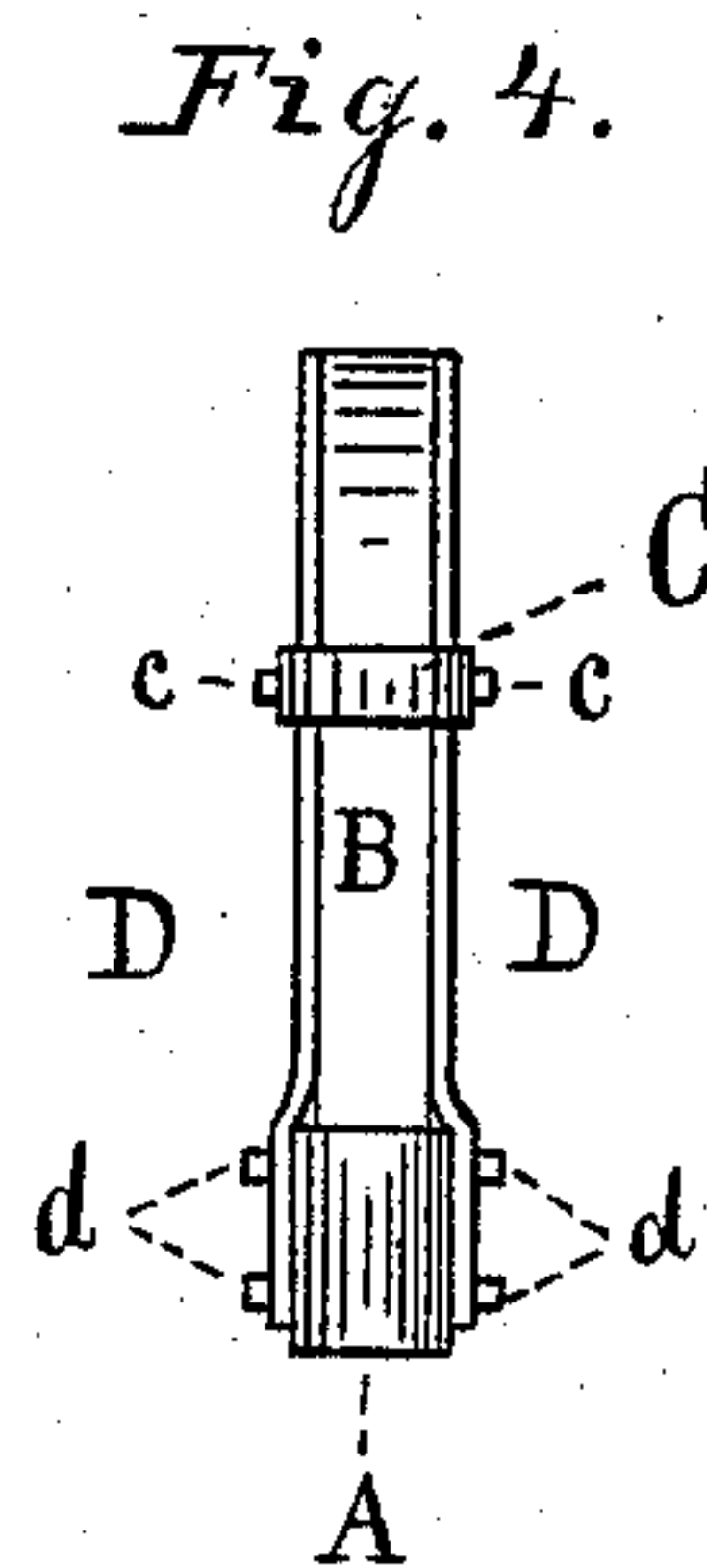
