

P. J. PAULY.  
Jail Cells.

No. 197,887.

Patented Dec. 4, 1877.

FIG. 1.

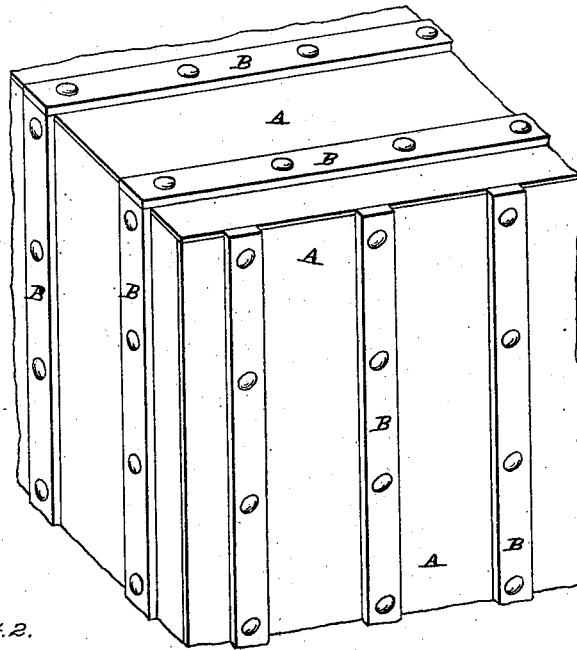
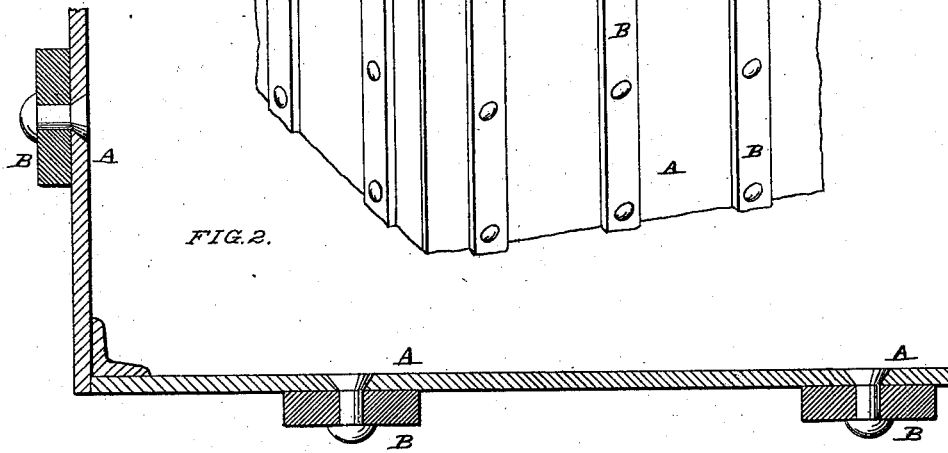


FIG. 2.



ATTEST:

*Robert Burns.*

*Le Glond Purdett.*

INVENTOR:

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*per J. Knight Bros*

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# UNITED STATES PATENT OFFICE.

PETER J. PAULY, OF ST. LOUIS, MISSOURI.

## IMPROVEMENT IN JAIL-CELLS.

Specification forming part of Letters Patent No. **197,887**, dated December 4, 1877; application filed February 28, 1877.

*To all whom it may concern:*

Be it known that I, PETER J. PAULY, of St. Louis, in the county of St. Louis and State of Missouri, have invented certain Improvements in Jail-Cells, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings.

My improvement consists in securing parallel bars of steel at intervals over part or the whole of the metallic surface of the walls, roof, and floor of a jail-cell, in order to prevent the prisoner from cutting out a piece of the plate of sufficient size to permit his escape.

The steel bars may be tempered throughout, but it is preferable to use bars similar to those described in my Patent No. 178,460, issued June 6, 1876, for improvement in the manufacture of jail-bars, the edges of which are hardened, so as to be file and saw proof, while the center is annealed or left soft, so as to prevent fracture by a blow.

In the drawings, Figure 1 is a perspective view of one corner of a jail, showing my improvement. Fig. 2 is a detail section.

The walls A and roof of the jail-cells are made of plate metal, in the usual manner. B are hardened steel bars, firmly attached, by rivets or other means, to the surface of the walls. The top or roof and floor are protected in like manner, where necessary.

The steel bars B are arranged parallel with each other, and placed about six inches (more or less) apart, so that in case the whole of the plate A between two bars were cut away the

aperture thus formed would be too narrow to permit the passage of the prisoner.

In constructing my improved jail-cells, ordinary hardened steel bars may be used; but it is preferable to use bars hardened only at their edges and soft between the edges, so that the edges will resist the action of any steel tool, and the center will give such support to the hardened edges as will prevent fracture by a blow.

The re-enforcing bars B may be placed either inside or outside of the plate A, and on the walls may be either vertical or horizontal. I prefer to place them only on the outside, as shown, with the inner heads of the rivets countersunk into the plate. When the wall is common to two cells, the heads are preferably countersunk at both ends.

I am aware that it is not new to locate joint-strips of chilled cast-iron over the meeting edges of iron plates of jail-cells, as shown in Patent No. 26,500, of E. Jacobs, and therefore I do not claim such mode of securing said edges.

I claim as my invention—

The metallic jail-cell herein described, bound with hardened steel bars B, arranged at distances so close together as to prevent the passage of a prisoner or prisoners, and constructed substantially as specified.

PETER J. PAULY.

Witnesses:

SAML. KNIGHT,  
ROBERT BURNS.

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