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Schwing et al.

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[54] **LOCKING CANE BOLT FOR GATES AND THE LIKE**

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[52] **U.S. Cl.** **70/128;** 70/DIG. 79; 292/4

[51] **Int. Cl.**[2] **E05B 59/00;** E05C 5/00

[58] **Field of Search** ..... 70/128, 262, 265, DIG. 79; 292/4, 57, 63, 67; 312/216; 49/366

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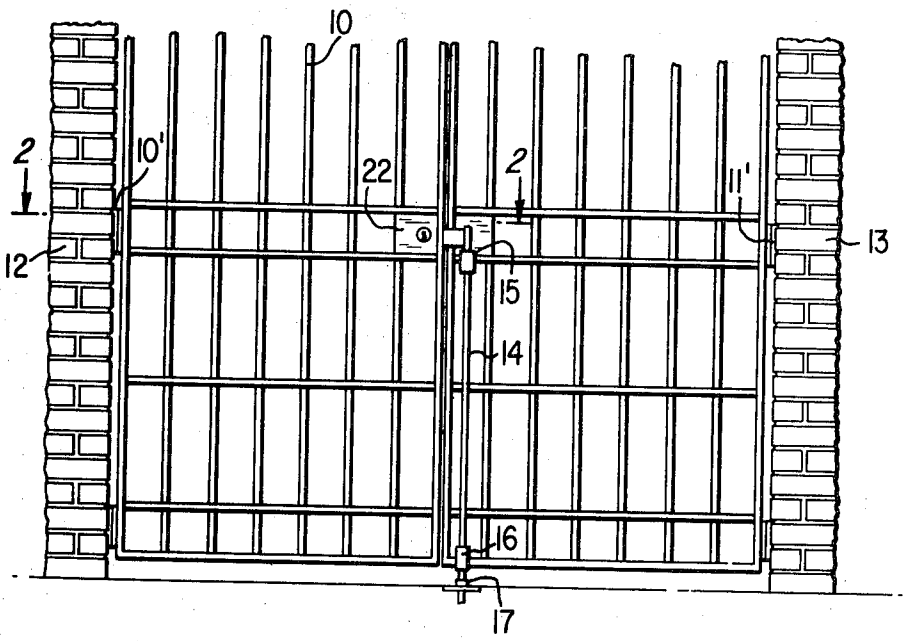
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[57] **ABSTRACT**

A gate lock for locking a pair of cooperating gates together is disclosed. A first gate carries a vertically slidable and rotatable cane bolt having an L-shaped hasp affixed to its upper portion. The hasp is rotatable to extend between the closed gates and has an aperture for passage therethrough of a long throw bolt of a conventional cylinder lock carried on the second gate. In the closed locked position, the long throw bolt extends from the second gate, through the hasp's aperture and into an aperture in the first gate.

