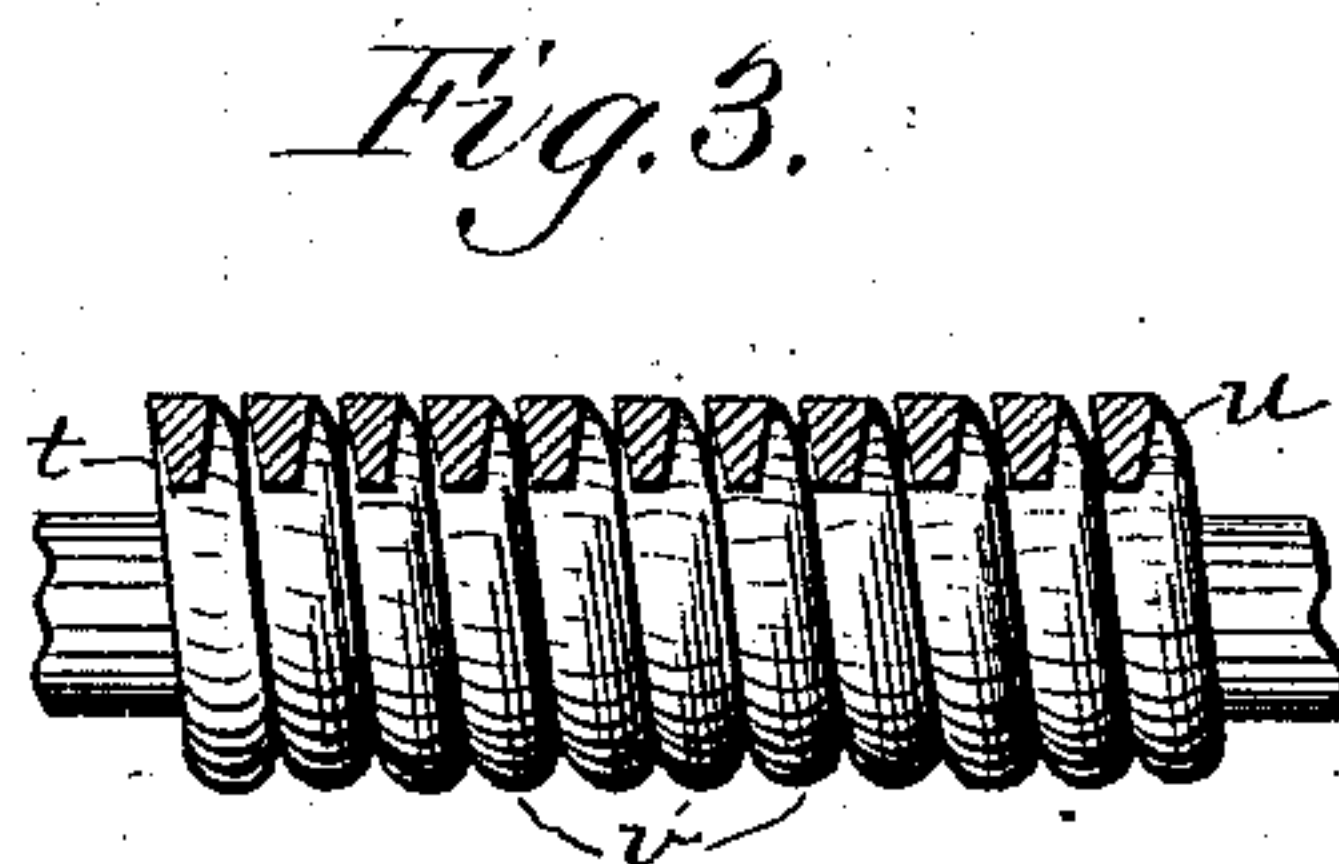
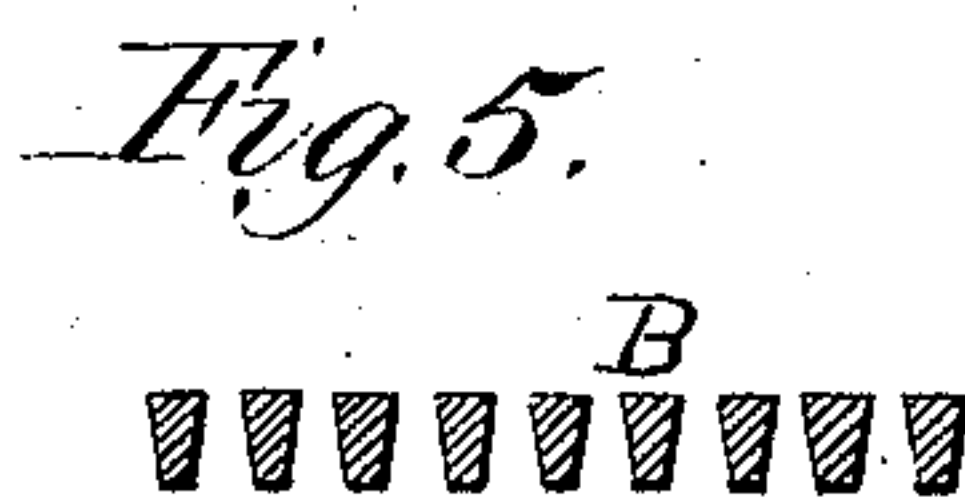