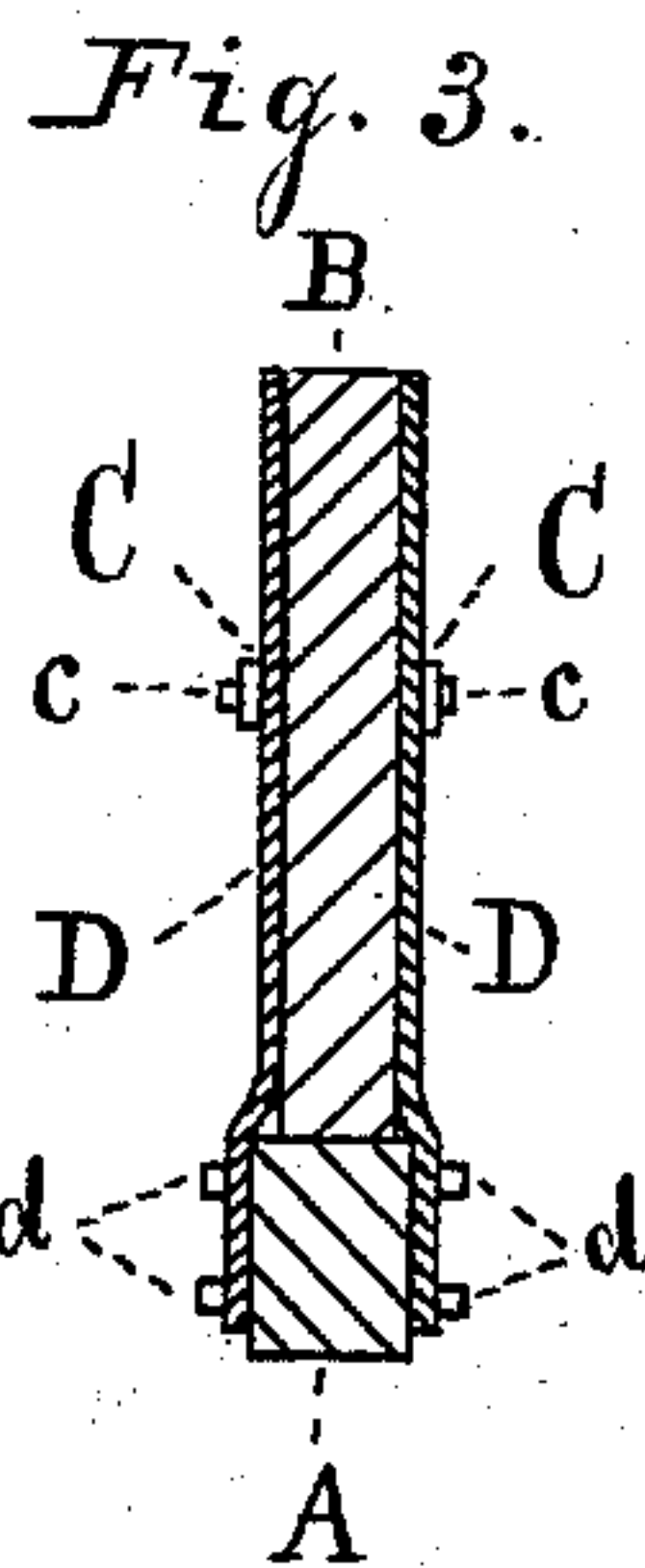
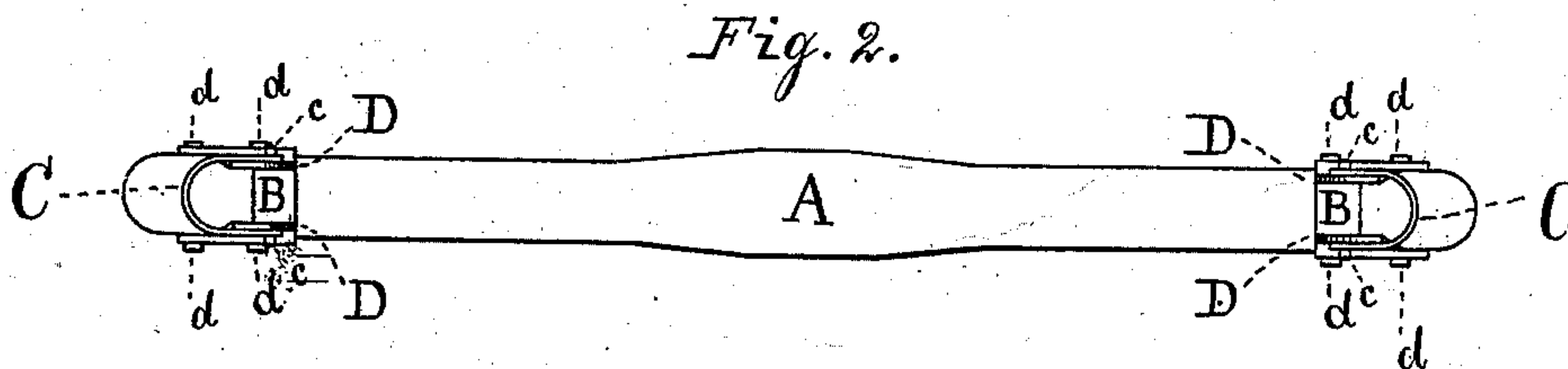
