What is claimed is:

1. A gas pipeline leakage detection method, comprising:

acquiring a representative value of explosion possibility and explosion damage consequence data of each underground space surrounding a gas pipeline of all underground spaces surrounding the gas pipeline;

determining an explosion risk assessment value of each underground space surrounding the gas pipeline according to the representative value of explosion possibility and the explosion damage consequence data;

determining underground spaces surrounding the gas pipeline having the explosion risk assessment value greater than a preset value as a plurality of underground spaces surrounding the gas pipeline, wherein sensors are respectively arranged in the plurality of underground spaces surrounding the gas pipeline;

detecting concentration of flammable gas in ~~a~~ the plurality of underground spaces surrounding ~~a~~ the gas pipeline through the sensors;

determining whether the concentration of the flammable gas meets a leakage condition wherein determining whether the concentration of the flammable gas meets the leakage condition comprises: in response to the concentration of the flammable gas in the underground space surrounding the gas pipeline at a current moment and the concentration of the flammable gas in the underground space surrounding the gas pipeline at a previous moment being both greater than or equal to a first preset concentration, and a difference between the concentration of the flammable gas at the current moment and the concentration of the flammable gas at the previous moment being greater than zero and less than a second preset concentration, determining that the leakage of the gas pipeline is a slight leakage; in response to the concentration of the flammable gas at the current moment being greater than or equal to the first preset concentration, and the difference between the concentration of the flammable gas at the current moment and the concentration of the flammable gas at the previous moment being greater than or equal to the second preset concentration, determining that the leakage of the gas pipeline is a serious leakage, wherein the second preset concentration is greater than the first preset concentration;

in response to the concentration of the flammable gas meeting the leakage condition, determining that the gas pipeline has a leakage, and acquiring and reporting a current leakage

position.

~~2. The method of claim 1, further comprising:~~

~~acquiring a representative value of explosion possibility and explosion damage consequence data of each underground space surrounding the gas pipeline of all underground spaces surrounding the gas pipeline;~~

~~determining an explosion risk assessment value of each underground space surrounding the gas pipeline, according to the representative value of explosion possibility and the explosion damage consequence data;~~

~~determining the underground space surrounding the gas pipeline having the explosion risk assessment value greater than a preset value as one of the plurality of underground spaces surrounding the gas pipeline to be monitored.~~

~~3. The method of claim 1, wherein, determining whether the concentration of the flammable gas meets the leakage condition, comprises:~~

~~in response to the concentration of the flammable gas in the underground space surrounding the gas pipeline at a current moment and the concentration of the flammable gas in the underground space surrounding the gas pipeline at a previous moment being both greater than or equal to a first preset concentration, and a difference between the concentration of the flammable gas at the current moment and the concentration of the flammable gas at the previous moment being greater than zero, determining that the leakage of the gas pipeline is a slight leakage;~~

~~in response to the concentration of the flammable gas at the current moment being greater than or equal to the first preset concentration, and the difference between the concentration of the flammable gas at the current moment and the concentration of the flammable gas at the previous moment being greater than or equal to a second preset concentration, determining that the leakage of the gas pipeline is a serious leakage, wherein the second preset concentration is greater than the first preset concentration~~.

~~4~~2. The method of claim 1, further comprising:

identifying a current dangerous area according to the current leakage position and the concentration of the flammable gas;

controlling a preset alarm device to alarm, according to the current dangerous area and a preset alarming mechanism.

~~5~~3. The method of any of claims 1 to ~~4~~2, further comprising:

controlling an opening degree of a corresponding gas pipeline valve according to the leakage position.

~~6~~4. A gas pipeline leakage detection apparatus, comprising:

an acquiring module, configured to acquire a representative value of explosion possibility and explosion damage consequence data of each underground space surrounding a gas pipeline of all underground spaces surrounding the gas pipeline;

an assessment module, configured to determine an explosion risk assessment value of each underground space surrounding the gas pipeline according to the representative value of explosion possibility and the explosion damage consequence data;

a setting module, configured to determine underground spaces surrounding the gas pipeline having the explosion risk assessment value greater than a preset value as a plurality of underground spaces surrounding the gas pipeline; wherein sensors are respectively arranged in the plurality of underground spaces surrounding the gas pipeline;

a detecting module, configured to detect concentration of flammable gas in ~~a~~ the plurality of underground spaces surrounding ~~a~~ the gas pipeline through the sensors;

a determining module, configured to determine whether the concentration of the flammable gas meets a leakage condition, wherein, the determining module is further configured to, in response to the concentration of the flammable gas in the underground space surrounding the gas pipeline at a current moment and the concentration of the flammable gas in the underground space surrounding the gas pipeline at a previous moment being both greater than or equal to a first preset concentration, and a difference between the concentration of the flammable gas at the current moment and the concentration of the flammable gas at the previous moment being greater than zero and less than a second preset concentration, determine that the leakage of the gas pipeline is a slight leakage; in response to the concentration of the flammable gas at the current moment being greater than or equal to the first preset concentration, and the difference between the concentration of the flammable gas at the current moment and the concentration of the flammable gas at the

previous moment being greater than or equal to the second preset concentration, determine that the leakage of the gas pipeline is a serious leakage, wherein the second preset concentration is greater than the first preset concentration;

a processing module, configured to, in response to the concentration of the flammable gas meeting the leakage condition, determine that the gas pipeline has a leakage, and acquire and report a current leakage position.

~~7. The apparatus of claim 6, further comprising:~~

~~an acquiring module, configured to acquire a representative value of explosion possibility and explosion damage consequence data of each underground space surrounding the gas pipeline of all underground spaces surrounding the gas pipeline;~~

~~an assessment module, configured to determine an explosion risk assessment value of each underground space surrounding the gas pipeline, according to the representative value of explosion possibility and the explosion damage consequence data;~~

~~a setting module, configured to determine the underground space surrounding the gas pipeline having the explosion risk assessment value greater than a preset value as one of the plurality of underground spaces surrounding the gas pipeline to be monitored.~~

~~8. The apparatus of claim 6, wherein, the determining module is further configured to,~~

~~in response to the concentration of the flammable gas in the underground space surrounding the gas pipeline at a current moment and the concentration of the flammable gas in the underground space surrounding the gas pipeline at a previous moment being both greater than or equal to a first preset concentration, and a difference between the concentration of the flammable gas at the current moment and the concentration of the flammable gas at the previous moment being greater than zero, determine that the leakage of the gas pipeline is a slight leakage;~~

~~in response to the concentration of the flammable gas at the current moment being greater than or equal to the first preset concentration, and the difference between the concentration of the flammable gas at the current moment and the concentration of the flammable gas at the previous moment being greater than or equal to a second preset concentration, determine that the leakage of the gas pipeline is a serious leakage, wherein the second preset concentration is greater than the first preset concentration.~~

~~9~~5. The apparatus of claim ~~6~~4~~,~~ further comprising:

an identifying module, configured to identify a current dangerous area, according to the current leakage position and the concentration of the flammable gas;

an alarming module, configured to control a preset alarm device to alarm, according to the current dangerous area and a preset alarming mechanism.

~~10~~6. The apparatus of any of claims ~~6~~ 4 to ~~9~~5, further comprising:

a controlling module, configured to, control an opening degree of a corresponding gas pipeline valve, according to the leakage positio~~n.~~