

(No Model.)

H. WHITE.

MACHINE FOR POINTING SPLIT KEYS.

No. 248,626.

Patented Oct. 25, 1881.

Fig. 1.

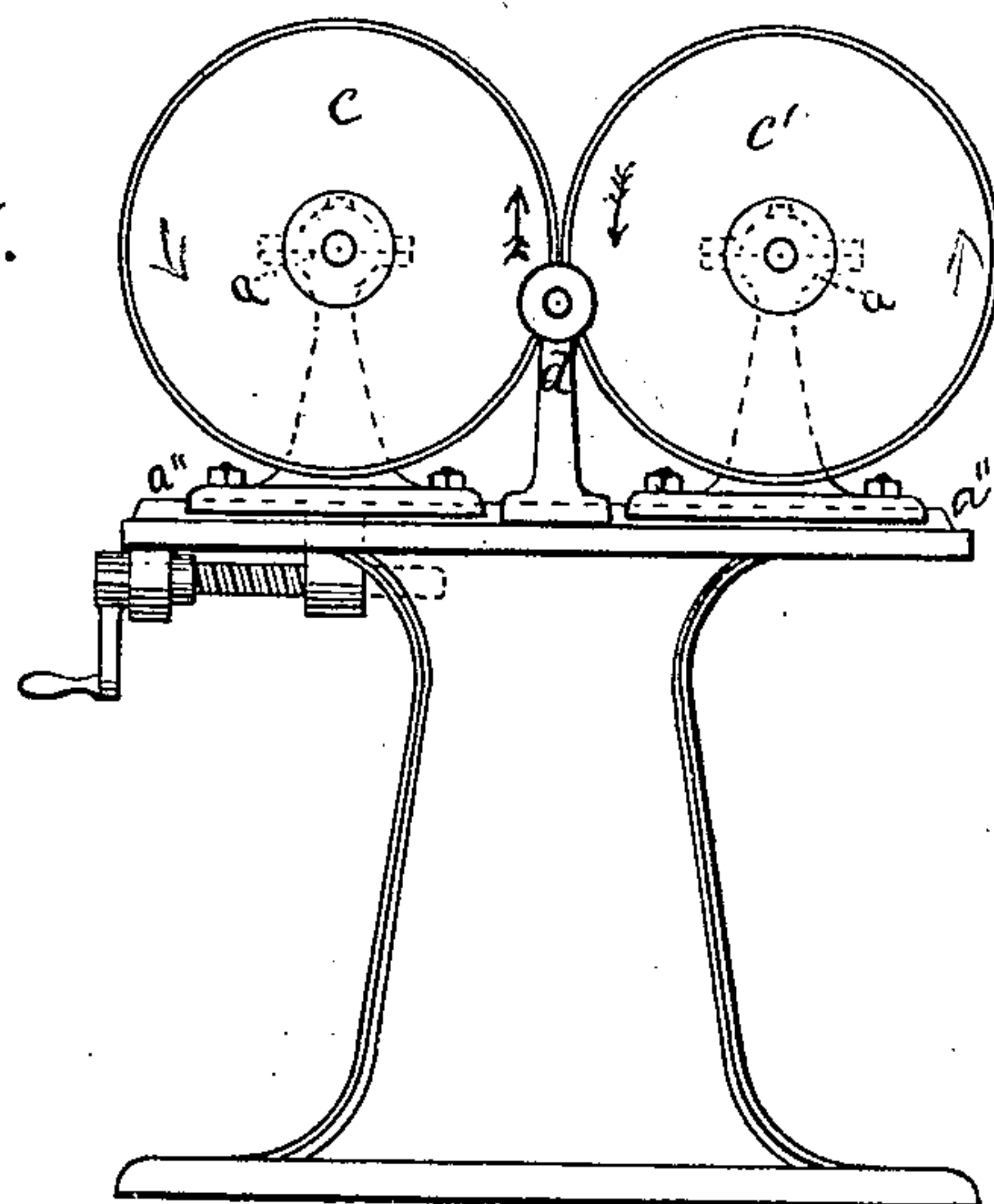


Fig. 3.

