Sept. 20, 1927. 1,642,675

B. GOLDMAN

SKYLIGHT

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Fig. 1.

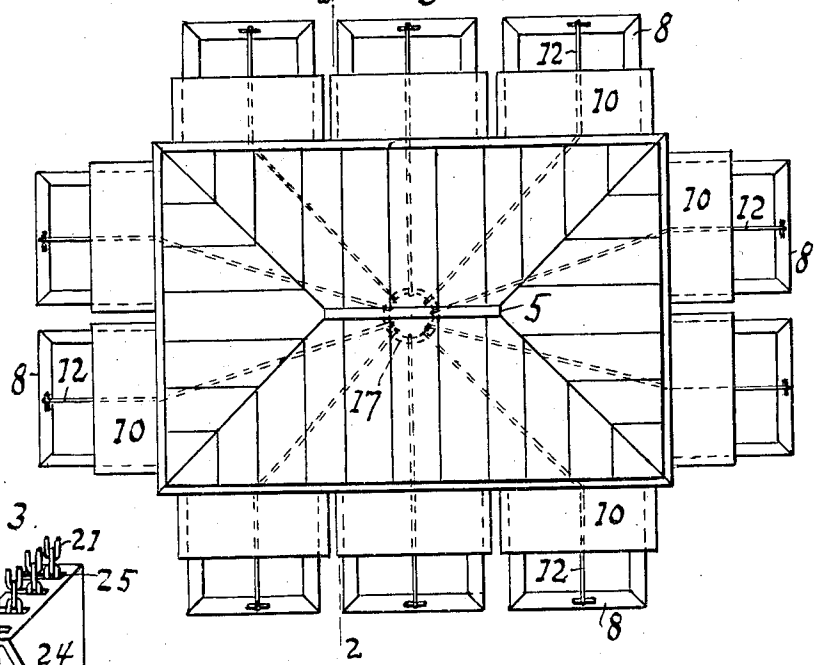


Fig. 3.

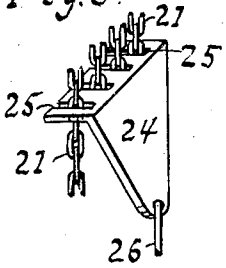


Fig. 2.

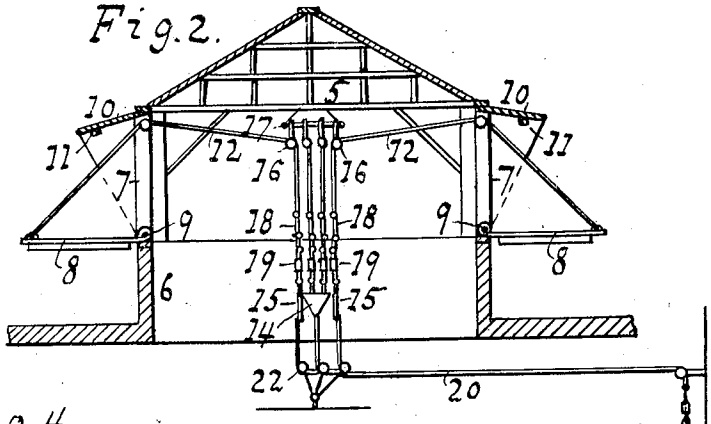
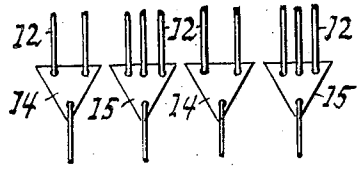
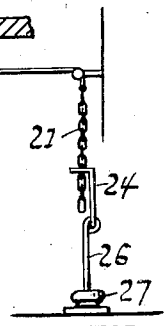


Fig. 4.





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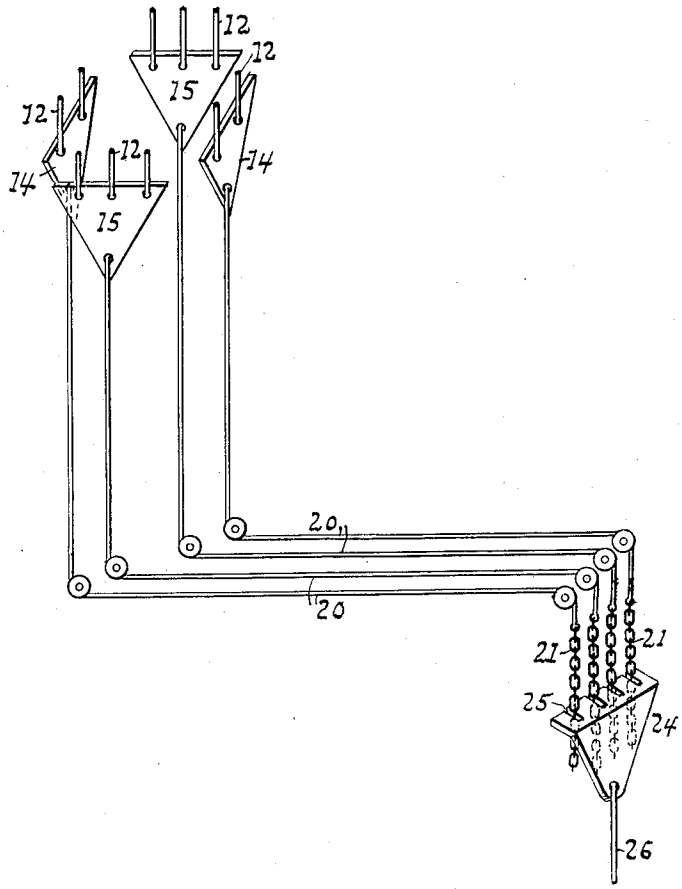
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Fig. 5.



