

GAS SAFETY
**MONITORING
AND ASSISTANCE**
DEVICE



Research and Exploration

Carbon monoxide and gas poisoning are actually very close to us.

1、 In my research in Huangbian Village, Guangzhou City, I found that the population is crowded and the usage rate of gas cylinders is relatively high. As the villagers generally lack awareness of the safe use of gas, nearly 80% of the interviewees in my survey have a fluke mentality. They believed that gas accidents will not happen to themselves. Usually gas water heaters are installed in closed and unventilated bathrooms in violation of regulations, and the ventilation equipment is not perfect, so carbon monoxide poisoning incidents happen from time to time. In the use of kitchen gas cylinders and stoves, there are common occurrences of aging gas cylinders, uneven quality of gas connection pipes, uneven installation techniques, illegal and overdue use of stoves, and frequent fire safety accidents caused by gas leakage.



2、 According to the 2020 China Gas Network, there are 539 gas safety accidents nationwide, 88 deaths, 496 injured, and the installation rate of gas alarm devices is less than 10%.



3、 Users do not like to use existing gas safety detection and help-seeking equipment. The survey found that 90% of users believe that the equipment has single functions, lack of remote alarm and interactive management, and unfriendly experience. They hoped to increase the functions of emergency help and association with the government emergency platform.

Conclusion

In general, old and dilapidated buildings and gas equipment, weak safety awareness and single-function help equipment are the main components of the current gas safety



4、 In several of my surveys, each time I went around 2 p.m. At this particular point in time, most of them have young people and middle-aged people who are working. None of them are in the village. Many elderly people who go out for walks alone, or with children caught my attention. Because of the lack of security awareness, they are difficult to respond to impending safety incidents in a timely manner.

What elders are facing:

Old device

Weak safety awareness

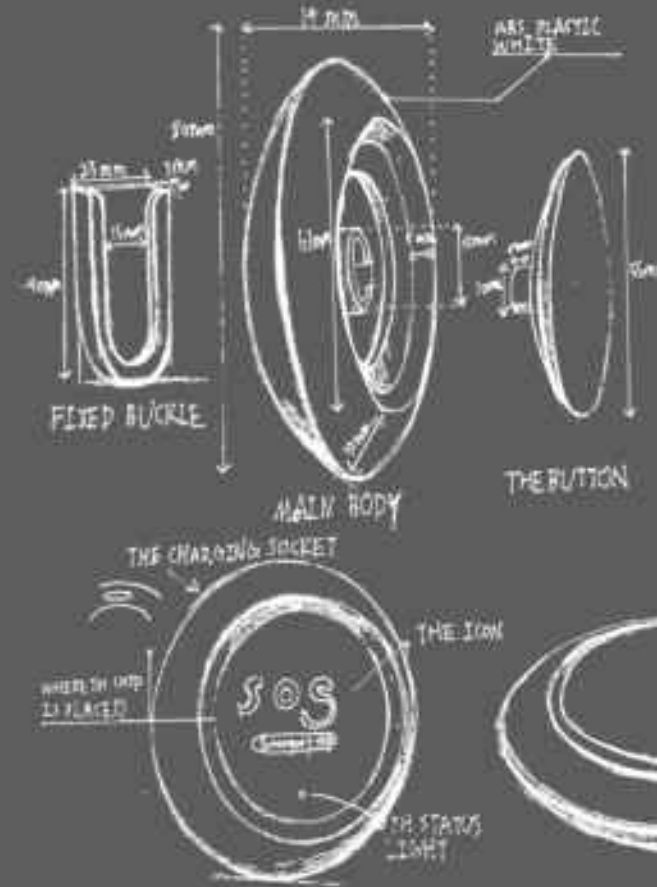
Narrow space

Old building

Solution

In view of the above research, I believe that the market needs a better [gas safety detection and help device] in terms of function and user experience to meet the needs of users, especially middle-aged and elderly users over 60 years old.

- 1、 Multi-function, integrating gas safety monitoring + emergency or disease call for help;
- 2、 Remote interaction to achieve linkage interaction with mobile terminals and government emergency platforms;
- 3、 The appearance design has a sense of science and technology, large buttons, adding clear function logos to use it more conveniently.



