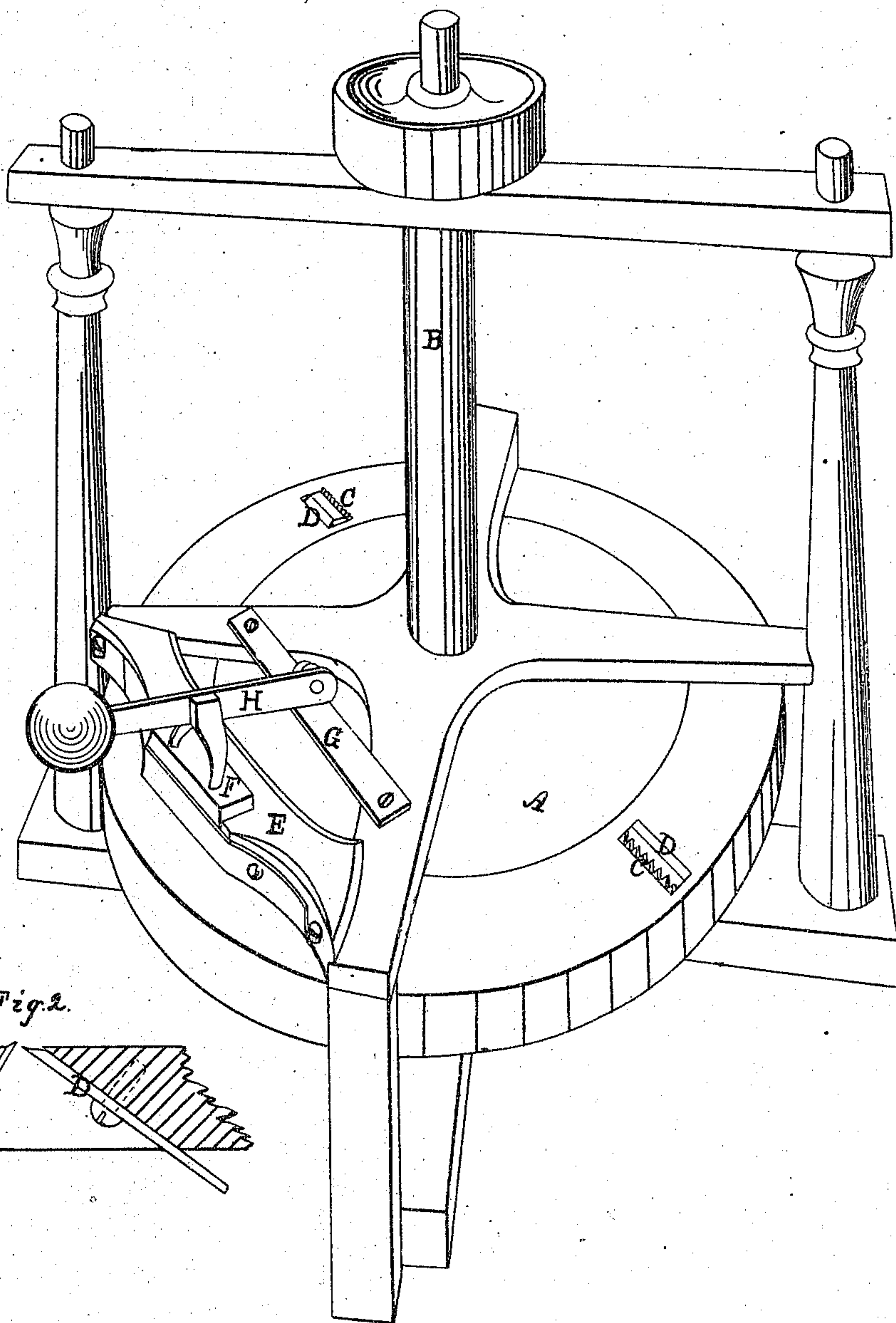


*G. Brooks & S. Clement,  
Manuf. of Excelsior.*

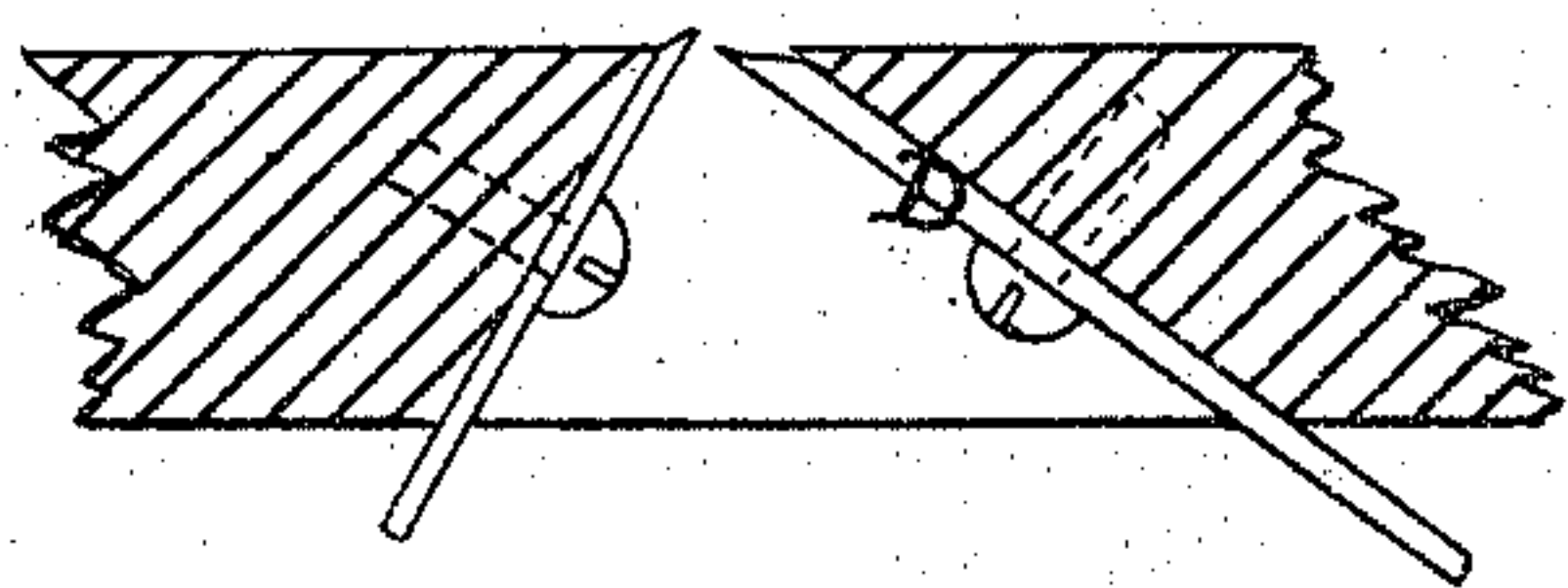
*Nº 75.728*

*Patented Mar. 24. 1868.*

*Fig. 1.*



*Fig. 2.*



*Witnesses.*

*Samuel Mills  
John H. Smartman*

*Inventor.*

*Geo Brooks  
Saml Clement  
Per Attorney  
Thos S. Sprague*



# United States Patent Office.

GEORGE BROOKS AND SAMUEL CLEMENT, OF DETROIT, MICHIGAN.

*Letters Patent No. 75,728, dated March 24, 1868.*

## IMPROVEMENT IN MACHINES FOR MAKING EXCELSIOR.

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

### TO WHOM IT MAY CONCERN:

Be it known that we, GEORGE BROOKS and SAMUEL CLEMENT, of the city of Detroit, in the county of Wayne, and State of Michigan, have invented a new and useful Improvement in Excelsior-Machines; and we do hereby declare that the following is a true and accurate description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, and being a part of this specification.

Figure 1 is a perspective view of my invention.

Figure 2 is a vertical sectional view of one of the cutters and spurs, upon the line *x x* in fig. 1.

The same letters indicate like parts in each figure.

The object of this invention is to construct a simple and inexpensive machine for manufacturing that article of commerce technically called "excelsior," for filling mattresses, cushions, &c., and by which the wood from which it is manufactured can be entirely used without waste.

