

U. BOUCHER.
Apparatus for Decortivating and Cleaning Grain.
No. 225,329. Patented Mar. 9, 1880.

Fig. 1.

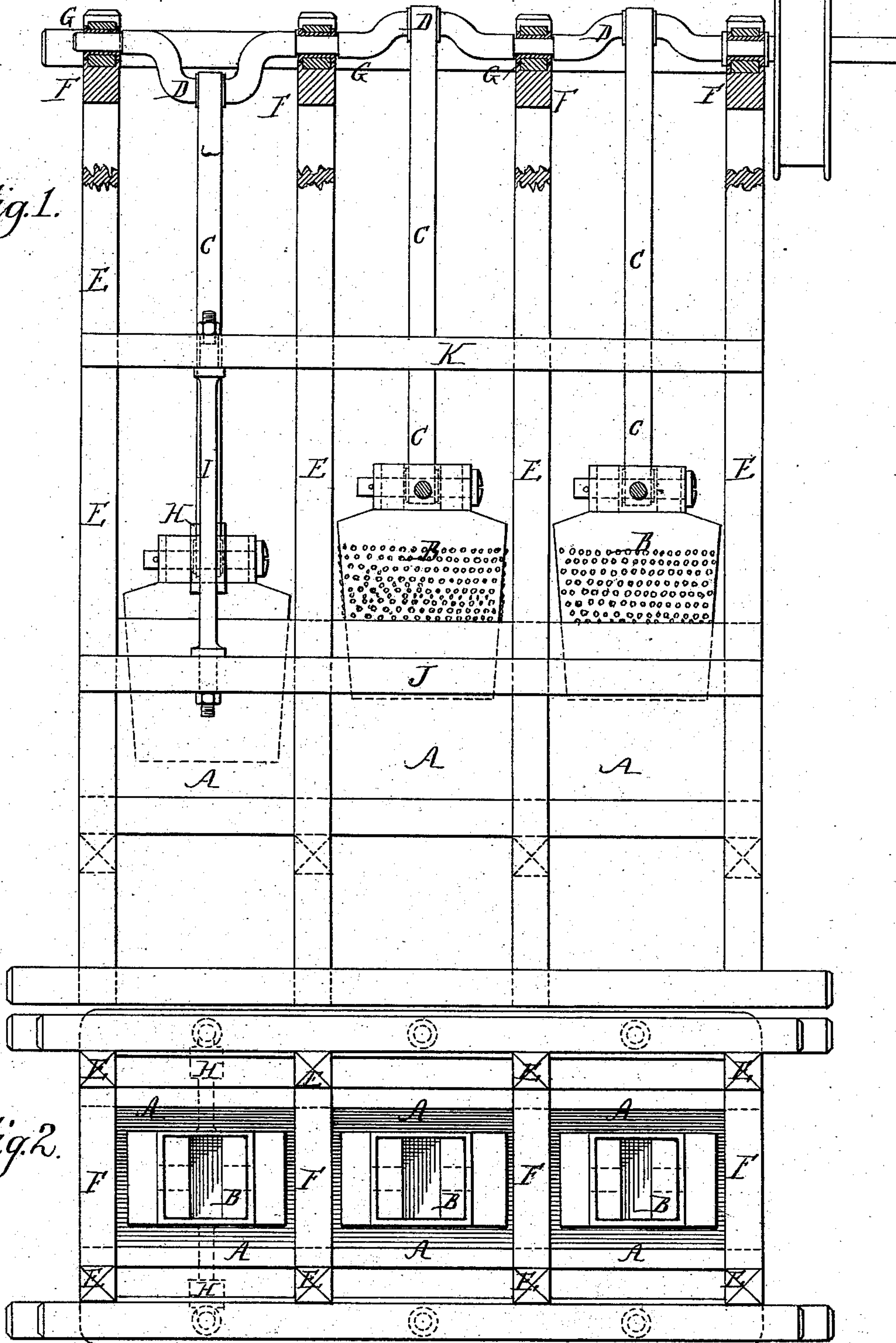
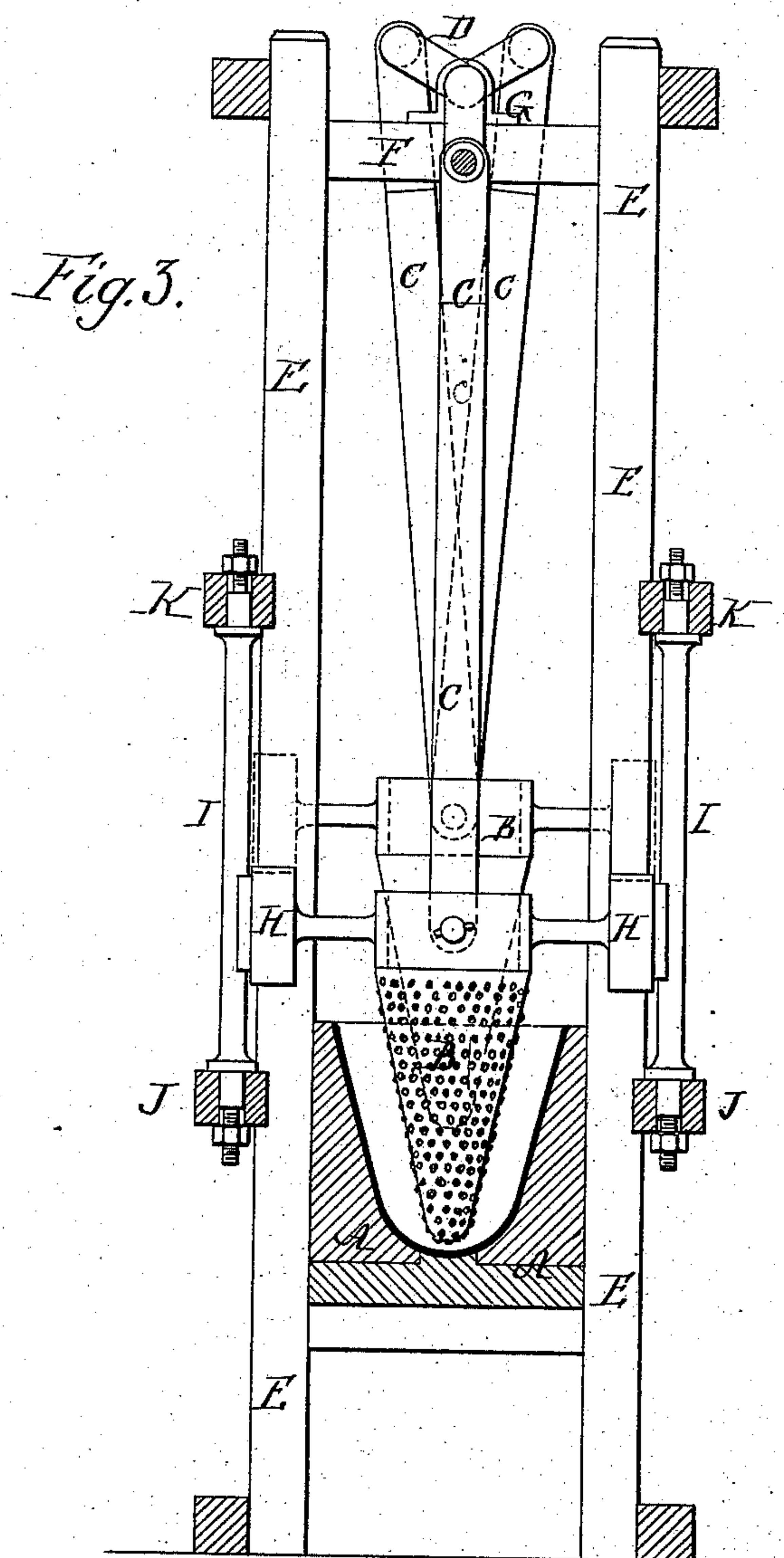