Creative Inspiration

Why do I choose flying saucer as the basis of product modeling?

I choose it because the symbol of flying saucer can be easily associated with technology, speed and efficiency.

This coincides to a certain extent with my idea of integrating more interactive functions into the device to enhance the user experience.

It is made into a circle as it extends the same area in each direction, which means that the time it takes for the user to trigger the button in each direction is the same.



Interactive interface

We achieve One-click solution to gas safety detection and emergency assistance.

In addition to the gas safety detection function, the main users of the help system are people over 60 years old. Combined with their vision, physical reaction and sensitivity to intelligent devices, the device simplifies the interface identification, text, operation and other aspects, and realizes easy operation.

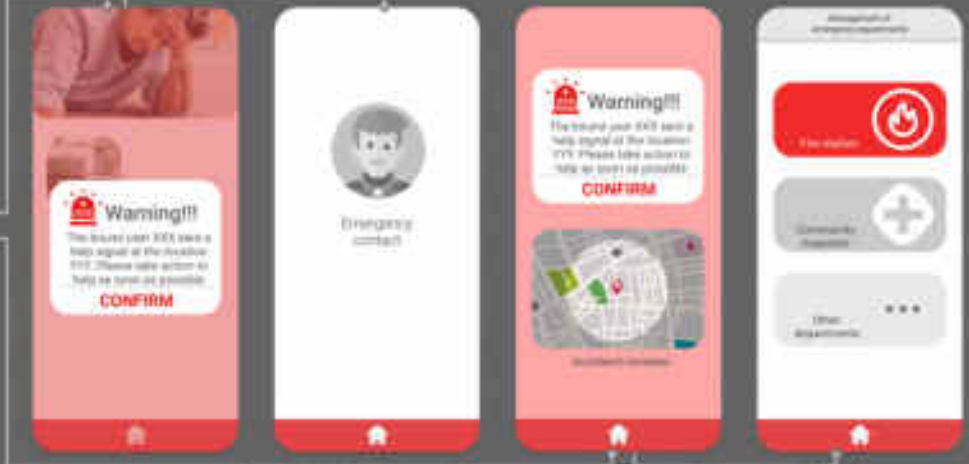


The help device triggers the page

The help device is triggered

A request for help message is sent

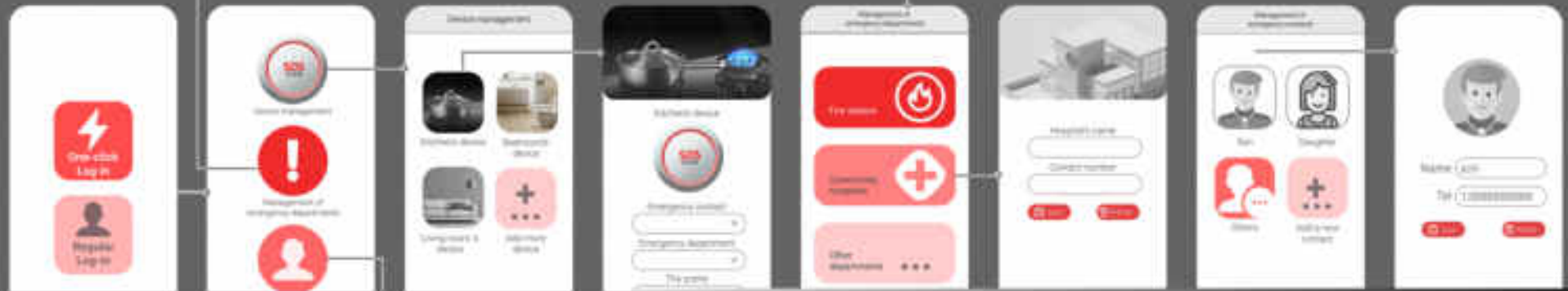
Bind a contact to receive information



Feedback information to the Emergency Response Center

Respond to a request for help

Emergency department editorial management



Device management page