2 Claims, 3 Drawing Figures



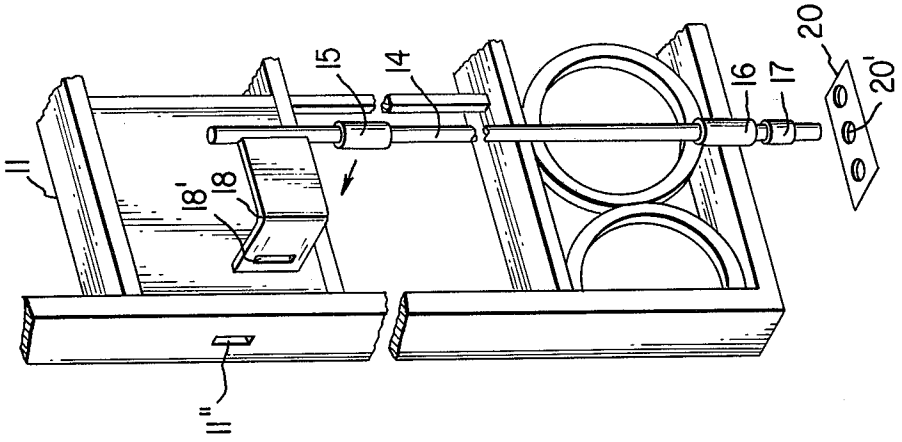


FIG. 3

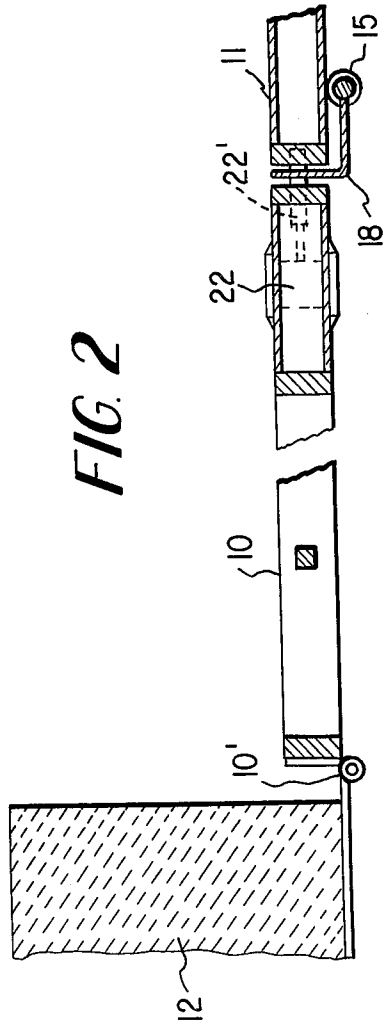


FIG. 2

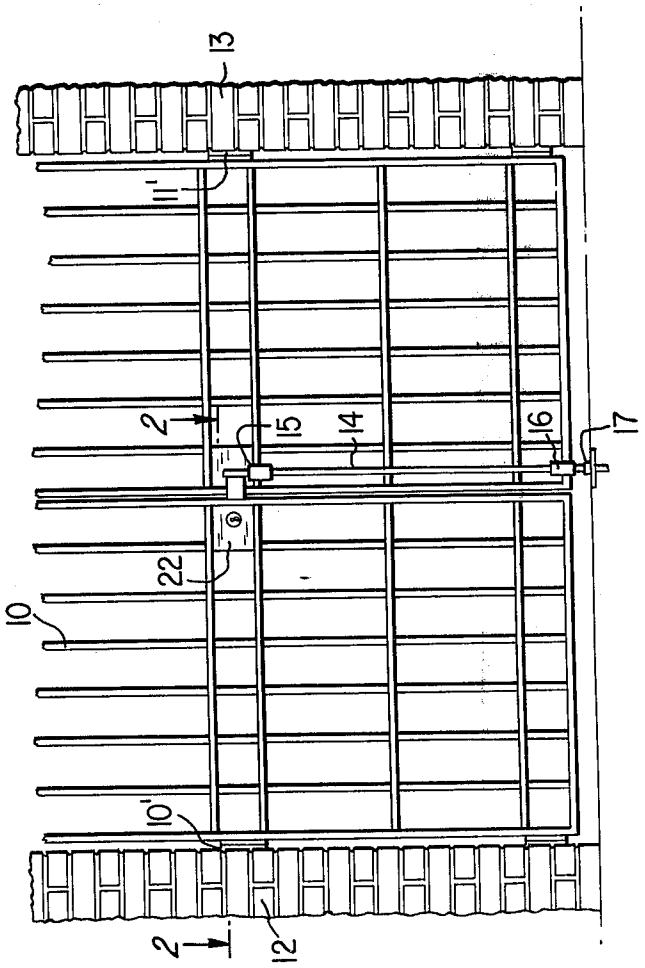


FIG. 1

LOCKING CANE BOLT FOR GATES AND THE LIKE

FIELD OF THE INVENTION

A combined vertically slidable to locked and unlocked positions cane bolt for a gate is provided with an integral apertured hasp portion that can be rotated with the cane bolt to receive therethrough a throw bolt of a cylinder lock. This can be used with one or two gates or the like.

SUMMARY OF THE INVENTION

A pair of hinged gates are so mounted that their adjacent edges, when the gates are closed, permit entrance therebetween of a hasp. An elongated rod or cane bolt which is vertically slidable and rotatable is mounted on a first of the gates adjacent the gate's inner closing edge. The lower end of the cane bolt is slidably received in an aperture in a floor plate mounted on the ground or floor surface below the first gate when the gate is in its closed position. One leg of an L-shaped hasp is welded to an upper portion of the cane bolt and extends transversely thereto. The other leg of the hasp has an aperture therethrough. A cylinder lock having a long throw bolt is mounted on a second cooperating gate adjacent its closing edge. When the gates are closed, the cane bolt's lower end is received in the apertured floor plate and the cane bolt is then rotated so that the aperture in the hasp lines up with the throw bolt carried by the second gate and an apperture in the edge of the first gate. When the throw bolt is received in the apertures in the hasp and in the first gate, the gates are locked in their closed position.

