

W. L. BAKER.
COMBINED SCRAPER AND DRAG.
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898,421.

Patented Sept. 15, 1908.

Fig. 1.

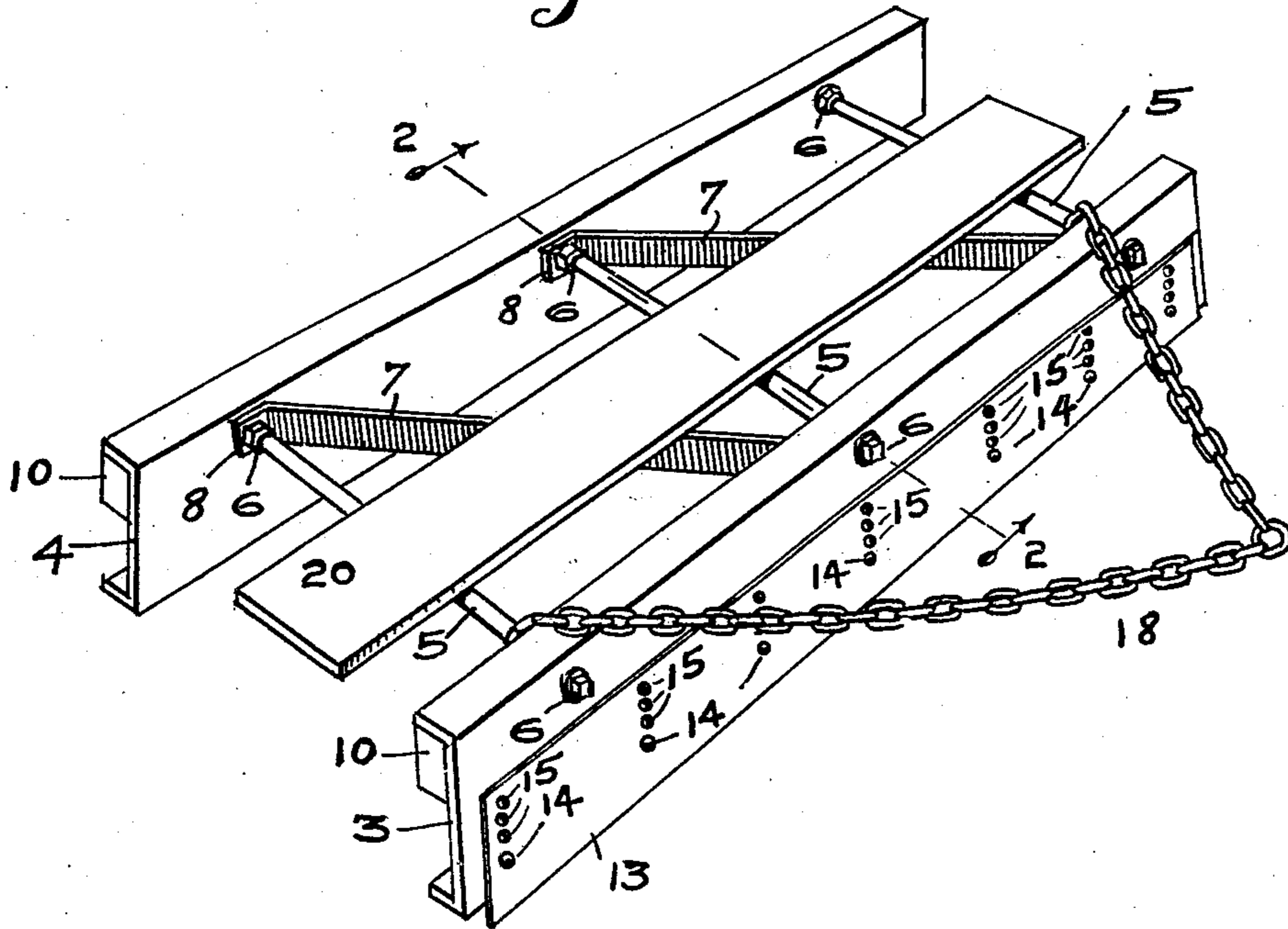
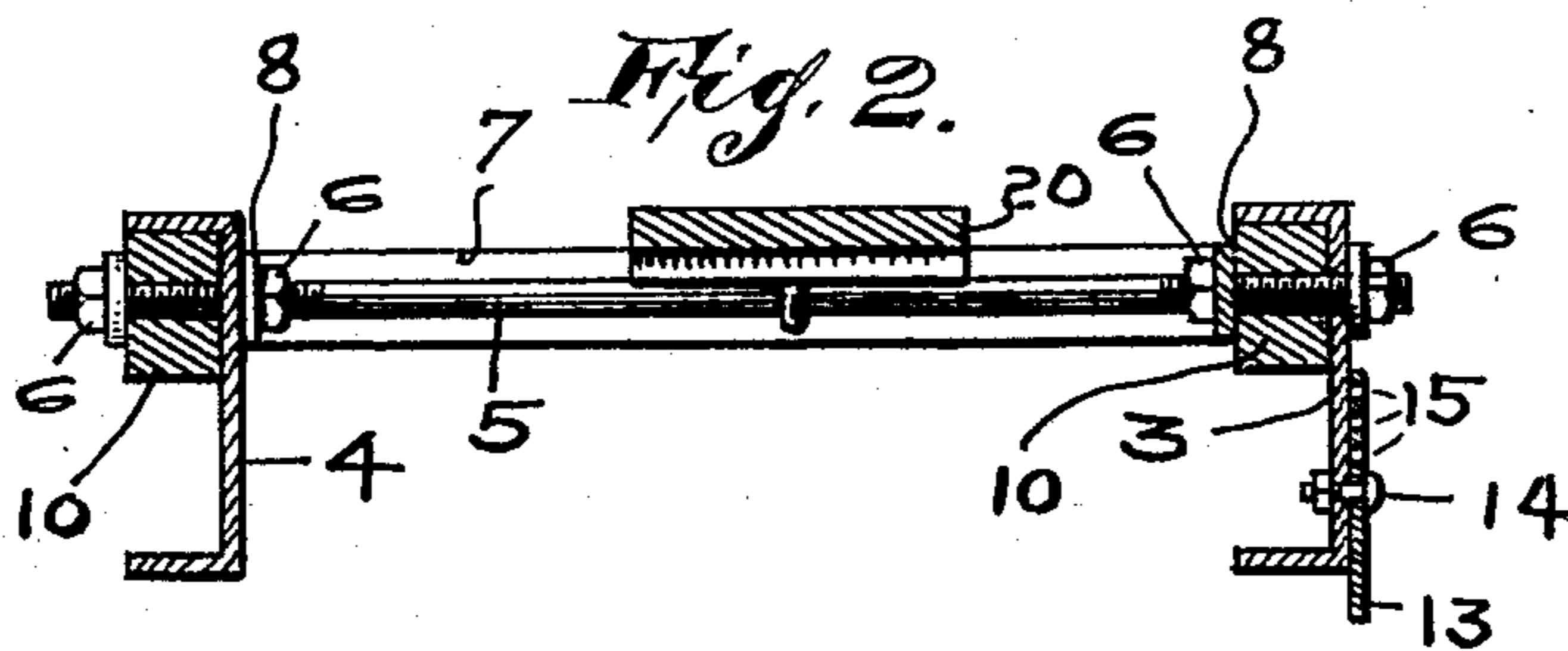


