

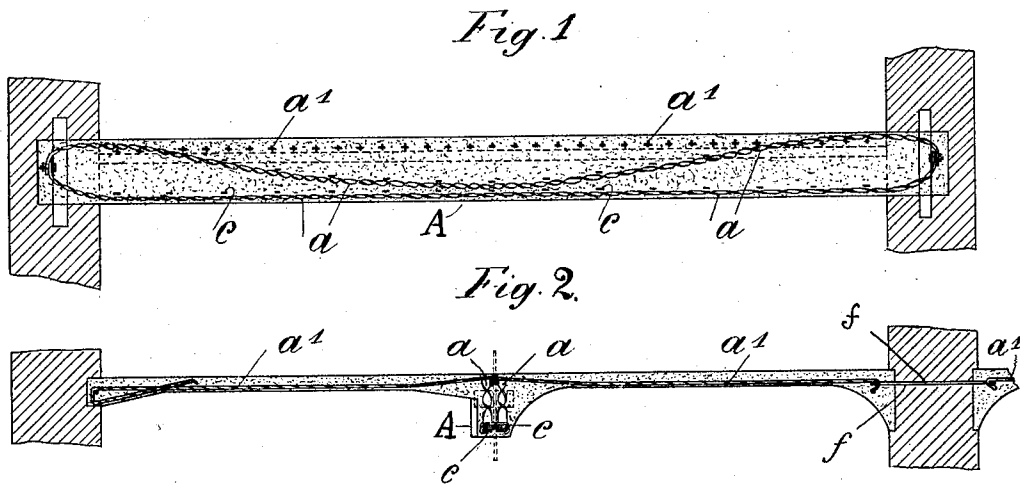
No. 763,513.

PATENTED JUNE 28, 1904.

H. SCHMIDT.
FIREPROOF CEILING.

APPLICATION FILED AUG. 18, 1903.

NO MODEL.



Witnesses:
Arthur Geupel.
Fred. W. Wright

Inventor:
Heinrich Schmidt
by Stauffer & Wines Att'y.

UNITED STATES PATENT OFFICE.

HEINRICH SCHMIDT, OF HANOVER, GERMANY.

FIREPROOF CEILING.

SPECIFICATION forming part of Letters Patent No. 763,513, dated June 28, 1904.

Application filed August 18, 1903. Serial No. 169,872. (No model.)

To all whom it may concern:

Be it known that I, HEINRICH SCHMIDT, a citizen of Germany, residing at Hanover, Germany, have invented certain new and useful Improvements in Fireproof Ceilings, of which the following is a specification.

This invention relates to an improved fireproof ceiling of superior strength and composed of concrete floor-beams with embedded spirally-twisted iron bars.

In the accompanying drawings, Figure 1 is a longitudinal section through my improved fireproof ceiling, and Fig. 2 a cross-section thereof.

The letter A represents a concrete floor-beam depending from a concrete flooring and provided with inclosed longitudinal spirally-twisted flat iron bars *a*, which constitute cores. These cores are loop-shaped, two of the loops being arranged side by side within each beam. At the ends the bars are anchored to the walls in suitable manner. The two loops are connected to each other by cleats *c*, that hold them in position and at the proper distance from one another. The ce-

ment flooring between the beams is reinforced by the transverse spiral bars *a'*, that are embedded in the concrete and cross the cores, Fig. 2. The bars *a'* are secured at their ends to supports in suitable manner. Thus at the left end of Fig. 2 the bar *a'* is shown to be looped around its support, while at the right end of Fig. 2 it is shown to engage an anchor *f* embedded in the wall.

What I claim is—

A fireproof ceiling composed of a concrete flooring having depending concrete floor-beams, a pair of looped spirally-twisted longitudinal bars within each of said beams, cleats connecting said bars, spirally-twisted transverse bars within the flooring that cross the longitudinal bars, and an anchorage for the longitudinal bars, substantially as specified.

Signed by me at Hanover, Germany, this 6th day of August, 1903.

HEINRICH SCHMIDT.

Witnesses:

H. HALL HALL,
LEONORE RASCH.