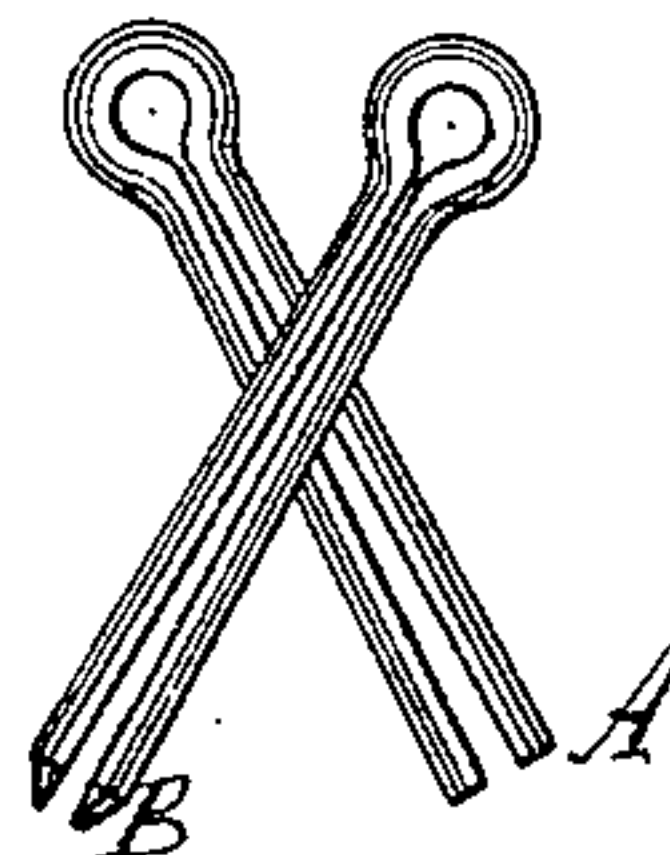
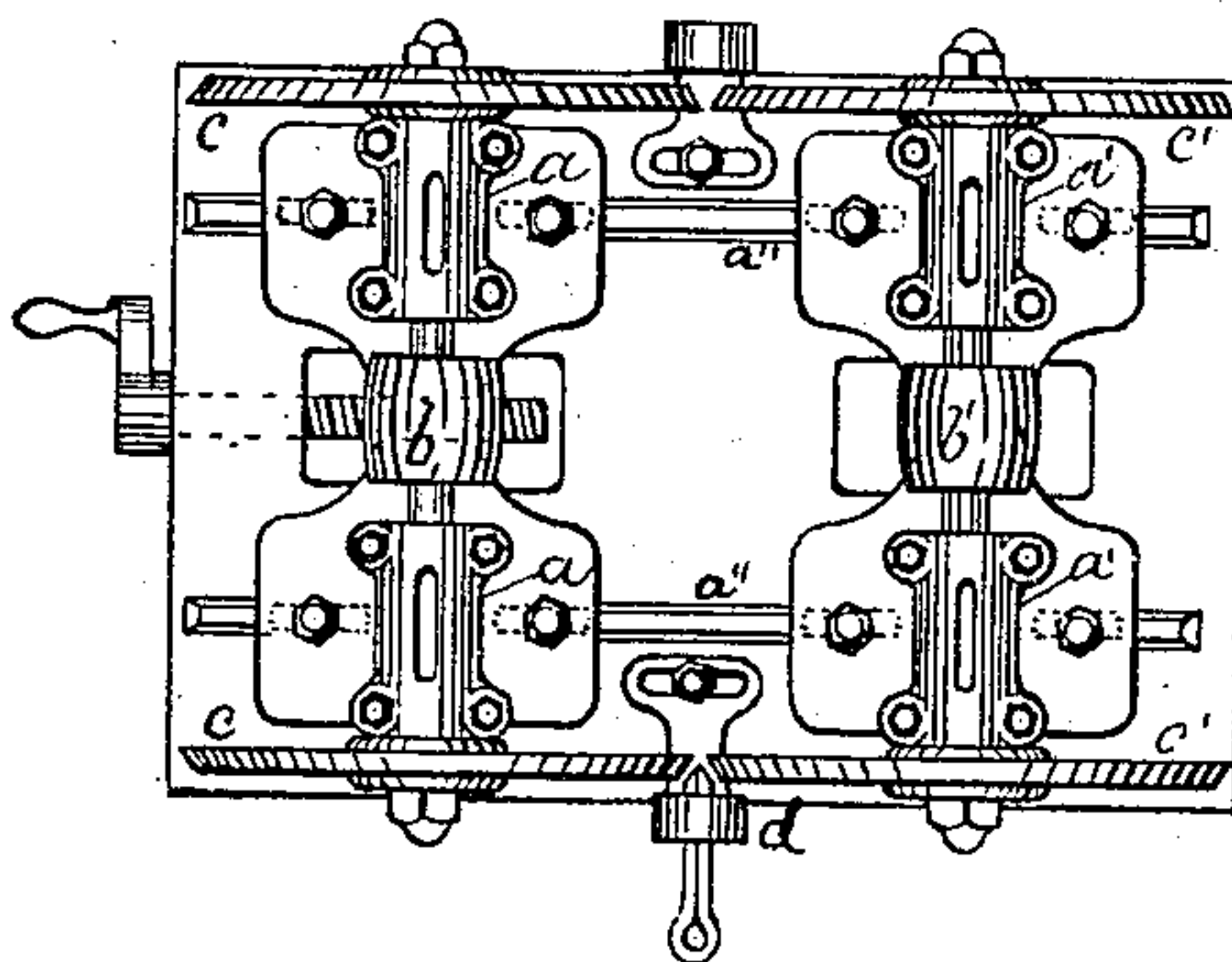


