

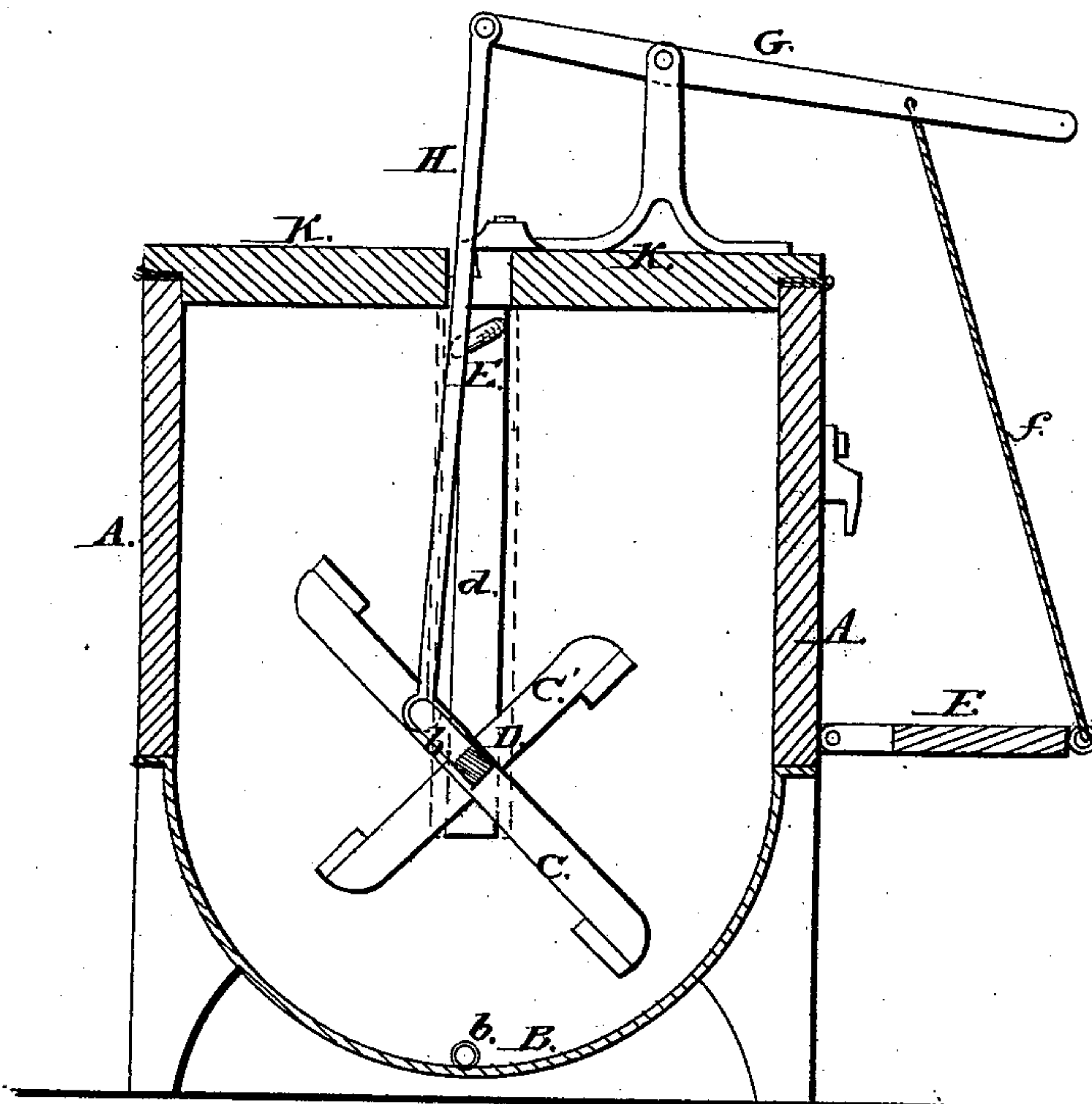
*D. C. McNeil*

*Churn.*

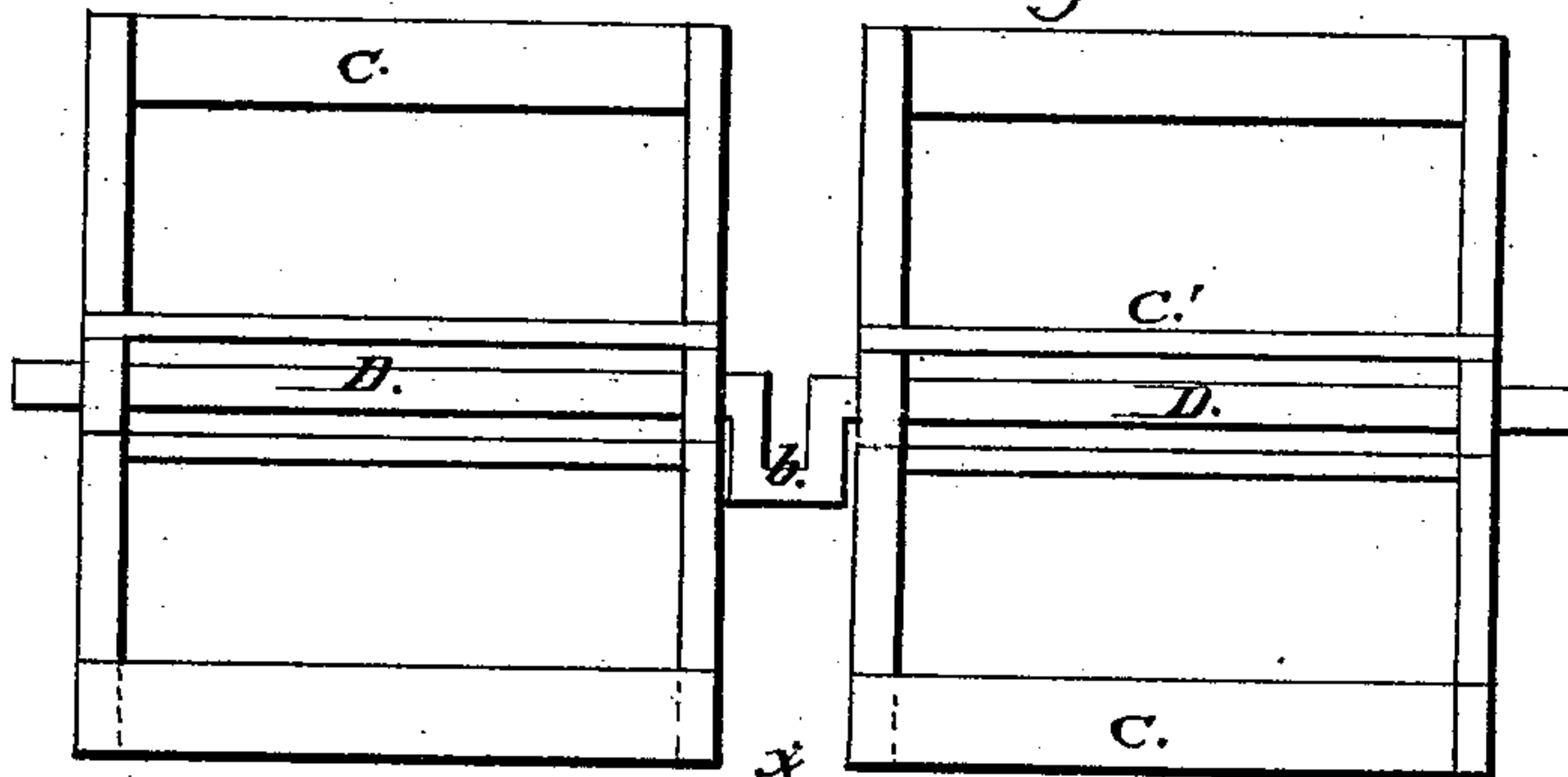
*N<sup>o</sup> 68,523.*

*Patented Sep. 3, 1867.*

*Fig. 2.*



*Fig. 1.*



*Witnesses:*  
*Theo. Froche*  
*Wm. Frewin*

*Inventor:*  
*D. C. McNeil*  
*Per Munn & Co*  
*Attorneys*

# United States Patent Office.

D. C. McNEIL, M. D., OF DE WITT, IOWA.

*Letters Patent No. 68,523, dated September 3, 1867.*

## IMPROVEMENT IN CHURNS.

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, D. C. McNEIL, M. D., of De Witt, in the county of Clinton, and State of Iowa, have invented a new and useful Improvement in Churns; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to an improvement in churns, and consists in a revolving dasher, composed of two paddles, each consisting of two rectangular frames, which I prefer to make of unequal dimensions, and are set at right angles to one another upon an axis. A reciprocating motion, imparted by a treadle, operates a crank rotating the axis. The churn, which I prefer making rectangular at top, is provided with a semi-cylindrical bottom, in which is a faucet to run off the buttermilk. The dashers or paddles, with their axis, are then removed from the churn, and the butter readily removed at one operation. In the accompanying drawings—

Figure 1 is a longitudinal vertical section of my improved churn, and

Figure 2 is a transverse section thereof at line *x x*.

Similar letters of reference indicate corresponding parts.

