

No. 744,213.

PATENTED NOV. 17, 1903.

G. W. LA VOO.  
THREAD PROTECTOR.  
APPLICATION FILED JAN. 27, 1903.

NO. MODEL.

Fig. 2.

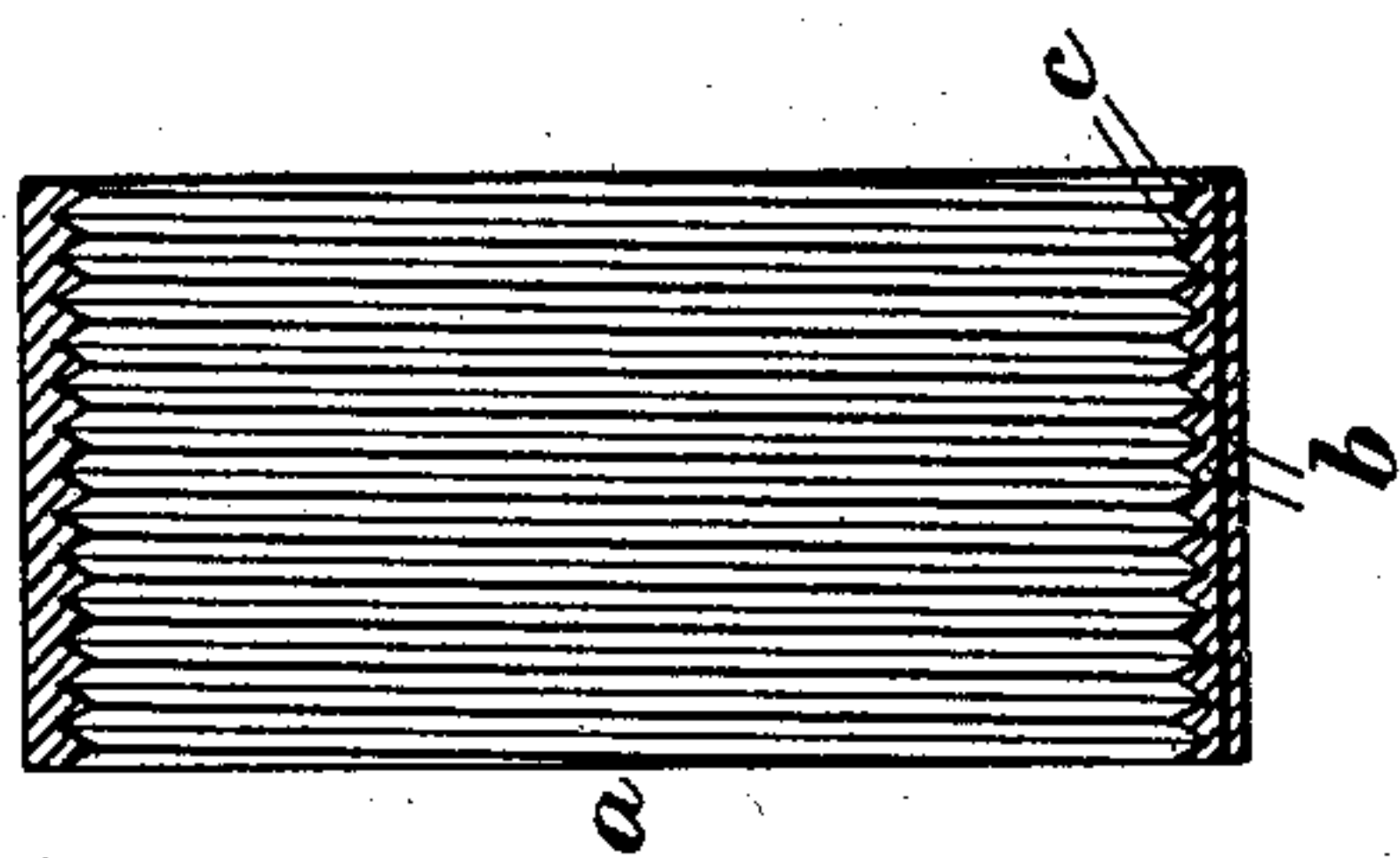


Fig. 3.