Fig. 2.

Witnesses. H. L. Fulsomwider,
Henry H. Towne, Jr.

Ulysse Boucher
by his attorneys
Howden and Son

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UNITED STATES PATENT OFFICE.

ULYSSE BOUCHER, OF PARIS, FRANCE.

APPARATUS FOR DECORTICATING AND CLEANING GRAIN.

SPECIFICATION forming part of Letters Patent No. 225,329, dated March 9, 1880.

Application filed January 5, 1880. Patented in England, May 28, 1878.

To all whom it may concern:

Be it known that I, ULYSSE BOUCHER, of Paris, Republic of France, have invented certain Improvements in Machines for Hulling and Cleaning Grain, for which British Letters Patent No. 2,117, dated May 28, 1878, were granted to William Spence, as a communication from me, and of which the following is a specification.

10 The object of my invention is to construct a simple and effective machine for hulling and cleaning grain; and this object I attain in the manner which I will proceed to describe, reference being had to the accompanying drawings, in which—

15 Figure 1, Sheet 1, is a side view of the machine; Fig. 2, a plan view with the crank-shaft, bearings, and connecting-rods removed; and Fig. 3, Sheet 2, a transverse vertical section.

20 The apparatus is composed of a longitudinal box or trough, A, the shape of which is shown in Figs. 1 and 2. In this box operate three plungers or pestles, B, connected by rods C to the cranks on the crank-shaft D. They are of a trapezoidal form, are rounded at the lower end, and are covered with punctured sheet metal.

30 The frame of the apparatus is composed of vertical posts E, of wood, connected at the upper part by cross-bars F, which support the bearings G of the crank-shaft.

The pestles are guided in their vertical motion by slides H, sliding on metallic rods I,

secured at their opposite ends to cross-pieces J and K. 35

The longitudinal trough is covered on the inside with a layer of sheet metal. The steeped grain is fed continuously into one end of this trough, and in its passage to the discharge-outlet at the other end it is submitted to the action of the pestles, which clean it and free it from the fine outside hull. The grain thus hulled then passes out from the box and is submitted to the action of a blower, and then of a cylindrical brush, both placed below the apparatus. 40 45

It is not indispensable to wet the grain for the purpose of hulling it; but if it is not wet the operation is longer. 50

I am aware that it is not new to combine reciprocating plungers or pestles with receptacles for decorticating grain. This, therefore, I do not claim; but

I claim as my invention— 55

The combination of the longitudinal trough adapted to receive the grain at one end and having an outlet at the other end, with a number of plungers adapted to work in said trough, and connecting-rods, crank-shaft, slides, and guide-rods above the trough, all substantially as and for the purpose set forth. 60

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

Witnesses: BOUCHER ULYSSE.

JOSEPH DELAG,
GEO. H. SCIDMORE.