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SAFETY BAR FOR BANK VAULTS, PRISONS, &c.

APPLICATION FILED JULY 16, 1912.

1,094,043. Patented Apr. 21, 1914.

Fig:1.

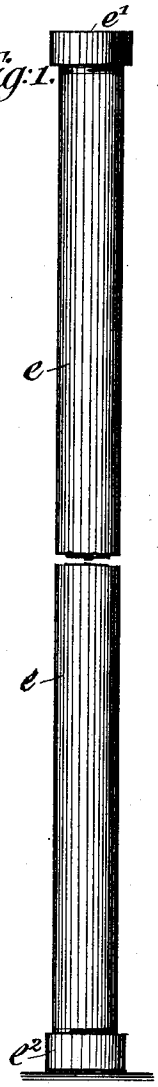


Fig:2.

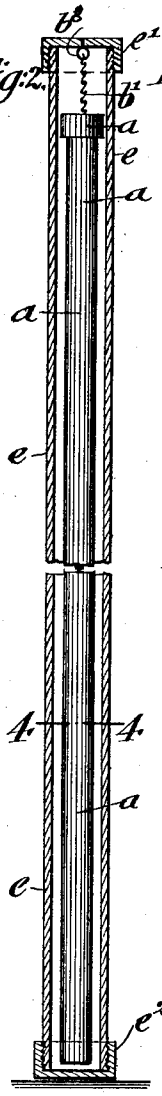


Fig:3.

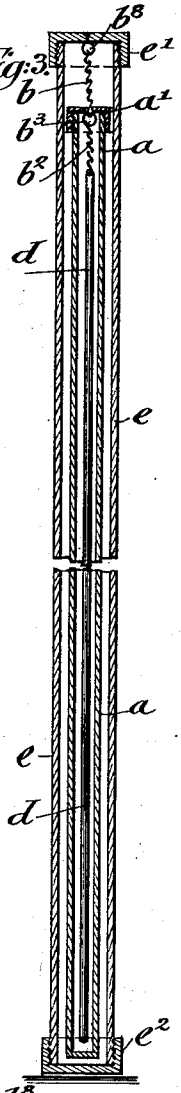


Fig:5.

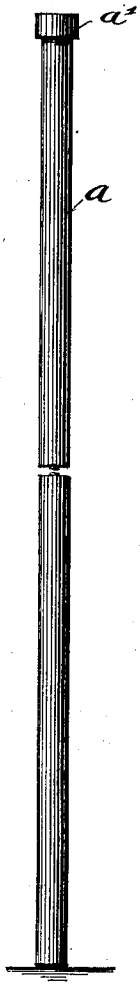


Fig:6.

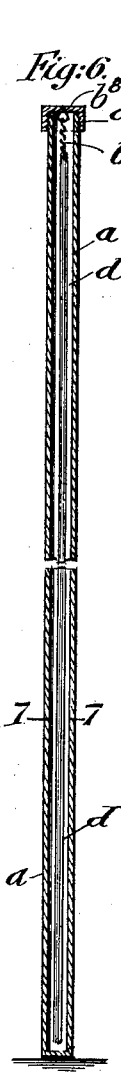


Fig:4.

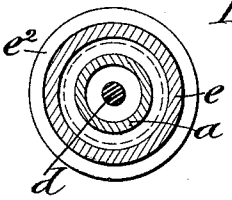


Fig:8.

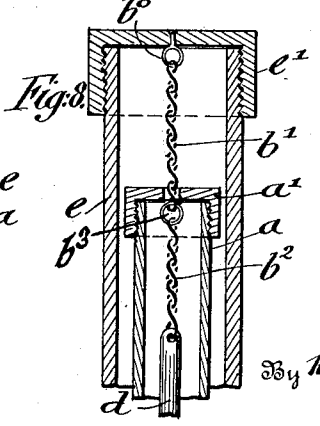
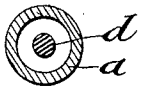


Fig:7.



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NICHOLAS WITSCH, OF NEW YORK, N. Y.; BERTHA M. WITSCH ADMINISTRATRIX OF ESTATE OF SAID NICHOLAS WITSCH, DECEASED.

SAFETY-BAR FOR BANK-VAULTS, PRISONS, &c.

1,094,043. Specification of Letters Patent. **Patented Apr. 21, 1914.**

Application filed July 16, 1912. Serial No. 709,727.

To all whom it may concern:

Be it known that I, NICHOLAS WITSCH, a citizen of the United States of America, residing in New York, in the borough of Brooklyn, county of Kings, and State of New York, have invented certain new and useful Improvements in Safety-Bars for Bank-Vaults, Prisons, &c., of which the following is a specification.