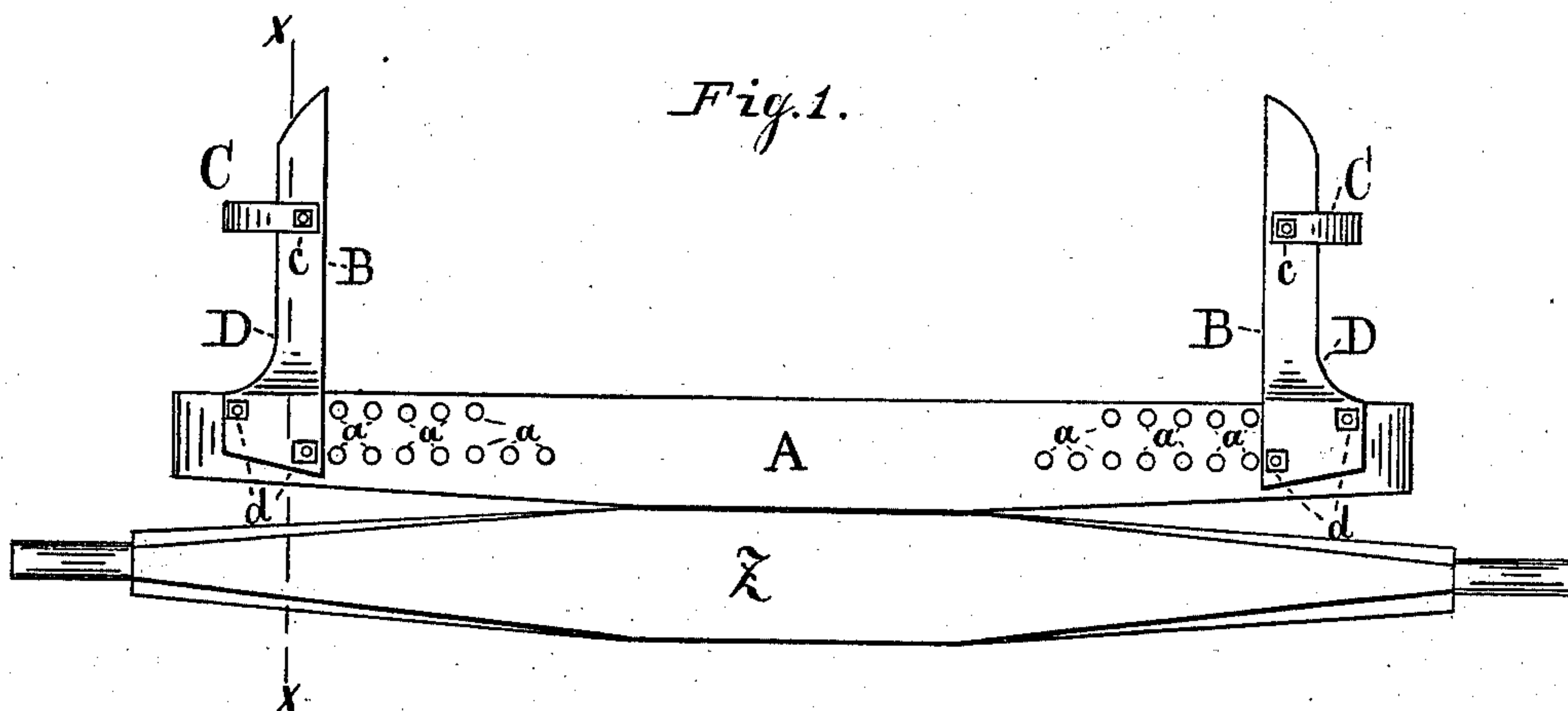