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UNITED STATES PATENT OFFICE.

BARNEY GOLDMAN, OF NEW YORK, N. Y.

SKYLIGHT.

Application filed September 4, 1926. Serial No. 133,689.

This invention relates essentially to that type of skylight or ventilator which projects upwardly from a roof of a building and is equipped with a plurality of gravitating sashes adapted to automatically open when the temperature in the building reaches a certain degree.

An object of the invention is to provide means for adjusting the flexible connections for operating two or more of the sashes so as to compensate for expansion and contraction and to keep the sash tightly closed. In this arrangement, a slotted device anchored to the floor of the building is made to engage the ends of the individual flexible connections in order to lock the sashes.

Another object of the invention is to provide means for simultaneously operating two or more of the sashes arranged in each section independent of the other sections.

Another object of the invention is to provide a single manila rope at the lower end of the flexible connections whereby all the sashes can be opened by severing the rope when a fire occurs in the building or when not in a hurry by untying the rope from a support.

The invention resides more particularly in the novel combinations hereinafter described and claimed, reference being made to the accompanying drawing in which:

Fig. 1 represents a plan view of a skylight embodying this invention.

Fig. 2 is a vertical transverse section taken along the line 2 2 of the same.

Fig. 3 is a perspective view of the locking coupling.

Fig. 4 is a diagram of the link arrangement.

Fig. 5 is a diagrammatic view of the sash operating devices.

In the drawing is shown a skylight for ventilating the interior of a building consisting of a frame 5 projecting upwardly from a curb 6 and having openings 7 at the sides and ends of the frame. There are two openings shown in each end and three in each side of the frame, but the number can be varied depending on the size of the skylight.

Each opening is provided with a sash or cover 8 the lower portion of which is pivoted at 9 to the frame. A hood or off-set 10 projects from the top and sides of the opening so that when the sash is closed the hood sets around the sides and top of the sash thereby preventing any moisture from entering between the opening and the sash. The hood by means of a stop or jam 11 also limits the closing movement of the sash positioning it at an inclination so that it will automatically open to ventilate the building.

The means for operating the sashes include, a series of wire cables 12 and one end of each cable is secured to the upper inner portion of the sash. The other end of the cables are secured to a series of links in the form of triangular plates 14 and 15 suspended below the skylight. Each cable is guided over a pulley block 16 depending from a ring 17 fixed to the frame. Each cable has a fusible link 18 secured to it between the plate and the sash. When the heat below the skylight mounts above a certain degree the fuse will melt thus parting the cable from the plate and the sash swings downwardly to uncover the opening. The cable can be adjusted to tension it or take up the slack by means of a turnbuckle 19 located above the plate. In this device the cables of the four end sashes are connected to two triangular plates 14 and the six side sashes to the two plates 15 as indicated in Figure 4.

To the lower end of each plate is attached one end of a manila rope 20 while the other end of the rope is provided with a chain 21 secured to the rope. The rope is guided around pulleys 22 secured to the floor or wall of the building. A coupling 24 having slots 25 coacting with the chain is anchored to the floor in the lower part of the building by means of a rope 26 connected to the lower part of the coupling and having its end twisted around a cleat 27 secured to the floor. The rope 20 is made of manila so that it can be readily cut by any person in the upper part of the building.

The above way of connecting the chains to the coupling permits variable adjustment of the ropes 20 to take up the stretch and it forms a simple method of locking the individual chains to the coupling so as to prevent accidental opening of the sashes. When it is desired to close all the sashes the rope 26 is pulled thus actuating the coupling and its connections to swing the sashes upwardly and jam against the stop in the hood. By releasing one of the chains from its slot that particular group of sashes connected to the chain by means of the link can be operated independent of the others.

I claim:

1. In a skylight the combination with a

plurality of gravitating sashes each sash having an operating flexible connection, of a link connecting two or more of the flexible connections, a flexible connection having a chain at one end to adjust the connection and its other end secured to the link, and a slotted coupling made to engage the chain.

2. In a skylight the combination with a plurality of gravitating sashes each sash having an operating flexible connection, of a series of links each link connecting two or more of the flexible connections, a flexible rope connection leading from each of the links each connection having a chain at its end, a coupling having a number of slots each slot coacting with one of the chains to adjust the rope, and means for attaching the coupling to a support.

3. In a skylight the combination with a plurality of gravitating sashes each sash having an operating flexible connection, of a series of links each link connecting two or more of the flexible connections, a flexible rope connection leading from each of the links each connection having a chain at its end, a coupling having a number of slots each slot coacting with one of the chains to adjust the rope, and a rope secured to the coupling to anchor it to a support.

In testimony whereof I have hereunto set my hand.

BARNEY GOLDMAN.