This invention relates to an improved safety-bar which is to be used for window-guards, doors, gates, transoms, passageways, etc., for banks, vaults, warehouses, stores, prisons and asylums, and wherever additional safety for the protection of valuables, merchandise, persons in confinement, etc., is to be secured.

For the general purpose referred to the invention consists of a safety-bar which comprises an exterior fixed metal tube, an interior additional metal tube, and a pendulous rod suspended in the interior tube. Both the interior tube and the pendulous rod are suspended from the top of the cap of the exterior tube by means of a chain and links which passes through an opening in the cap of the interior tube to the upper end of the pendulous rod, so that both the interior tube and rod will swing freely whenever they are tampered with by sawing or cutting through the exterior tube and prevent cutting or sawing of the same.

In the accompanying drawing, Figure 1 represents a side-elevation of my improved safety-bar for vaults, etc., Fig. 2 is a vertical central section through the exterior tube, showing the interior tube in elevation, Fig. 3 is a vertical section through the outer and inner tubes, Fig. 4 is a horizontal section on line 4—4, Fig. 2, drawn on a larger scale, Fig. 5 is a side-elevation of the improved safety-bar, showing the same in simplified form, Fig. 6 is a vertical central section of the same, Fig. 7 is a horizontal section on line 7—7, Fig. 6, and Fig. 8 is a detail section on a larger scale, showing the connection of the exterior tube with the interior tube and pendulous rod.

Similar letters of reference indicate corresponding parts throughout the different figures of the drawing.

Referring to the drawing, e represents the exterior tube, which is closed at the upper and lower ends by means of screw-caps e^1, e^2, and a is an interior tube which is suspended within the exterior tube by means of a short copper chain b^1 which passes through the cap a^1 at the upper end of the interior tube a and is connected in any suitable manner, as by an eye b^8, with the cap e^1 of the exterior tube e. An enlarged link b^3 of ring-shape or other suitable form, larger than the opening in the cap a^1, secures the chain to the cap. The interior and exterior tubes a, e, are preferably made of steel or other highly resistible metal, and the ends of the exterior tube are set into the masonry of the building with which the safety-bar is to be used, or in any other manner required for its special purpose.

At the interior of the inner tube a is suspended from the chain b^1 by means of a link or links b^2 a steel or other rod d in such a manner that the same is free to swing in the inner tube a. The outer tube may, however, be omitted, in which case the rod is suspended by an eye b^8 from the cap a^1 of the tube a. Thus the inner tube a with its interior pendulous rod d forms the simplest form of safety-bar and is specially adapted for use, without the exterior tube, for openings of windows in prisons, vaults, warehouses and the like; while the safety-bar provided with the additional exterior tube is specially adapted wherever heavier bars are desired, such as for supporting-columns in safe deposit vaults, bank-vaults and the like.

When an attempt is made to cut or saw through the exterior tube, the sawing can only be partially accomplished as the saw or other tool will then come in contact with the swinging interior tube on which the tool cannot catch or find any hold, on account of its turning and oscillating movements, which will naturally follow any attack on the same, so that a reliable safety-bar for the purposes described is obtained. In a similar manner when only the interior tube and pendulous rod in the same are used, the latter prevents the cutting through or tampering with said tube.

It is obvious that in place of the supporting-chains, other supporting means may be employed, such for example as a helical spring or springs, and that other changes may be made in the construction without departing from the spirit of the invention.

I claim:

1. A safety-bar for bank vaults, prisons, etc., comprising an exterior stationary tube,

an interior tube suspended within the same, and a pendulous laterally-swinging rod suspended in the interior tube.

2. A safety-bar for bank vaults, prisons, etc., comprising an exterior stationary main-tube, a tube suspended within the same, a pendulous laterally-swinging rod within the interior tube, and means for suspending the interior tube and pendulous rod in said exterior tube.

3. A safety-bar for bank vaults, prisons, etc., comprising a tube, and an interior pendulous laterally-swinging rod suspended within said tube.

4. A safety-bar for bank vaults, prisons, etc., comprising a tube, an interior pendulous laterally-swinging rod within the same, a cap for the tube, and means for suspending said rod from said cap.

5. A safety-bar for bank vaults, prisons, etc., comprising an exterior stationary tube, an interior tube within the same, a pendulous rod within the interior tube, a cap for the interior tube, a cap for the exterior tube, and a chain connecting the pendulous rod with the cap of the interior tube and with the cap of the exterior tube.

In testimony that I claim the foregoing as my invention, I have signed my name in presence of two subscribing witnesses.

NICHOLAS WITSCH.

Witnesses:
JOHN MURTAGH,
M. A. DILLON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."