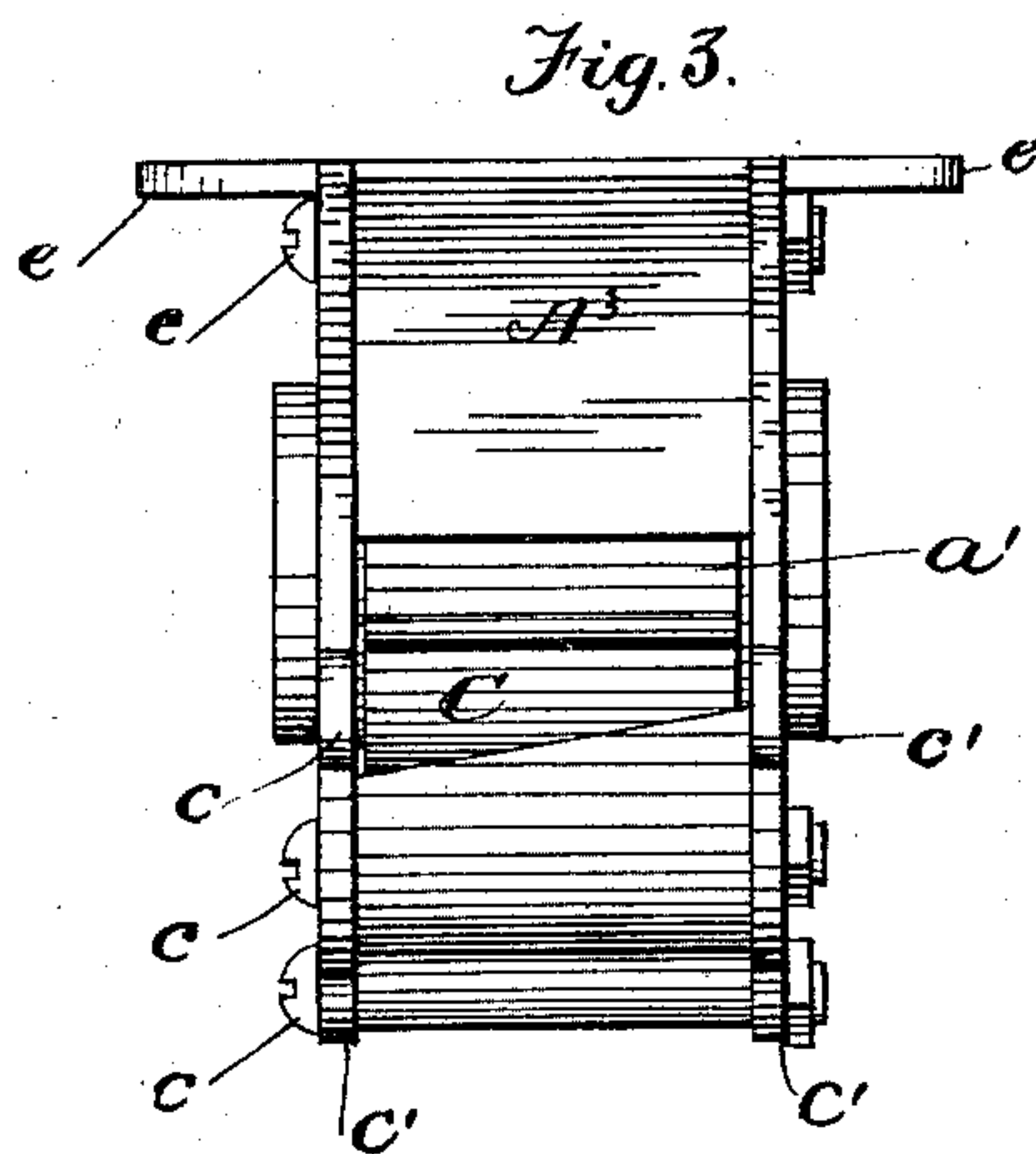