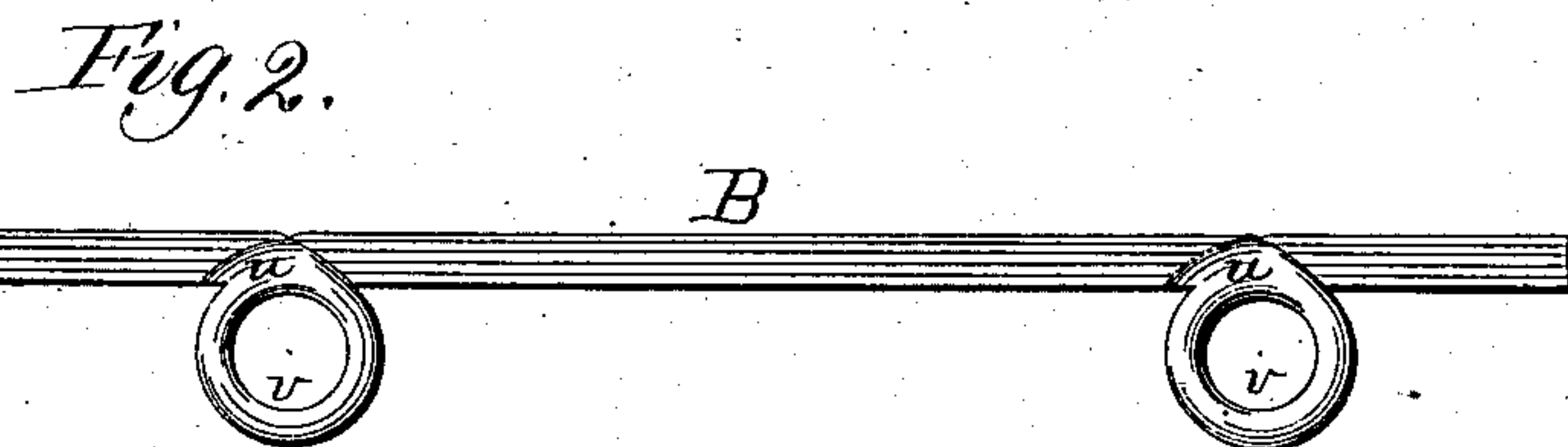
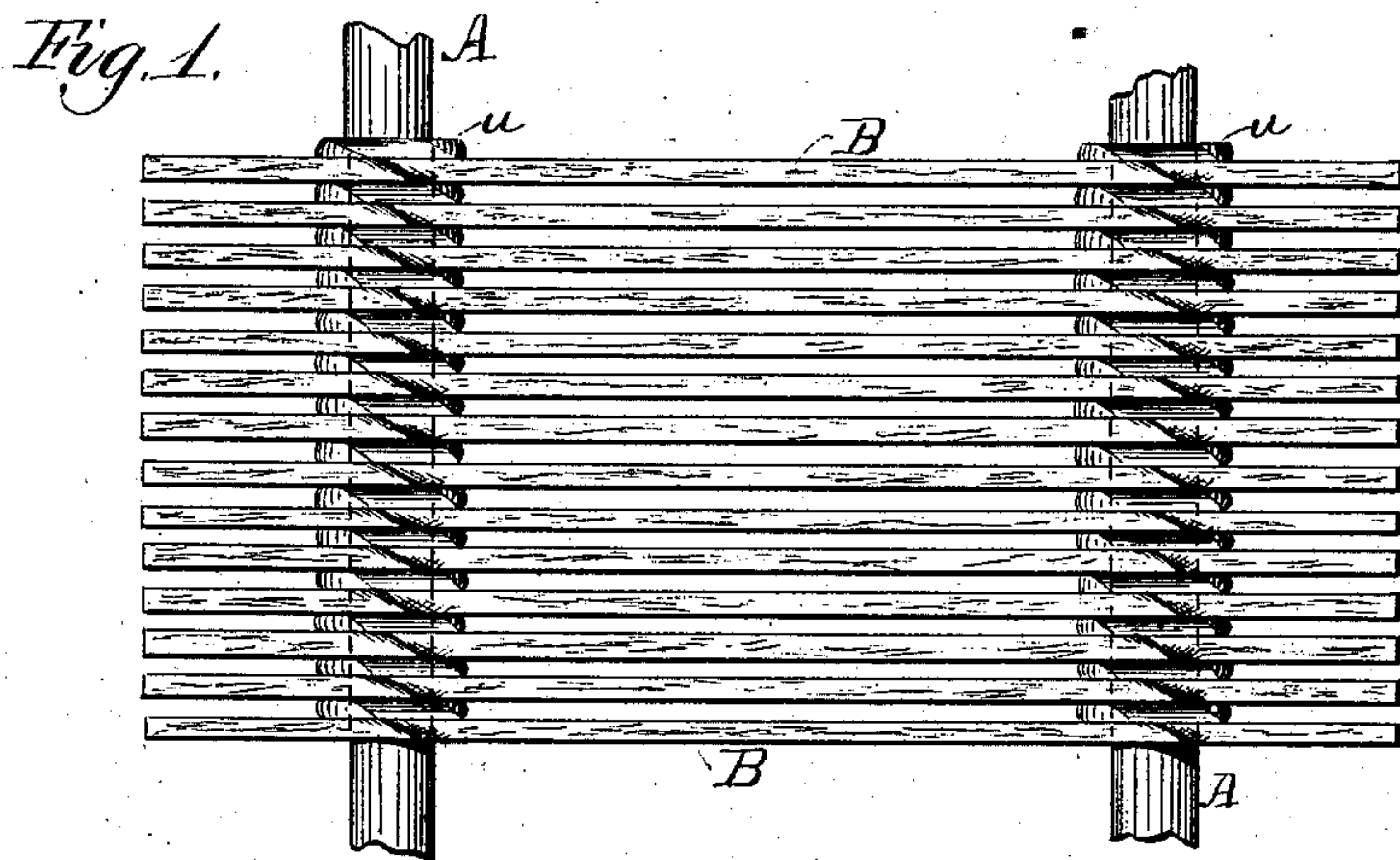


