet end and the outlet end so that a through passage for air flow is formed within the housing; and~~

~~the lighting lamp/sounder is provided within the air channel and has a sealing device for sealing off the air channel.~~

A lighting/sounding device activated by inflation of a balloon (9, 190, 290), comprising a lighting lamp/sounder (1, 110, 210), a battery (4, 140, 240), and a housing (5, 150, 250) at least covering the lighting lamp/sounder (1, 110, 210), wherein the housing (5, 150, 250) comprises:

an inlet end (51)to let air or other gases into the housing (5, 150, 250),

an outlet end (52) to discharge air or other gases from the housing (5, 150, 250), and

an air channel (6, 160, 260) to connect the inlet end (51) and the outlet end (52) so that a through passage for air flow is formed within the housing (5, 150, 250); and

the lighting lamp/sounder (1, 110, 210) is provided within the air channel (6, 160, 260) and has a sealing device (2, 120, 220) for sealing off the air channel (6, 160, 260),

characterized in that

the lighting lamp/sounder (1, 110, 210) has a supporting and fixing holder (3, 130, 230) that covers the lighting lamp/sounder (1, 110, 210) at least from one cross section so that the lighting lamp/sounder (1, 110, 210) has an outer wall on said cross section, and

said outer wall is sleeved with the sealing device (2, 120, 220) in a ring-shaped structure, and is located within the air channel (6, 160, 260).

2. The lighting/sound-producing device activated by inflated balloon according to claim 1, wherein the sealing device is any one selected from the group consisting of an O-ring, a seal ring, and a seal coil.

~~3. The lighting/sound-producing device activated by inflated balloon according to claim 1, wherein the lighting lamp/sounder has a supporting and fixing holder that covers the lighting lamp/sounder at least from one cross section so that the lighting lamp/sounder has an outer wall on said cross section.~~

~~4. The lighting/sound-producing device activated by inflated balloon according to claim 3, wherein said outer wall is sleeved with a sealing device in a ring-shaped structure, and is located within the air channel.~~

3.~~5.~~ The lighting/sound-producing device activated by inflated balloon according to claim 1, wherein the sealing device of the lighting lamp/sounder is a seal coil or a seal ring projecting from the exterior margin of the lighting lamp/sounder.

4.~~6.~~ The lighting/sound-producing device activated by inflated balloon according to claim 1, wherein the air channel forms a reduced neck portion around which a platform is provided; a seal gasket is provided at one end of the lighting lamp/sounder, which projects from the end of the lighting lamp/sounder and has a flat contact surface; and said seal gasket has a diameter larger than that of the reduced neck portion so that the contact surface is able to form a sealing contact with the platform.

5.~~7.~~ The lighting/sound-producing device activated by inflated balloon according to claim 5, wherein the inner wall of the housing has a bell-like structure, the lighting lamp/sounder sleeved with the seal coil or seal ring is located inside the bell, and a clearance between the lighting lamp/sounder and the housing constitutes the air channel.

6.~~8.~~The lighting/sound-producing device activated by inflated balloon according to claim 1, wherein the lighting/sound-producing device is provided inside a balloon and is fixed onto the inner wall of the balloon by an external cover with an exhaust port connected to the outlet end of the lighting/sound-producing device to form the air channel; and, a piercing device is provided where the lighting/sound-producing device contacts the inner wall of the balloon within the external cover, and has a pointed tip to pierce the inner wall of the balloon when the external cover is fixed onto the lighting/sound-producing device to form the air channel.

7.~~9.~~The lighting/sound-producing device activated by inflated balloon according to claim 1, wherein the inlet end has a top ring with a hollow middle part and a projecting top protrusion fixed onto the top ring via two side walls.

8.~~10.~~The lighting/sound-producing device activated by inflated balloon according to claim 1, wherein the lighting lamp/sounder is elastically provided inside the air channel and is supported by an elastic mechanism which is fixed within the air channel and has an electrical conductivity to connect a control circuit of the lighting lamp/sounder.