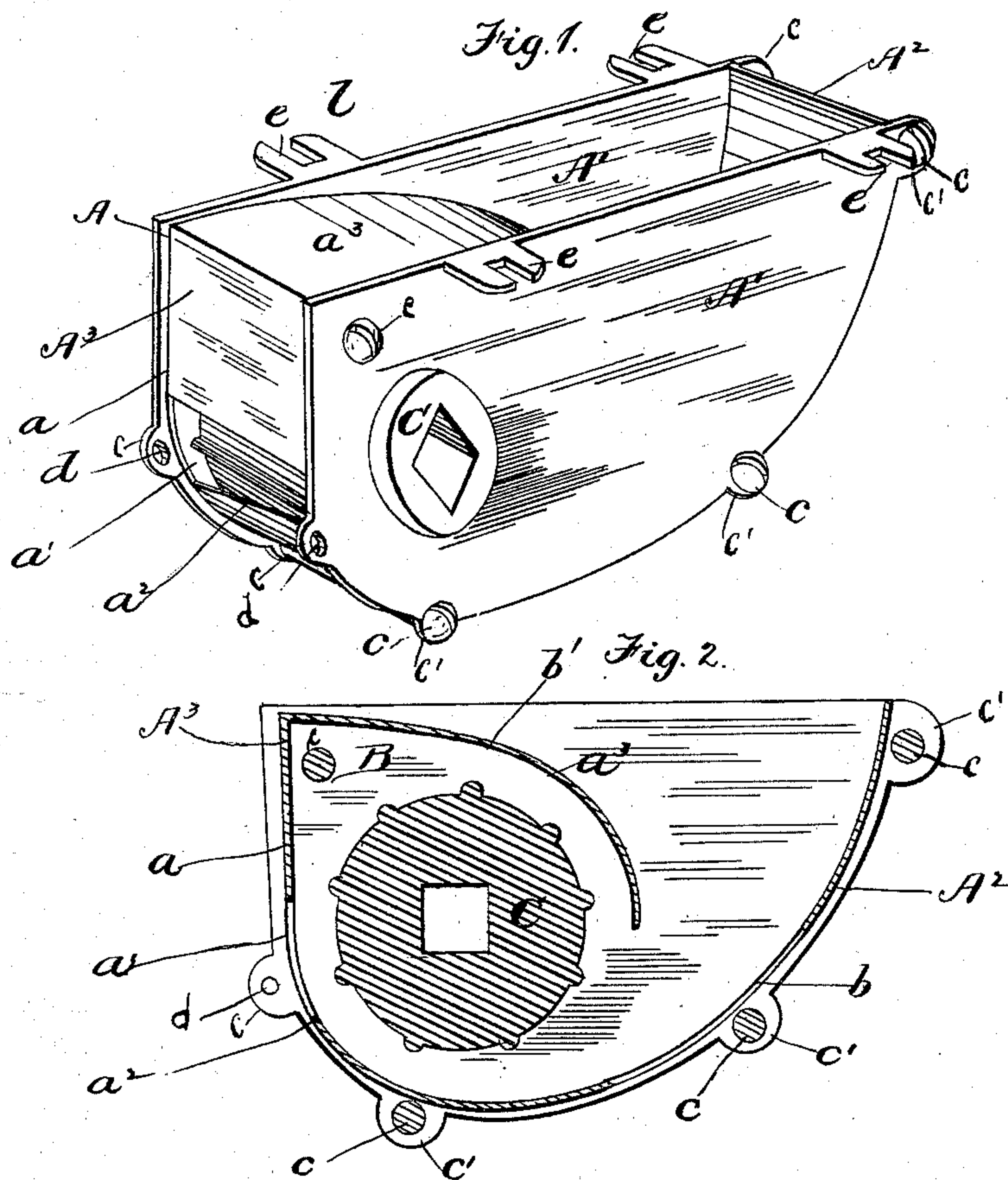


