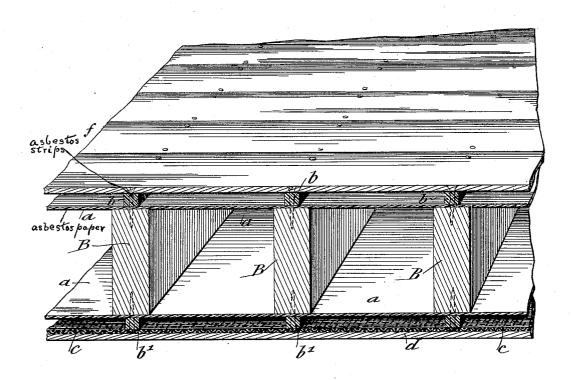
(No Model.)

J. E. HINTZE. FIREPROOF BUILDING.

No. 593,804.

Patented Nov. 16, 1897.



WHOESSES () Lord fackel Care Kable . INVENTOR
Sulius & Hintze
BY
ATTORNEYS.

UNITED STATES PATENT OFFICE.

JULIUS E. HINTZE, OF BROOKLYN, NEW YORK.

FIREPROOF BUILDING.

SPECIFICATION forming part of Letters Patent No. 593,804, dated November 16, 1897.

Application filed March 18, 1897. Serial No. 628, 155. (No model.)

To all whom it may concern:

Beit known that I, Julius E. Hintze, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Fireproof Buildings, of which the following is a specification.

My invention relates to fireproof buildings, and has for its object the production of an 10 economical and efficient construction for the floors, ceilings, and partitions of ordinary wooden-beam structures.

My invention consists of means for rendering wooden structures fire proof and comprises 15 a fireproof sheathing placed above and below the floor-joists and secured thereto by longitudinal fireproof strips, a flooring attached to the top strips, and a fireproof ceiling secured to the fireproof bottom strips.

My invention consists, further, of details of construction hereinafter described, and point-

ed out in the claims.

The accompanying drawing, which forms a part of my specification, represents a sectional perspective view of the floor and ceiling of my

improved fireproof wood structure.

Referring to the drawing, B B represent the ordinary wooden floor beams or joists of a building. These beams are covered above 30 and below by sheathing or a layer of fireproof material a, preferably asbestos paper. asbestos sheathing extends over the floor-space above and below said floor-beams. Fireproof strips b b', which are cut from thick 35 asbestos pasteboard, are nailed longitudi-nally along the beams above and below and serve to secure the said sheathing to the beams. An ordinary flooring f, constructed of the usual floor-planks, is supported on the 40 strips b, thus leaving an open space between the said flooring and the sheathing. To the lower strips b' are attached sheet-metal lathing c, and a suitable plaster d is laid therein, forming an ordinary ceiling. The metal lath-45 ing may be replaced by a sheathing of wiregauze, which may be nailed to the asbestos strips b' and covered with suitable plaster, forming a ceiling. Thin metal sheets may also be substituted for the lathing or gauze or 50 terra-cotta or other fireproof plates or slabs be used in place of the lathing and plaster. An open space is also provided between the sheathing and the metal lathing by the strips b'.

It is obvious that the above-described struc- 55ture can be applied to the partitions and walls as well as to the floors of a building, thus ren-

dering the entire building fireproof.

My improved means for rendering structures fireproof may be applied to buildings 60 already completed as well as to those in the course of erection, it being only necessary in the former case to remove the old flooring and ceiling. It will be noted from the above description that the floor beams or joists are pro- 65 tected on both sides by the fireproof sheathing. The open spaces above and below said joists act as an additional protection.

Having thus described my invention, I claim as new and desire to secure by Letters 70

Patent-

1. In a fireproof structure, the combination, with the wooden floor-joists, of a fireproof sheathing attached to the upper and lower sides thereof, and longitudinal fireproof strips 75 secured to the upper and lower sides of said joists and serving as a means by which the floor and ceiling are attached to said joists, substantially as set forth.

2. In a fireproof structure, the combination 80 with the floor-beams of a fireproof sheathing applied to the upper and lower sides thereof, fireproof strips extending longitudinally along the upper and lower surfaces of said floor-beams, a flooring secured to the upper 85 strips, a fireproof ceiling secured to the lower strips and air-spaces formed above and below said floor-beams, substantially as set forth.

3. In a fireproof structure, the combination, with the wooden floor-joists, of an asbestos 90 sheathing attached to the upper and lower sides thereof, longitudinal asbestos strips secured to the upper and lower sides of said joists, a flooring attached to the upper strips, and metal lathing secured to the lower strips 95 and adapted to receive a plaster, substantially as set forth.

4. In a fireproof structure, the combination, with the floor-beams, of a fireproof sheathing applied to the lower side of said floor- 100

593,804 2

beams, fireproof strips extending longitudinally along said floor-beams, and serving to secure said sheathing thereto, and a fireproof ceiling secured to said strips and forming an air-space between said sheathing and ceiling, substantially as set forth.

In testimony that I claim the foregoing as