Fig. 2.



Witnesses:

J. J. Greenough
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UNITED STATES PATENT OFFICE.

HARVEY WHITE, OF SYRACUSE, NEW YORK, ASSIGNOR TO THE WHITMAN & BARNES MANUFACTURING COMPANY, OF SAME PLACE.

MACHINE FOR POINTING SPLIT KEYS.

SPECIFICATION forming part of Letters Patent No. 248,626, dated October 25, 1881.

Application filed March 19, 1881. (No model.)

To all whom it may concern:

Be it known that I, HARVEY WHITE, of the city of Syracuse, Onondaga county, State of New York, have invented certain Improve-
5 ments in Machinery for Pointing Split Keys and the like, of which the following is a specification.

Great difficulty has been experienced in rapidly and cheaply pointing split keys by grinding and steadily holding them during the operation in a convenient manner, which is important in their manufacture in large quantities.

To supply the necessary apparatus for this purpose has been the object of my present invention, the construction of which is set forth in the following description and annexed drawings, in which—

Figure 1 is a side elevation of the grinders.
20 Fig. 2 is a top plan, showing a double set of grinders. Fig. 3 shows a split key, A before pointing, and B after pointing.

On a suitable base and supporting-frame are two journal-boxes, *a*, placed in line, fitting
25 upon a rib, *a''*, through which they are bolted, so as to be adjustable and held steady when in operation, in which a shaft rests, having a pulley, *b*, on its center, between the boxes *a*. On each end of this shaft, projecting beyond
30 the boxes *a*, a wheel or disk, *c*, is affixed. Each disk has a rim around its periphery, made of soft iron or other suitable material for pointing the work, for which purpose the face of the rim is made conical to properly shape the
35 bevel of the point. Parallel with the shaft and its bearings *a* in the same plane there is a second shaft with its bearings *a'*, pulley *b'*, and disk-wheel *c'*, in all particulars like the one first described. The disk-wheels *c* and *c'* run
40 in the same plane, with their inclined peripheries nearly in contact, as clearly seen in Fig. 1. A single belt passes around the two pulleys *b* *b'*, connecting them with the driving-power, by which they are revolved at a high
45 velocity, their two adjacent surfaces running in opposite directions, as indicated by the arrows, Fig. 1.

There is an adjustable rest, *d*, affixed to the frame, consisting of a standard, through the upper end of which there is a round hole at
50 the point where the grinding-wheels *c* *c'* approach the nearest to each other, through which hole the split key is put to grind. The hole through this rest must be adapted to the size of the key to be inserted therein. By this
55 construction and adjustment of parts I am enabled to present and hold and grind the points of split keys with rapidity and precision by means of unskilled labor more accurately than has been heretofore done by skilled ma-
60 chinists. The rest thus constructed serves to hold the parts of the key firmly in position and properly present them for pointing.

The key to be pointed by said conical grinding-wheels *c* *c'* is pushed forward through the
65 hole in the stationary rest *d*, by which it is securely held and properly presented to the grinders, the surfaces of which at the grinding-point run in opposite directions, as indicated by the arrows, Fig. 1, and reduce the end of
70 the key to a proper point, the key being thrust forward and held and turned by the hand of the operator, assisted by a holder that enters the eye of the key and aids the hand in presenting and removing it.
75

The material of which the peripheries of the grinding-wheels are constructed not being claimed, they may be made of wrought or cast iron or other metal determined by the operator to suit his purposes, as desired, and there-
80 fore this needs no particular description.

Having thus fully described my key-pointing apparatus, I claim—

The combination of two conical disk-wheels, *c* *c'*, with the tubular rest *d* for holding and
85 presenting the key to be pointed by them, as herein described.

In witness whereof I have hereto set my hand.

HARVEY WHITE.

In presence of—

J. J. GREENOUGH,
ROYAL H. THORN.