(No Model.)

W. P. ELAM.
FEED BOX FOR SEED DRILLS.

No. 263,152.

Patented Aug. 22, 1882.



Witnesses:
F. H. Knight
H. S. Reeside

W. P. Elam
Inventor,
By Edson Bros
Attorneys

UNITED STATES PATENT OFFICE.

WILLOUGHBY P. ELAM, OF PETERSBURG, ILLINOIS, ASSIGNOR OF ONE-HALF TO WILLIAM EDWARD ELAM, OF SAME PLACE.

FEED-BOX FOR SEED-DRILLS.

SPECIFICATION forming part of Letters Patent No. 263,152, dated August 22, 1882.

Application filed December 10, 1881. (No model.)

To all whom it may concern:

Be it known that I, W. P. ELAM, a citizen of the United States, residing at Petersburg, in the county of Menard and State of Illinois, have invented certain new and useful Improvements in Feed-Boxes for Seed-Drills, of which the following is a specification, reference being had therein to the accompanying drawings, in which—

10 Figure 1 is a perspective view of my improved seed-cup for seed-hoppers. Fig. 2 is a longitudinal section, and Fig. 3 is an end view.

This invention appertains to an improvement in the subdivision of grain or seeding machines, known as "force-feed," its object being to improve the construction of the seed-cup affixed to the seed-hopper; and it consists in providing the sides of the cup with inner grooves and fitting its bottom and the feed-wheel-chamber top plate into said grooves and bolting the parts together, the sides having flanges to aid in the attachment of the cup to the seed box and conductor, substantially as hereinafter more fully set forth.

25 In carrying out my invention I construct the seed-cup A of two side pieces, A', whose lower edges have an approximate semicircular shape, a correspondingly-shaped plate, A², forming its bottom and one end, and of the angular plate 30 A³, with its vertical portion a only closing the upper part of its opposite end, to provide a seed-discharge opening, a'. The opening a' has an inclined or oblique lower edge, a², to permit the continuous feeding through it of the grain, instead of intermittently, as would be 35 the case were its lower edge arranged in a horizontal plane. The other part, a³, of the plate A³ is inclined or curved inwardly or downwardly to form the top of the sub-chamber B of the cup A, within which is hung the feed-wheel C. The side plates, A', of the cup are 40 made on their inner sides with coincident grooves b extending along their bottom and ends to receive and enable the ready adjust-

ment thereto of the plate A², forming the bottom and one end of the cup and the end portion, a, of the angular plate A³. They are also provided on the same side with additional similar grooves, b', joining the grooves at the upper rear corners of the side pieces, and extending 50 inwardly and downwardly in an inclined or curved manner to a point a short distance from the bottom of the cup. These grooves b' receive and permit of the ready adjustment in place of the inwardly-projecting portion a³ of the plate A³. The several parts are secured 55 together by means of the headed and nutted bolts or rods c, passed through perforated flanges c', formed on the side pieces, A', or directly through the side plates themselves. 60 The side plates are further supplied with perforated flanges d, to provide partly for the attachment thereto of the conductor, which receives the grain from the cup A, and also with slotted flanges or ears e, to aid in securing the 65 cup to the lower side of the seed-hopper. The feed-wheel C, which may be a ribbed cylinder or cog-wheel with short teeth to force the grain or seed passing down into the cup and into the sub-chamber having the wheel, receives motion from its shaft driven by gearing 70 or other suitable means of the seeder.

Having thus described my invention, I claim and desire to secure by Letters Patent—

In a force-feed seeding-machine, the seed-cup 75 A, composed of the side plates, A', provided on the inside with coincident grooves b, extended along their lower edges and ends, and with the grooves b', joining the grooves b at the upper rear corner edges of the side pieces, A', the 80 plates A² A³, and the feed-wheel C, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

WILLOUGHBY P. ELAM.

Witnesses:

THOMAS E. CLARK,
OLIVER B. CARTER.