L. W. FREDERICK.  
Wagon-Standard.

No. 214,644.

Patented April 22, 1879.



WITNESSES  
James B. Liguier.  
Robt. C. Bond.

INVENTOR  
Levi W. Frederick,  
per C. Bradford,  
Attorney

# UNITED STATES PATENT OFFICE.

LEVI W. FREDERICK, OF INDIANAPOLIS, INDIANA, ASSIGNOR OF ONE-HALF  
HIS RIGHT TO ROBERT S. DORSEY, OF SAME PLACE.

## IMPROVEMENT IN WAGON-STANDARDS.

Specification forming part of Letters Patent No. **214,644**, dated April 22, 1879; application filed  
September 12, 1878.

*To all whom it may concern:*

Be it known that I, LEVI W. FREDERICK, of the city of Indianapolis, county of Marion, and State of Indiana, have invented certain new and useful Improvements in Wagon-Standards, of which the following is a specification, reference being had to the accompanying drawings, which are made a part hereof, and in which similar letters of reference indicate similar parts.

Figure 1 is a side view of a wagon-bolster provided with my improved standards and mounted on an axle-tree. Fig. 2 is a top or plan view of the same. Fig. 3 is a transverse vertical section, looking to the right from the dotted line *x x* in Fig. 1. Fig. 4 is an end view of the bolster and its attachments.

In said drawings, the portions marked A represent a wagon-bolster; B, the central portions of the standards thereto; D, the metal plates forming the outer portions of said standards; C, clasps on said standards, for the purpose of holding supplemental standards, (not shown;) and Z, an axle-tree.

The standards, consisting of the central part, B, and the plates D D, suitably fastened together, are secured to the bolster A by the bolts *d d*. The said bolster is provided with a series of holes, *a a*, in which the bolts *d* are placed. This arrangement allows of various changes in the position of the standards, so that the distance between them can be made to correspond to the width of the load to be carried. I prefer to use two of the bolts *d* with each standard, arranged as shown; but one will answer the purpose, and a greater number can be used, if desired. The clasp C is usually held to the standard by a single bolt, *e*. The plates D D are somewhat wider

than the part B, and thus partially inclose the supplemental standards when the same are used. They are also formed wide enough at the lower end to allow of the bolts *d d* being so inserted that the standard will need no other brace.

The construction of these standards is very simple, they consisting only of the central portion, B, (usually formed of wood,) and the sheet-metal plates D D, and suitable rivets or bolts to fasten the parts together. They are attached to the bolster by the bolts *d*, only no tenon and mortise or additional fastening of any kind being necessary. They are quickly and easily removed or varied at will, and the cost of manufacture is very small.

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

1. A wagon-standard composed of the middle portion, B, and the side plates, D D, said plates being wider than said middle portion, so as to partially inclose a supplemental standard, and still wider at their lower ends, so that they may be securely fastened to the bolster by the bolts *d d* only, substantially as herein shown and specified.

2. A wagon-standard having its side plates formed to project beyond the central portion, so as to partially inclose a supplemental standard, substantially as herein shown and specified.

In witness whereof I have hereunto set my hand and seal at Indianapolis, Indiana, this 10th day of September, A. D. 1878.

LEVI W. FREDERICK. [L. S.]

In presence of—

C. BRADFORD,  
PRESTON HARVEY.