

J. A. Price.

Self-Clearing Stove Grate.

No. 119,787:

Patented Oct. 10, 1871.

Fig. 1.

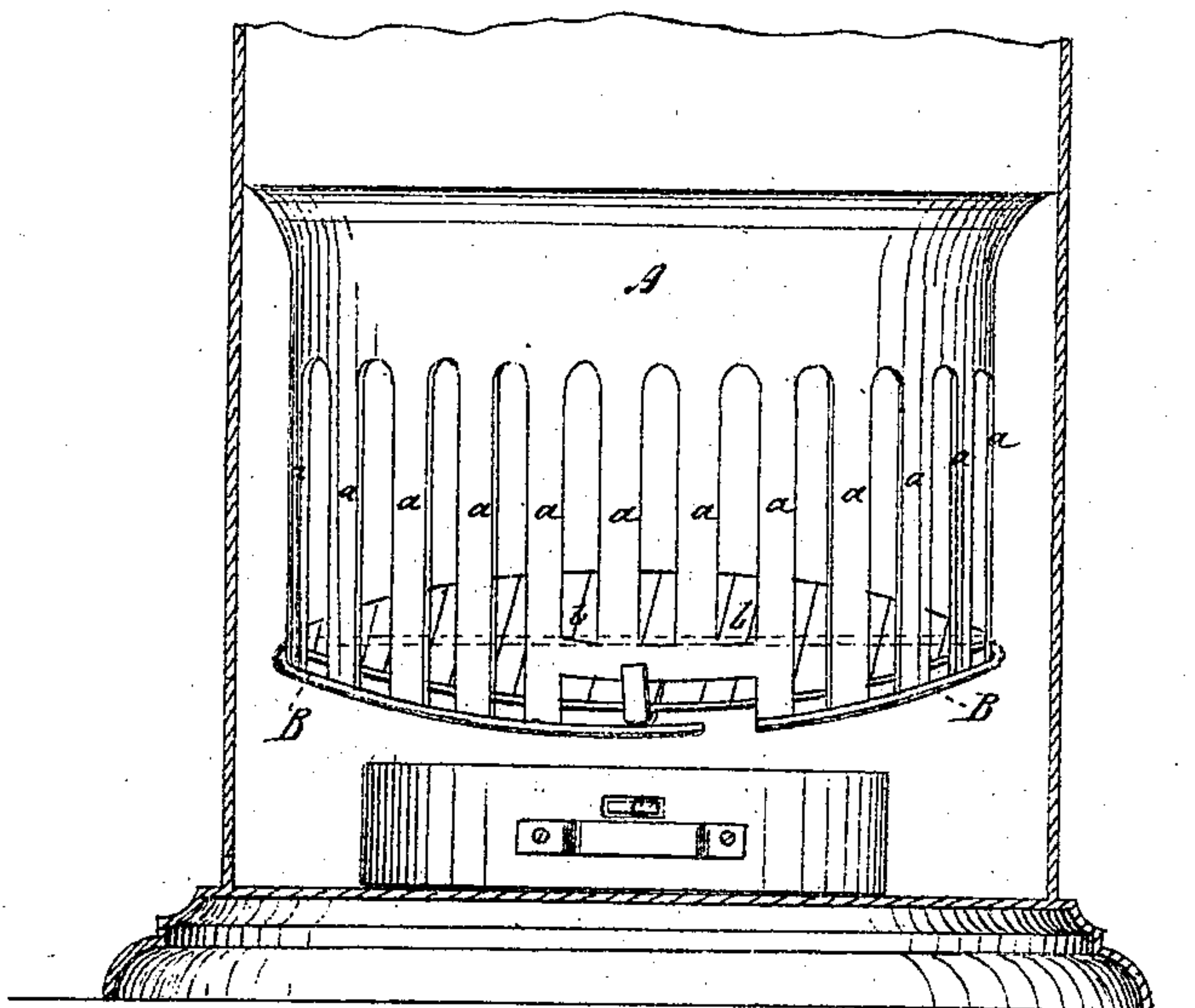
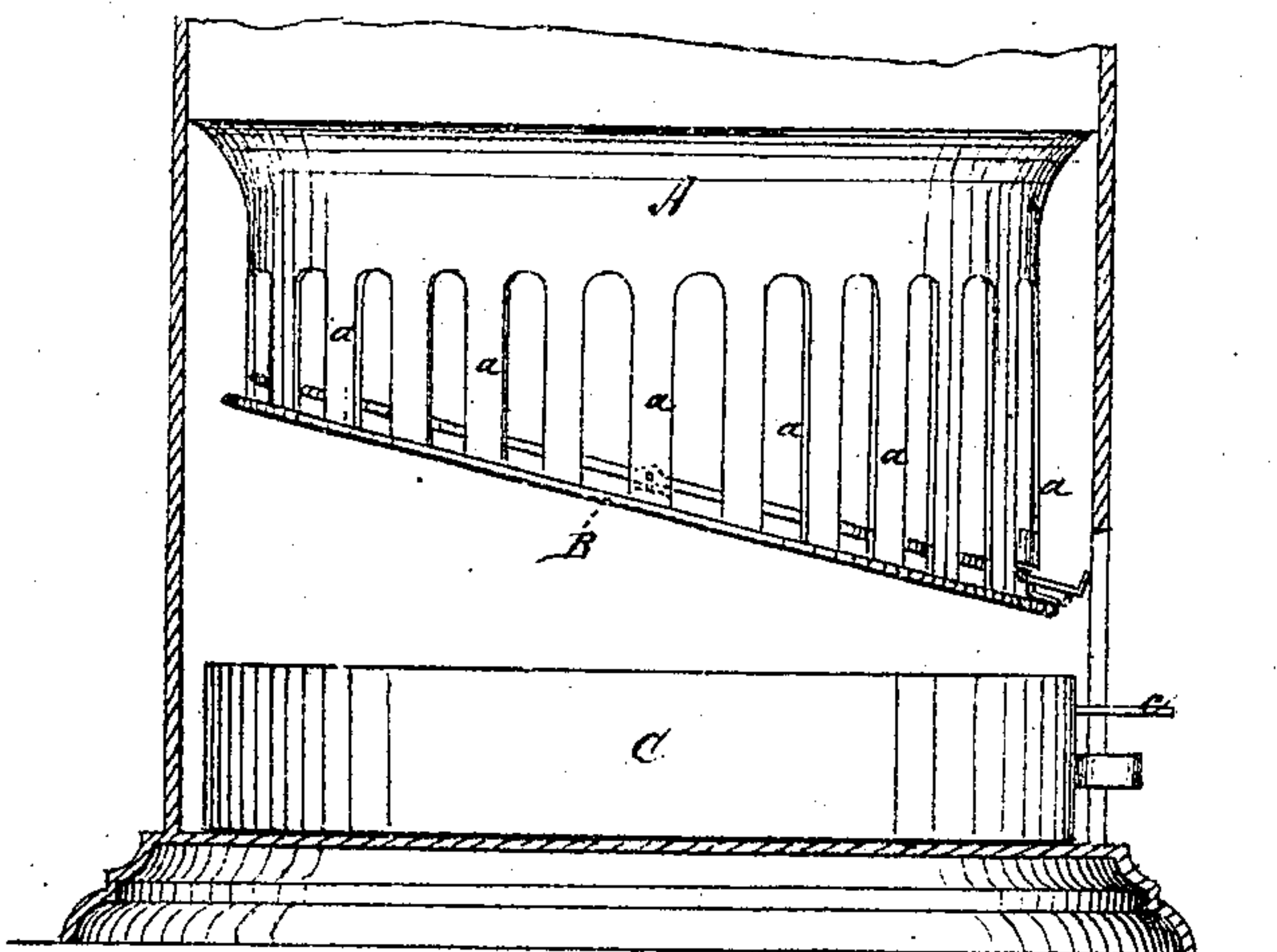