DESCRIPTION OF THE DRAWING

For a more complete understanding of the invention reference is had in the drawing in which;

FIG. **1** is an elevation view of two gates one of which has the slidable and rotatable cane bolt and hasp and the other a cylinder lock with long throw bolt;

FIG. **2** is a fragmentary section along line **2—2** of FIG. **1** on an enlarged scale; and

FIG. **3** is an exploded view on an enlarged scale of a portion of the edge of a gate showing the cane bolt with its hasp, its mounting sleeves and an apertured floor plate.

DESCRIPTION OF A PREFERRED EMBODIMENT

Throughout the description like reference numbers refer to like or similar parts.

A pair of wrought iron gates **10** and **11** are mounted by hinges **10'** and **11'** on respective walls **12** and **13** for swinging movement to open and closed positions.

A conventional cylinder lock **22** having a long throw bolt is mounted on gate **10** so that the long throw bolt **22'** is received in a slot or aperture **11''** in the edge of gate **11.**

An elongated cane bolt **14** extends vertically and is slidably and rotatably mounted in spaced apart sleeves **15** and **16** welded to the gate **11.** A sleeve **17** is fixedly attached to the cane bolt **14** in spaced relation to its bottom end. The bottom end of the cane bolt is received in an apertured floor plate **20** and the fixed

sleeve **17** limits the downward movement of the cane bolt. At the upper end of the cane bolt **14** and above the mounting sleeve **15** there is welded one leg of an L-shaped hasp **18.** The other leg of the hasp has an aperture **18'** to receive therethrough the throw bolt **22'** of the cylinder lock **22.** The end of the throw bolt that passes through the hasp aperture **18'** and seats in the recess or aperture **11''** in the adjacent edge of gate **11.**

The gates in FIG. **1** are viewed from the inside. In operation in the unlocked position, cane bolt **14** is free to be rotated and to move vertically in the pipe sleeves **15** and **16.** When the cane bolt **14** is dropped into the hole **20'** in the floor plate **20** it renders gate **11** of the pair of gates inactive. The bent plate hasp **18** is welded adjacent the top portion of the cane bolt **14** so that the slotted hole **18'** lines up with the long throw bolt **22'** when hasp **18** is rotated into position. When the cylinder lock **22** is locked, the long throw bolt **22'** passes through the aperture **18'** in the hasp into the slot **11''** in the gate **11** making it impossible to release the cane bolt **14.** Both gates **10** and **11** are securely locked but can be opened by key from either side.

We claim as our invention:

1. A gate lock for locking together a pair of hinged, swinging gates, each of said gates being hinged at an outer edge portion and having inner edges adjacent each other when said gates are in a closed position, said gate lock comprising in combination:

an elongated vertically slidable and rotatable cane bolt mounted on a first of said gates adjacent said first gate's inner edge;

an apertured floor plate for receiving a lower end of said cane bolt when said first gate is in its closed position;

an L-shaped hasp plate having first and second leg portions and being affixed to an upper portion of said cane bolt and rotatable therewith, said first leg of said hasp plate being secured to and extending transversely to said cane bolt, said second leg of said L-shaped hasp plate being positionable between said closed gates and having an aperture therethrough;

a cylinder lock secured to a second of said gates adjacent said second gate's inner edge, and having a long throw bolt, said throw bolt being extendable through said aperture in said hasp plate when said second leg of said hasp plate is positioned between said gates in their closed position; and,

an aperture in said inner edge of said first gate, said throw bolt being extendable through said hasp plate aperture and into said aperture in said inner edge of said first gate to lock said gates in their closed position.

2. The gate lock of claim **1** wherein said cane bolt is slidably and rotatably received in a pair of spaced apart pipe sleeves secured to said first gate adjacent said first gate's inner edge and further wherein said cane bolt has a pipe sleeve fixedly attached above its lower end whereby the depth of insertion of said cane bolt into said apertured floor plate is limited thereby aligning said aperture of said hasp plate with said long throw bolt and said aperture in said first gate.

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