In order to accomplish this object, we construct the wheel A of any suitable size, working upon a proper shaft, B, the wheel A to be run perpendicularly or horizontally, as may be deemed best. Within the rim of this wheel are proper openings for the insertion of the spurs C and plane-irons D, which fit the openings upon the opposite angling sides thereof. E is a brace attached to any suitable frame, and through which there is a proper-sized opening, to admit the bolt or block of wood F, to be cut up. G is another brace, to which is pivoted the lever H, by means of which the operator holds the block or bolt firmly against the face of the wheel, and the spurs and plane-irons. We use as many or as few of the openings, spurs, plane-irons, braces, and levers, as circumstances may require.

To operate our machine, power is communicated to the shaft by means of the pulley I. The block or bolts being prepared of proper lengths and sizes, are inserted into the opening through the brace, and held in position by the lever. As the wheel revolves, the spurs pass through the lower sides of the bolts or blocks, slitting it into narrow parts, after which the plane-iron cuts these narrow parts off into thin shavings.

What we claim as our invention, and desire to secure by Letters Patent, is—

The arrangement of the wheel A, shaft B, the spurs C, and plane-irons D, in their proper openings in the rim of the wheel, the braces E and G, and the lever H, when combined and operating substantially as and for the purposes herein set forth.

GEORGE BROOKS,  
SAM'L CLEMENT.

Witnesses:

SAMUEL WELLS,  
JOHN H. SWARTWOUT.