Fig. 2.



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WILLIAM L. BAKER, OF INDIANAPOLIS, INDIANA.

COMBINED SCRAPER AND DRAG.

No. 898,421.

Specification of Letters Patent.

Patented Sept. 15, 1908.

Application filed March 23, 1908. Serial No. 422,848.

To all whom it may concern:

Be it known that I, WILLIAM L. BAKER, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in a Combined Scraper and Drag, of which the following is a specification.

This invention is an improvement on the drag and scraper patented to me on Dec. 11, 1906 (No. 838,159), and the object is to provide channel-steel drag-bars with a ground-bearing flange or member of sufficient width to support the machine on any kind of soil or gravel, and to provide an adjustable cutting plate or shoe on the front drag-bar which can be lowered from time to time as the plate wears.

The object also is to improve upon the minor details of construction whereby a more durable and efficient device is provided.

I accomplish the objects of the invention by the mechanism illustrated in the accompanying drawing, in which—

Figure 1, is a perspective view of my complete invention and Fig. 2 a transverse section on the line 2—2 of Fig. 1.

Like characters of reference indicate like parts throughout the two views.

3 represents the front drag-bar and 4 the rear drag-bar, both of which are preferably formed out of channel-steel of the same size, pattern and quality.

5 are metal rods with threaded ends. The drawing shows three rods to the threaded ends of which the channel-bars 3 and 4 are secured by means of nuts 6. A pair of metal diagonal brace-bars 7, 7, helps to stiffen the structure by the placing of a brace-bar of the pair between each two adjacent rods 5, in the manner shown. It will be seen that the bent ends 8, of the brace-bars 7 are secured by the rods 5 passing through them and the screwing of the inside nuts 6 out against them.

10 are pieces, preferably of wood, which are in contact with the under faces of the top flanges or members of the front and rear drag-bars 3 and 4. The rods 5 pass transversely through these wooden pieces 10 thereby holding them rigidly in position, and they, by contact with the top flanges of the drag-bars prevent the rocking displacement

of the latter and consequently maintain the vertical members of the drag-bars in their proper working position with relation to the rest of the structure. It is obvious that the wooden pieces 10 are essential to give rigidity to the assembled parts. These pieces together with the vertical members of the drag-bars and the ends of braces 5 are clamped between a pair of nuts, at each fastening, on the threaded ends of rods 5, as clearly shown in Fig. 2.

The lower flanges of the drag-bars 3 and 4 form ground-bearings which will support the machine on any kind of soil or gravel, and the scraping and cutting will be done by a cutter-plate 13 which is secured by means of bolts 14 to the vertical member of the front drag-bar 3. A series of bolt holes 15 will be provided for each bolt which will permit the plate to be lowered as its lower edge becomes worn away by use. It will thus be seen that the life and efficiency of the machine may be extended by lowering the cutter-plate and when the latter is worn past the condition of utility a new plate can be substituted in place of the old one.

18 represents a chain for draft purposes, the ends of which are attached to the outside rods 5, and 20 is a riding-board which rests upon the rods 5 and braces 7.

Having thus fully described my invention what I claim as new and wish to secure by Letters Patent, is—

1. In a combined drag and scraper, drag-bars formed out of channel steel with the flanges turned toward the back of the machine and a cutter-plate adjustably secured to the front of the drag-bar and projecting below said bar.

2. In a combined drag and scraper, a plurality of drag-bars each formed out of channel steel with flanges turned toward the back of the machine, rods extending transversely of the drag-bars and pieces under the top flanges through which the rods pass, said pieces being in contact with their respective flanges and acting as supports to maintain the flanges in parallelism with said rods.

3. In a combined drag and scraper, a pair of parallel drag-bars each formed out of channel steel with the flanges turned toward the back of the machine, a plurality of bolts

extending transversely of the drag-bars and
passing through said bars, diagonal braces
between each pair of bolts, corner pieces fit-
ting under and against the top flanges of said
5 drag-bars through which corner pieces the
bolts are passed, nuts on said bolts in pairs
whereby by the screwing together of each pair
a corner piece and its adjacent drag-bar will

be clamped together, and a cutter-plate ad-
justably secured to the front drag-bar. 10

In witness whereof, I, have hereunto set
my hand and seal at Indianapolis, Indiana.

WILLIAM L. BAKER. [L. s.]

Witnesses:

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