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## Improved Stall Floor for Horses

In the construction of stables, there has been a rreat need for some plan whereby the floors may be rendered impervious to the urine of animals, and at the same time admit of its being rapidly and thoroughly conducted away, so that its decomposition will not load the air with foul gases.
The construction adopted in the device herewith illustrated, seems to make provision for all the necessities of the case. 'The animals, instead of standing upon a continuous flooring, stand upon a wooden grating as shown at B, so constructed that any one of the bars may be taken out independently of the others, and so arranged that by means of a cord and pulley, the whole grating may be lifted, like a trap door
hinged at one side, when it is desired to get access to the watertight ters A, underneatl the grating.
This construction admits of tiers of stalls being placed on one floor above stalls being placed on one for, as shown in the engraving, another, as shown in the engraving,
without any inconvenience arising from dripping. The form of the gratings is shown at B. The ends of the bars are slotted, as shown at C, a rod passing through them all in common. This allows any one to be withdrawn when the opposite end of the grating is raised. This is a convenience in replacing such as become worn sooner than others, as will be the case in the middle of the grating. The gutters A are made with a lining of cement on the lower story; but under the upper tier of stalls they are made of wood and lined with zinc. and when it is necessary, they may and when it is necessary, they may
be thoroughly washed out by the use of a hose.
The gratings are raised by means of cords and pulleys, acting upon a cross-bar D, which underlies the bars as shown.
Patented, Jne 8, 1869, by William M. Bleakley, Verplank, N. Y., whom address for State, county, or town rights.

## To Prevent Decay of Shingles.

The following is said to effectually prevent the decay of shingles:
Take a potash kettle, or large tub. and put into it one barrel of lye of wood ashes, five pounds of white vitriol, five pounds of alum, and as much salt as will dissolve in the mixture. Make the liquor quite warm, and put as many shingles in it as can be conveniently wet at once. Stir them up with a fork, and when well soaked, take them out and put in more, renewing the liquor as necessary. Then lay the shingles in the usual manner. desirable, add ocher, Spanish brown, lampblack, etc., and apply to the roof with a brush or an old broom. This wash may be renewed from time to time. Salt and lye are excellent preservatives of wood. It is well known that leach tubs, troughs, and other articles used in the manufacture of potash never rot. They become saturated with the alkali, turn yel lowish inside, and remain impervious to the weather.

Improved Machine for Cutting lrregular Forms.
We illustrate herewith a very practical and useful devic for cutting irregular and ornamental forms, such as table legs, balusters, etc., by which a great deal of work can be done in a short time and in a very exact manner
The main features of the device are, the attachments for holding, adjust.ng, and feeding the pillars, balusters etc., to be cut into irregular forms or plane sides, on a table past a rotary cutter. The invention may be may be said for hidis


## KEAGEY'S MACHINE FOR CUTTING IRREGULAR FORMS

the action of the revolving cutter upon the blank. In the possibly be done by hand. At the same time the hands of the engraving, $A$ is the bed upon which are placed the spindle $\begin{aligned} & \text { possibly be done by hand. At the same time the hands of the } \\ & \text { operator are perfectly safe from injury. For dressing stuff }\end{aligned}$ or centering heads, B and C; B being adjustable vertical- like the piece, K, with squares at both ends, the center pin y, and either having a spindle for holding the blank, or seen at the end of the piece, is inserted in the hole through a hole for the turned e nd of the blank. The head, C, has an the centering head, B. This machine is capable of dressing adjustable spindle, E , and is itself adjustable along the bed not only balustersand chair, table, desk, and counter legs, but to receive different lengths of blanks. The spindle, E , car- can be used to dress hay-rake and grain-drill spokes; and ries a templet or dividing plate, F, with spacing notches, stuff that has to be thrown away when finished by hand on which dividing plate is removable to permit interchange of account of knots and curls (the handsomest when finished), is plates variously divided for various kinds of work. The dressed almost as readily as straight-grained wood. Any notches of the dividing plate engage with a spring catch, $G$, workman knows the disadvantages he labors under in dress which holds the plate in the desired position while the cut- ing such work as seen in the engraving, on account of the


After they are laid, take the liquor that was left, put limelthen BLEAKLEY IMPROVED HORSE STALL. After they are laid, take the liquor that was left, put lime
enough into it to make whitewash, and if any coloring is the the of the machine. A guide plate, I , or pat-


BLEAKLEY'S IMPROVED HORSE STALL cutting. The operator takes hold of the baluster, at B, with his right hand, and with his left hand on a hand rail, J, pushes the machine from him, and at the same time against the mandrel ; the machine is then pulled or drawn back, and lifting the spring catch, $G$, with the left hand, and turning the baluster with the right, one space, another side is presented to the cutting tool, thereby dressing the sides all alike, and making a thousand pieces exactly similar. After the required number have been shaped the straight bits are removed and

24 grains on each pound troy of silver coin. Portions cu rom standard test plates were handed to the jury, who ad and tested the coin by weight; having done this, a certain number of gold coins were melted into an ingot, which was then assayed; the same process being adopted with the silver coin. In the present instance the Pyx represented a coinage coin. In the present instance the Priop a coinage ourt coury being the the coin both as to weigh the veract of the jury being, that the coin, both as o weight an ails, however were most favorable to the late illustrious Master, who has so lately passed away. ails, however, were most favorable to the late illustrious

An adverse verdict would probably have been followed by no more serious penalty than the forfeiture of the Master's sureties, but it is interesting to note that in the reign of Henry I. the money was so debased as to call for the exemplary pun ishment of the "Moneyers," while in Anglo Saxon times the chief officer or Reve would have been punished by the loss of his hand should he fail to clea himself of the charge of pro-

able longitudinally, and furnished with a dividing plate for $|$| design. When this is effected, one man can do the work of |
| :--- | :--- | :--- |
| dor | adjusting the blank to the cutter, and a pattern for governing $\mid$ twenty men, and with greater neatness and accuracy than can

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[^0]:    Infierior tasto prefers rounded periods to sense and force

