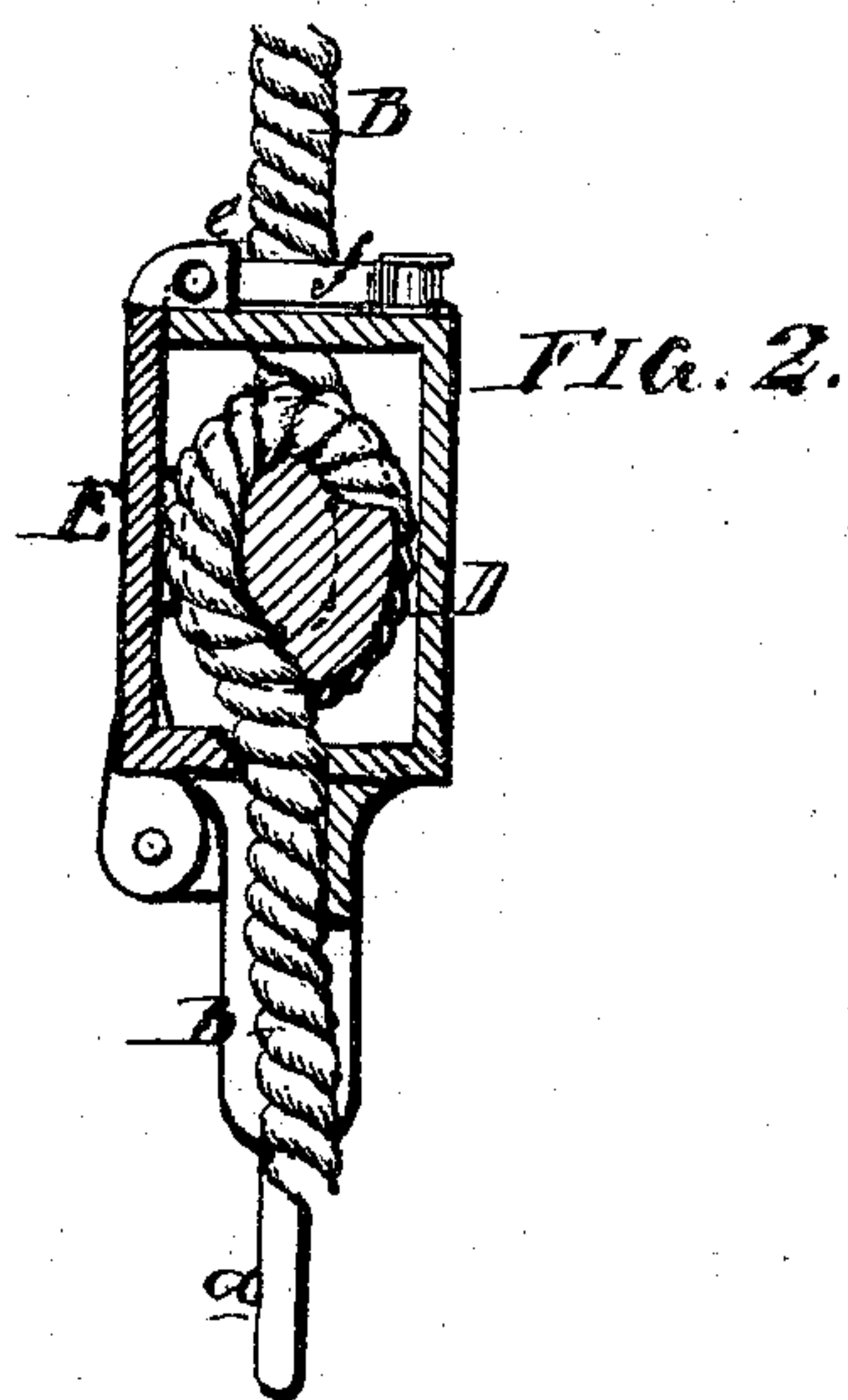
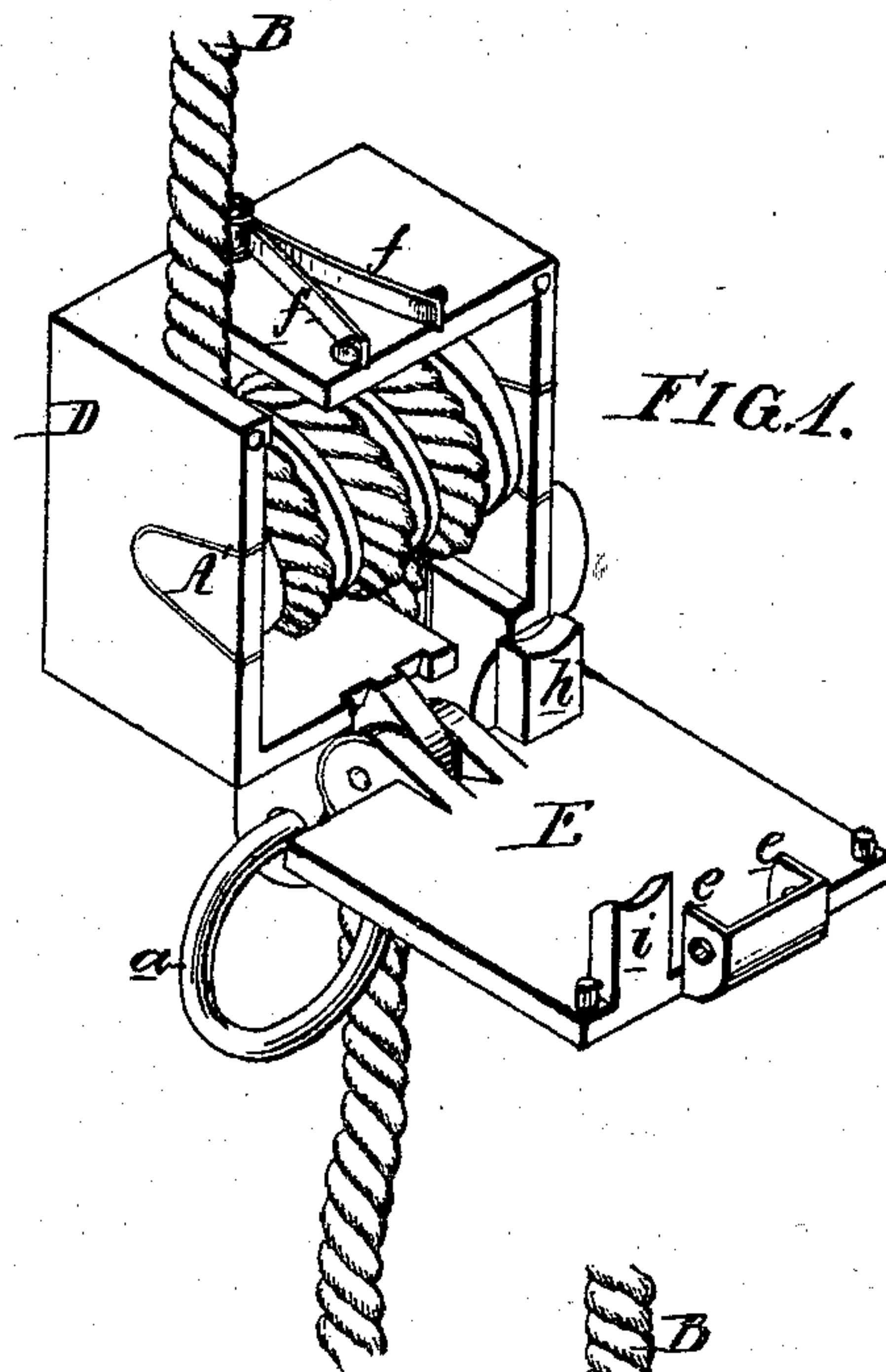