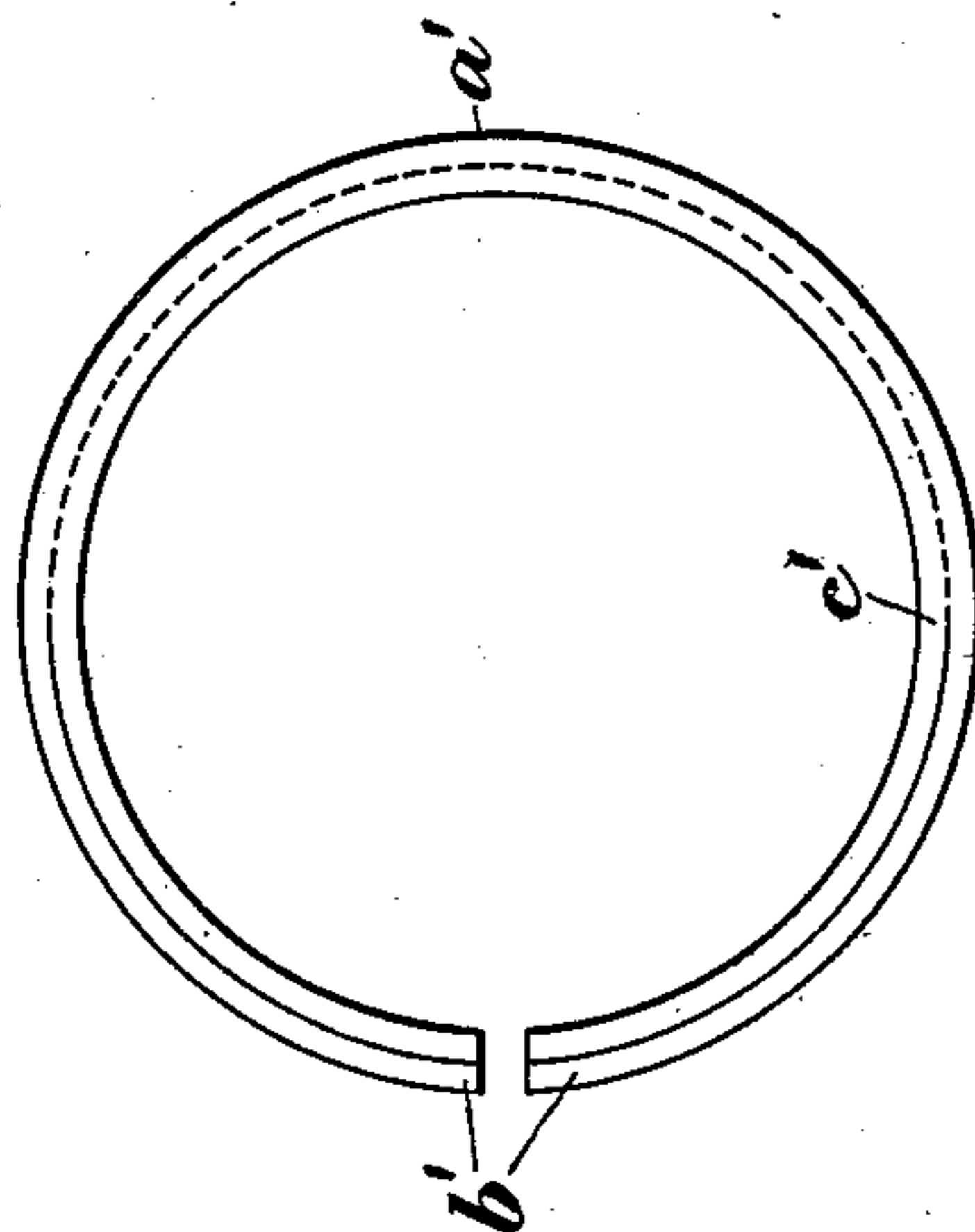
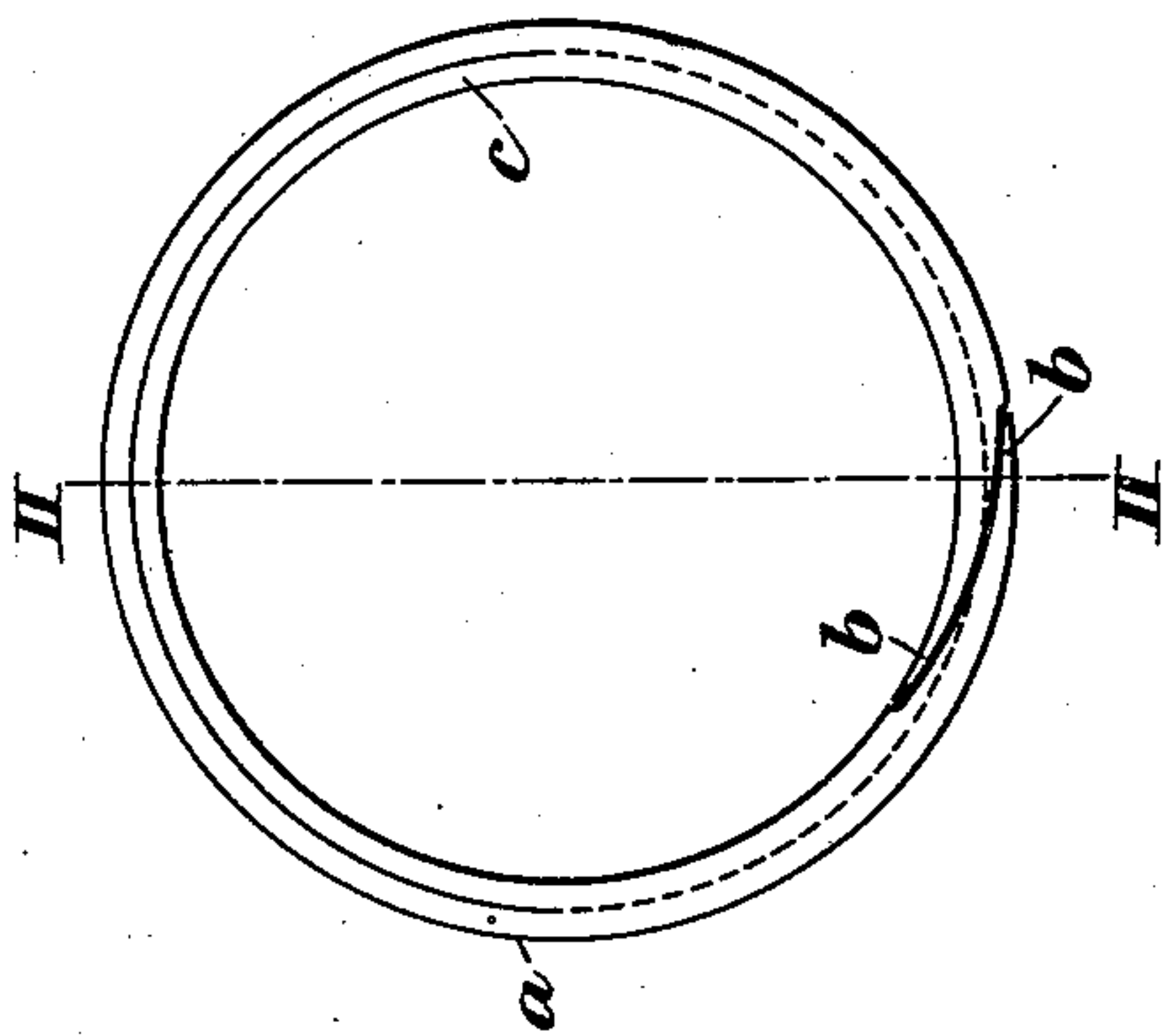