Fig. 2.



Witnesses:

H. J. Arutz
C. C. Brown

J. A. Price, Inventor.

by Geo. E. Brown

his Attorney.

UNITED STATES PATENT OFFICE.

JOHN A. PRICE, OF SCRANTON, PENNSYLVANIA.

IMPROVEMENT IN STOVE-GRATES.

Specification forming part of Letters Patent No. 119,787, dated October 10, 1871.

To all whom it may concern:

Be it known that I, JOHN A. PRICE, of Scranton, Luzerne county, Pennsylvania, have invented an Improvement in Stove-Grates, of which the following is a specification:

The invention consists in a vertical grate formed at the lower end of the fire-pot, and either in one piece with the latter or separate from it, and produced by casting the fire-pot with a series of bars at its lower end and placed at suitable intervals apart, in combination with a vibratory bottom grate placed at an inclination upward from front to rear.

Figure 1 is a side elevation, and Fig. 2 is a front elevation.

Referring to the drawing, A is a fire-pot, and *a* the bars of the vertical grate above referred to. B is the inclined ring that connects the bottoms of the bars *a*. *b* is the inclined vibrating bottom grate. C is the ash-pan below the grate *b*, said ash-pan being furnished with a bailed sifter,

c. When the grate *b* is shaken the debris from the coal, instead of remaining above it, as in the case of the ordinary horizontal grate, slides down the inclination and escapes from the fire-pot in front through the interstices of the vertical grate, and also escapes through the interstices of the inclined grate, thus keeping the inclined grate constantly clear. By inserting mica windows in the shell of the stove outside of the annular vertical grate a much larger surface of burning fuel is exposed to view than a fire-pot without such a grate is capable of showing, the cheerful effect of an open fire being thus attained.

I claim as my invention—

The fire-pot A, provided with the vertical bars *a* and combined with the inclined grate *b*, as specified.

JOHN A. PRICE.

Witnesses:

ANDREW COWAN,
S. A. ARMSTRONG.

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