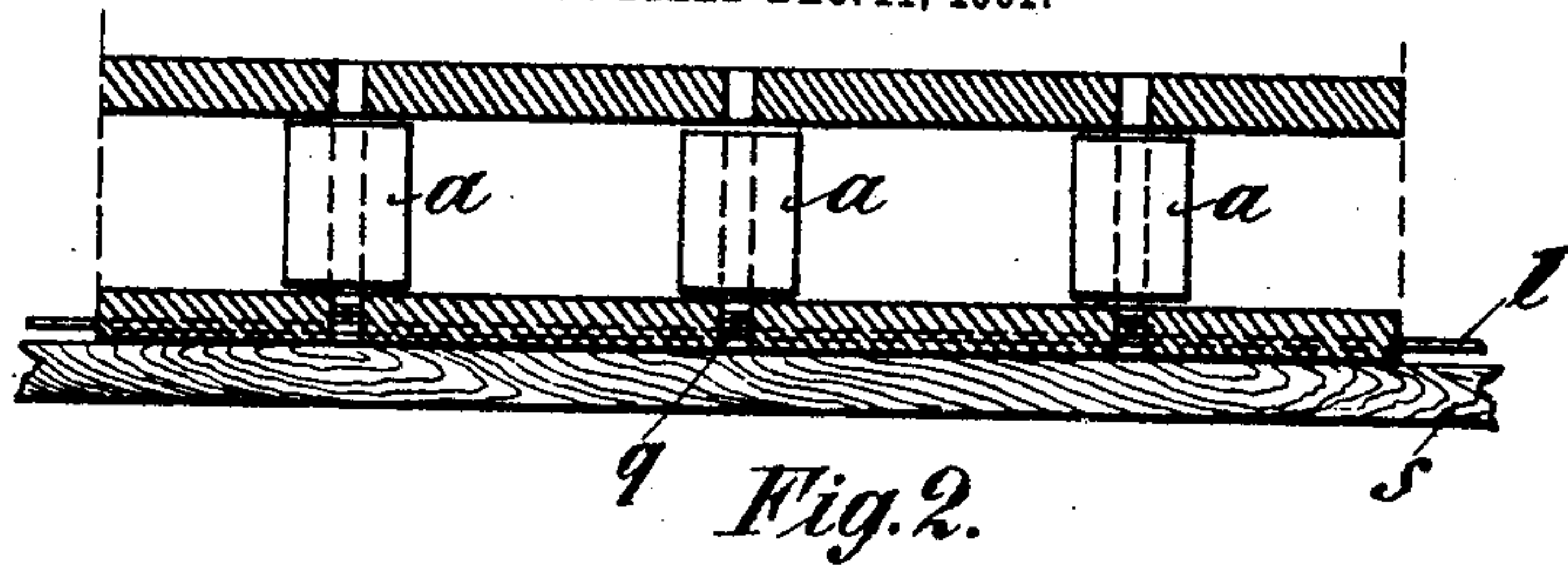


No. 803,559.