A A is the churn-box, having a semi-cylindrical bottom, B, in which is the faucet *b*, to run off the buttermilk. The paddle-dashers, two in number, consist of two rectangular frames C C', and I prefer making the frame C' smaller than C, as shown in the drawings. The axis D is journaled in the uprights *d d*, which slide in grooves *a* in the churn-box A, the uprights being secured in place by the hand-screws E.

The churn is operated by the treadle F, its reciprocating motion being converted into a rotary motion through the connecting-rod *f*, working-beam G, pitman H, and crank *h*. When the buttermilk is run off through the faucet *b*, the working-beam G is disconnected from the pitman H, and the lids K K opened, the thumb-screws E unscrewed, the uprights *d* carrying with them the axis D, and paddle-dashers removed from the churn-box A, and the butter, already well drained from the buttermilk, is then removed at a single operation.

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

1. The churn, consisting of the churn-box A and paddle-dashers C C', all as set forth, in combination with the treadle F, connecting-rod, working-beam, and crank, or their respective equivalents, in manner substantially as above set forth and described.

2. The paddle-dashers C C', having their axis D journaled in the movable uprights *b*, in manner and for the purposes substantially as described.

This above specification of my invention signed by me this 28th day of June, 1867.

D. C. McNEIL, M. D.

Witnesses:

S. H. SHOEMAKER,

G. A. AVRILL.