Fig. 1.



WITNESSES

Warren U. Swartz  
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INVENTOR

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By [Signature] & [Signature]  
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## UNITED STATES PATENT OFFICE.

GEORGE WILLIAM LA VOO, OF STEUBENVILLE, OHIO.

## THREAD-PROTECTOR.

SPECIFICATION forming part of Letters Patent No. 744,213, dated November 17, 1903.

Application filed January 27, 1903. Serial No. 140,783. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE WILLIAM LA VOO, of Steubenville, Jefferson county, Ohio, have invented a new and useful Thread-Pro-  
5 tector, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is an end view of my improved  
10 thread-protector. Fig. 2 is a cross-section on the line II II of Fig. 1, and Fig. 3 is an end view of a modified form.

My invention relates to the class of thread-protectors which are placed upon the screw-  
15 threaded ends of pipes or tubes to protect the threads during transit, and is designed to provide a cheap and efficient article of this character which will accommodate itself to variations in the pipes and threads. Heretofore  
20 these protectors have either been formed of a welded ring or of a ring with the ends held together by a clip or connecting-piece. In either case the rings must be made with variations for the same size and several varied  
25 rings of the same general size carried in stock to fit the variations in different pipes of the same gage.

My improved protector consists of a spring-  
30 ring of resilient material having inner screw-threaded portions, the ends of the ring being free, so that the ring is held in place by its own resiliency and may be fitted to varying sizes of the same gage of pipe.

In the drawings, referring to Figures 1 and  
35 2, I show a protector consisting of a collar or ring *a*, the ends *b* of which lap over each other, but are not welded. The overlapping portion may extend around the ring to any desired distance and may be extended to form  
40 two layers around the circumference, if desired. I have shown the ring as provided

with internal screw-threads *c* throughout the inner surface; but these threads may extend for a part or parts only of the length of the ring and may be mutilated either longitudi- 45  
nally or transversely. In Fig. 3 I show a similar ring *a'*, except that the ends *b'* do not overlap but are left with a slight gap between them. In this form a spanner may be intro-  
50 duced into the gap to open the ring slightly, and thus aid in placing it on the pipe or in removal.

The advantages of my invention result from the simplicity and cheapness of the protector and its ease of application to and removal 55  
from the pipe. The threaded pipe ends are usually tapered, and the ring is preferably shaped to fit over the outer threads and then is forced to the inner end of the threaded portion, thus fitting the variations of size of 60  
pipes.

Variations may be made in the form and arrangement of the protector and its threads without departing from my invention.

I claim— 65

1. A thread-protector comprising a resilient ring having free registering ends, said ends being each of the width of the ring, at least a portion of the interior being provided with screw-threads; substantially as described. 70

2. A thread-protector comprising a resilient ring or collar with free registering ends, each being of the width of the ring and having a screw-thread extending throughout its interior; substantially as described. 75

In testimony whereof I have hereunto set my hand.

GEORGE WILLIAM LA VOO.

Witnesses:

JOHN BAXTER,  
W. E. BESWEEK.