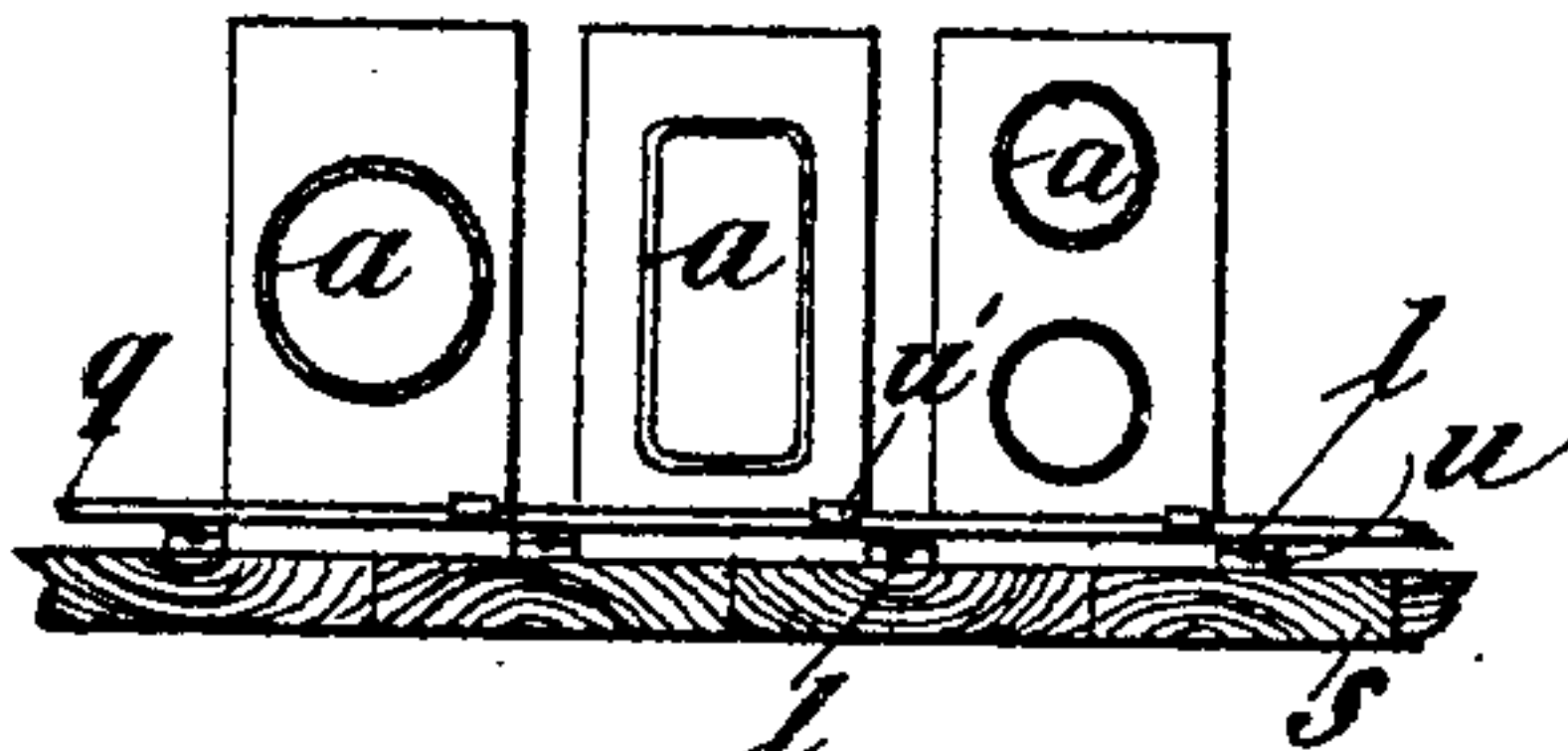
PATENTED NOV. 7, 1905.