S. MURSET & E. ZUBERBUHLER.

Fire-Escapes.

No. 144,122.

Patented Oct. 28, 1873.



Witnesses, John K. Rupertus  
Thomas M. Hoain

S. Murset and  
E. Zuberbuhler  
by their Attys.  
Hudson and Son.

# UNITED STATES PATENT OFFICE.

SAMUEL MURSET AND EMIL ZUBERBUHLER, OF PHILADELPHIA, PA.

## IMPROVEMENT IN FIRE-ESCAPES.

Specification forming part of Letters Patent No. **144,122**, dated October 28, 1873; application filed June 7, 1873.

*To all whom it may concern:*

Be it known that we, SAMUEL MURSET and EMIL ZUBERBUHLER, both of the city and county of Philadelphia, State of Pennsylvania, have invented an Improved Fire-Escape Apparatus, of which the following is a specification:

The object of our invention is to permit a person escaping from a burning building by a suspended rope to easily regulate the speed of his descent; and this object we attain by means of a block, A', represented in perspective and in section Figures 1 and 2 of the drawing, having a spiral groove for receiving a rope, B, and so fitted into a box, D, that it can be readily withdrawn therefrom. The rope passes through the top of the box, round the spiral groove in the block, and through the bottom of the box, which is furnished with a lid having projections *e e*, adapted to spring-catches *f f* on the top, the lid being released, as shown in Fig. 1, when the spring-catches are moved toward each other. This lid is also furnished with

projections *h* and *i*, which, fitting recesses in the bottom and top of the box, restrict these recesses to a size sufficient to permit the rope to pass freely. This allows of the ready connection of the box to and its disconnection from the rope. When it has to be detached, for instance, all that is necessary is to open the lid of the box, withdraw the block A' from its bearings in the opposite ends of the box, and uncoil the rope from the block which can be re-introduced into the box at pleasure.

I claim—

The combination, substantially as described, of the detachable grooved block A' with the box D and its lid E.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

SAMUEL MURSET.

EMIL ZUBERBUHLER.

Witnesses:

WM. A. STEEL,

HUBERT HOWSON.