(No Model.)

P. WEINIG.  
MALT KILN FLOOR.

No. 281,326.

Patented July 17, 1883.



Witnesses:  
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# UNITED STATES PATENT OFFICE.

PAUL WEINIG, OF HANAU, PRUSSIA, GERMANY, ASSIGNOR TO FREDERICK  
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## MALT-KILN FLOOR.

**SPECIFICATION** forming part of Letters Patent No. 281,326, dated July 17, 1883.

Application filed November 10, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, PAUL WEINIG, a citizen of Germany, residing at Hanau, in the Kingdom of Prussia, Germany, have invented certain new and useful Improvements in Malt-Kiln Floors; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to that class of malt-kiln floors in which wedge-shaped wires or  
10 bars are bound together, parallel with each other, in tiles or sections of the desired size; and my invention consists in the particular construction of the said bars, whereby, when provided with suitable means for securing them  
15 together, as described, they are firmly held in position and incidentally maintained at the proper distance apart, all as hereinafter more fully set forth.

In the drawings, Figure 1 is a plan view of  
20 a section of my flooring; Fig. 2, a side elevation of one of the bars constituting the same; Fig. 3, a transverse section of the tile, taken at one side of the rings through which the connecting rod or bolt passes; Fig. 4, a trans-  
25 verse section of the same taken through the said rings apart from the connecting-rod or bolt; and Fig. 5, transverse sections of the parallel rods.

To form the bars I take round wires and  
30 bend them in such manner as to form rings v,  
the remainder of the wire remaining straight.  
Through these rings rods A are to be passed  
to hold the wires together in position. This  
I am aware is not broadly new, and I do not  
35 claim it as my invention. Having thus formed  
the wires with rings in the proper positions,  
I compress the wires into the wedge-shaped  
form shown, without, however, flattening the  
rings, except above the lower edge of the wire.  
40 The pressure brought to bear upon the wire is  
of sufficient force to cause it, at the crossing-  
point above the ring, to be swaged together,  
one part into the other, so as to form a straight  
wedge-shaped piece, B. The swaging-imple-  
45 ment is provided with depressions which cause  
the ring, on one side of the bar at least, to pro-  
ject beyond the upper edge of the bar, as

shown at *u*, and on the other side to lie preferably even with the upper edge of the bar, as shown at *t*. Thus when the wires are put together upon the rods A they are separated from each other just to the extent which the ring *v* projects beyond the upper edges of the wire on the sides. The connecting-rods A may be of any desired length, and the rods forming the sections may be held together by means of nuts or pins.

Although I have confined myself in the above description of my invention to its application in malt-kiln floors, it may be used 60 with equal advantage for other purposes—such as a grain-separator, where it is desired to separate the fine from coarser grain, or a sand-sifter.

What I claim as new, and desire to secure 65  
by Letters Patent, is—

1. As a new article of manufacture, the bar herein described for use in the manufacture of malt-kiln floors, &c., the same being formed of wire bent upon itself to form rings *v* at intervals, with the part aside from the rings swaged into a wedge-shaped form, substantially as and for the purpose set forth.

2. In a malt-kiln floor, sections or tiles of any desired length, formed of wires bent to form rings *v*, and compressed into a wedge-shaped form aside from the said rings, with each ring projecting beyond the upper edge of the bar on one or both sides, in combination with rods A, passing through the said rings, for securing the bars together, substantially as described.

3. In a malt-kiln floor made of bars formed of wire bent upon itself to form rings *v* at intervals, with the part aside from the rings swaged into a wedge-shaped form, the part of each bar above the rings forming a straight line throughout the whole length of the said bar, substantially as described.

PAUL WEINIG.

In presence of—  
F. VOGELER,  
J. GRUND.