O. CRACOANU.  
CONSTRUCTION OF FIREPROOF BRICK FLOORS.  
APPLICATION FILED DEC. 11, 1901.

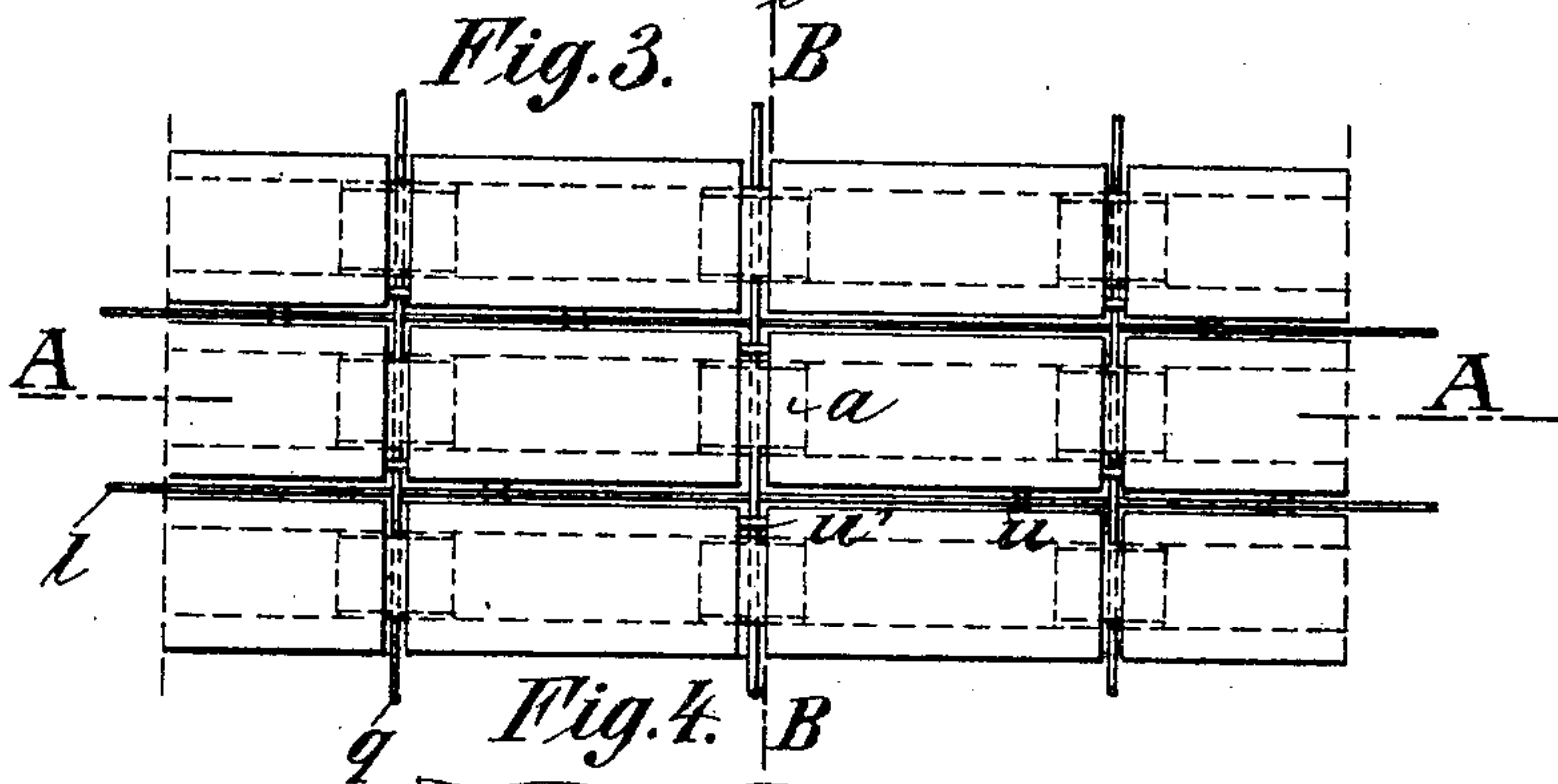
*Fig. 1.*



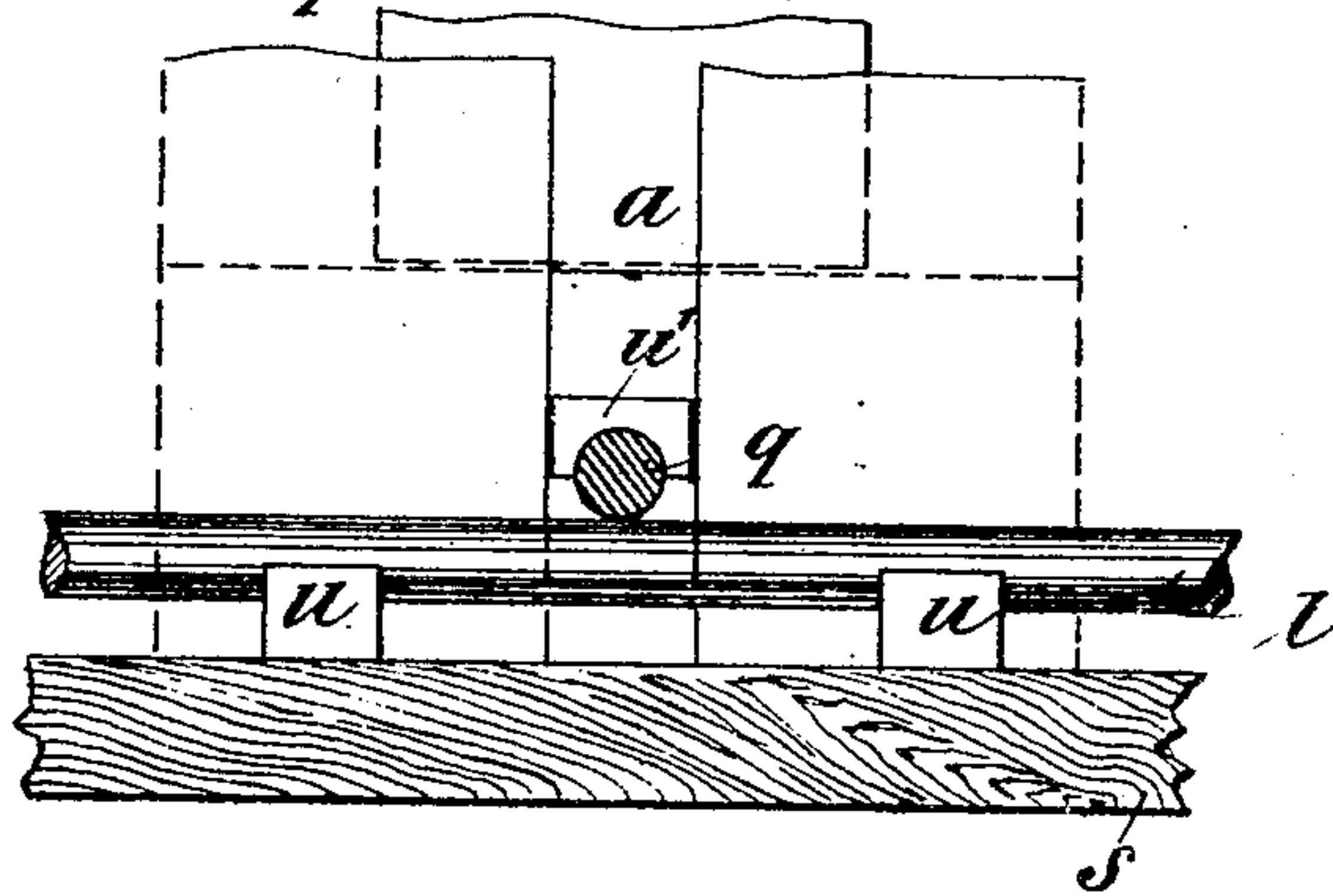
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



