Patent claims

1. A console including light-emitting means that are intended to be combined with identical or different signalling means, consisting of at least one first frame element including an upper part with a front side and a lower part with a rear side that is intended to be mounted to a mounting surface, and a first light-emitting means that is directly or indirectly arranged on the frame element, wherein the frame element

a) comprises at least two parts in the direction of a central axis and comprises at least one groove between the front side and the rear side, which groove extends at least partially around the central axis on the outer side, and which groove is having a outer side, the outer side defining a bottom of the groove and

a1) the upper part and the lower part can be connected to each other at least in the axial direction of the central axis, wherein the groove can be divided due to said connection and

b) the light-emitting means is arranged in the groove in the area of the outer side, and

b1) a light-conducting component is supported in the groove, which component extends in the radial direction, relative to the central axis, between the two planes of the front and rear sides and

c) the frame element comprises a recess , which extends in axially direction of the central axis across the height of the frame element, the recess includes an inner side which limits the recess, which recess serves to accommodate an electrical signalling means, wherein the frame element insulates and shields via the inner side the signalling means from the heat that is generated by the light-emitting means and is transferred by conduction or convection.

2. A console according to claim 1, wherein the upper part forms a first side wall of the groove and the lower part forms a second side wall of the groove.

~~3. A console according to any one of the preceding claims, wherein the upper part and the lower part can be connected to each other at least in the axial direction of the central axis, wherein the groove can be divided due to said connection.~~

43. A console according to any one of the preceding claims, wherein the frame element is made of a material whose thermal conductivity is not higher than 1 W/ (m*K) or is at least 10 W/ (m*K).

54. A console according to any one of the preceding claims, wherein the frame element comprises an insulation layer that is arranged in the radial di-

rection, relative to the central axis, between an inner side and the light-emitting means.

~~6. A console according to any one of the preceding claims, wherein a light-conducting component is supported in the groove, which component extends in the radial direction, relative to the central axis, between the two planes of the front and rear sides.~~

~~7~~5. A console according to any one of the preceding claims, wherein the size of the front side and/or the mass of the frame element is/are dimensioned in accordance with the heat introduced by the light-emitting means, in such a manner that the surface temperature of the frame element is max. 46° Celsius on the front side when the ambient temperature is up to 20° Celsius.

~~8~~6. A modular system consisting of several consoles according to any one of the preceding claims, wherein the consoles can be connected to each other by means of the components so as to achieve a direct or indirect mechanical and/or light-conducting connection.

~~9~~7. A modular system consisting of several consoles according to any one of the preceding claims 1 to ~~7~~5, wherein an intermediate component is provided between at least two consoles, which intermediate component serves to connect at least two components so as to achieve a mechanical and/or light-conducting connection.

~~10~~8. A safety system consisting of one or several consoles or of a modular system according to any one of the preceding claims and an electrical signalling means that can be positioned in the recess, wherein the signalling means is designed as a smoke detector or smoke alarm.

~~11~~9. A safety system according to claim ~~10~~8, wherein an air gap of between 0.5 mm and 1.2 mm is provided between the frame element and the smoke detector or smoke alarm in any desired direction.

~~12~~10. A safety system according to any one of claims 1 to ~~9~~7, wherein the signalling means is designed as a lamp or as a loudspeaker or as a camera or as another electrical or hydraulic signalling means, wherein the lamp, the loudspeaker or the camera comprises a housing whose diameter corresponds to a diameter of the housing of the smoke detector or smoke alarm.

~~13~~11. A safety system according to any one of claims ~~10-8~~ to ~~12~~10, including an electronic control unit, wherein at least one first signalling means can transmit an electronic signal to the electronic control unit, and the electronic control unit causes a second signalling means to output an acoustic and/or optical signal.

~~14~~12. A safety system according to any one of claims ~~10-8~~ to ~~13~~11, wherein one or several light-emitting means and/or lamp(s) change their characteristics in accordance with one or several signal(s) of a smoke detector.

~~15~~13. A safety system according to any one of claims ~~10–8~~ to ~~14~~12, wherein the characteristics of the light-emitting means and/or the lamps of at least one console can be controlled in accordance with the characteristics of the light-emitting means and/or the lamps of another console.