*Witnesses:*

*Julius H. Green*  
*Richard H. Green*

*Inventor:*

*Otiliu Cracovanu*

# UNITED STATES PATENT OFFICE.

OVIDIUS CRACOANU, OF HALLE-ON-THE-SAALE, GERMANY, ASSIGNOR TO  
RICHARD FABER, OF FERMERSLEBEN, NEAR MAGDEBURG, GERMANY.

## CONSTRUCTION OF FIREPROOF BRICK FLOORS.

No. 803,559.

Specification of Letters Patent.

Patented Nov. 7, 1905.

Application filed December 11, 1901. Serial No. 85,507.

*To all whom it may concern:*

Be it known that I, OVIDIUS CRACOANU, graduated civil engineer, a subject of the King of Roumania, residing at 23 Meckelstrasse, in the city of Halle-on-the-Saale, in the German Empire, have invented a certain new and useful Improvement in the Construction of Fireproof Brick Floors, of which the following is a specification.

10 The subject of this invention is a method of constructing fireproof ceilings from hollow bricks and provided with an embedded iron structure and from any kind of hollow bricks by pouring a binding material into the joints, 5 so that all the parts of the structure combine to form one uniform whole, these ceilings being capable of supporting considerably greater loads than beam floors or ceilings, combined with a comparatively diminished height of the structure and a great reduction in the quantity of iron used. 15

As will be seen from the drawings, in which Figure 1 represents a longitudinal section; Fig. 2, a transverse section, and Fig. 3 a plan view, the method consists in shutting off the 25 cavities of the bricks from the cross-joints of the floor or ceiling by small pipes *a* or plugs of suitable shape and of any kind of material in such a manner that the binding agent, which

is to be poured last of all into the broad joints 30 of the floor or ceiling, will fill up the same completely without entering the cavities. In order to completely envelop the iron structure *l* and *q* also with the binding agent, the said iron structure is separated from the tempo- 35 rary pattern timber lining by inserted pieces *u* and insulating-pieces *u'* in form of small blocks or rings, these blocks or rings being also used to separate the iron structure from the adjoining bricks, so as to give ample space 40 to the binding agent which is to be poured in to allow it to flow under the iron also and to envelop the same completely.

I claim—

Ceilings or floors composed of hollow bricks 45 connected longitudinally by sleeves fitted into the hollows of the bricks and having wires stretched longitudinally and transversely across the ceilings or floors, said wires being embedded in the binding-mortar at or near the 50 lower edges of the bricks, substantially as described.

In witness whereof I have hereunto set my hand in presence of two witnesses.

OVIDIUS CRACOANU.

Witnesses:

JULIUS HOREM,  
RUDOLPH FRICKE.