

## **Specification of Benjamin Goddard and William Finley : making pills, &c.;**

### **Contributors**

Goddard, Benjamin.  
Finley, William.

### **Publication/Creation**

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A.D. 1869, 31st JULY. N° 2306.

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S P E C I F I C A T I O N

OF

BENJAMIN GODDARD  
AND  
WILLIAM FINLEY.

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MAKING PILLS, &c.

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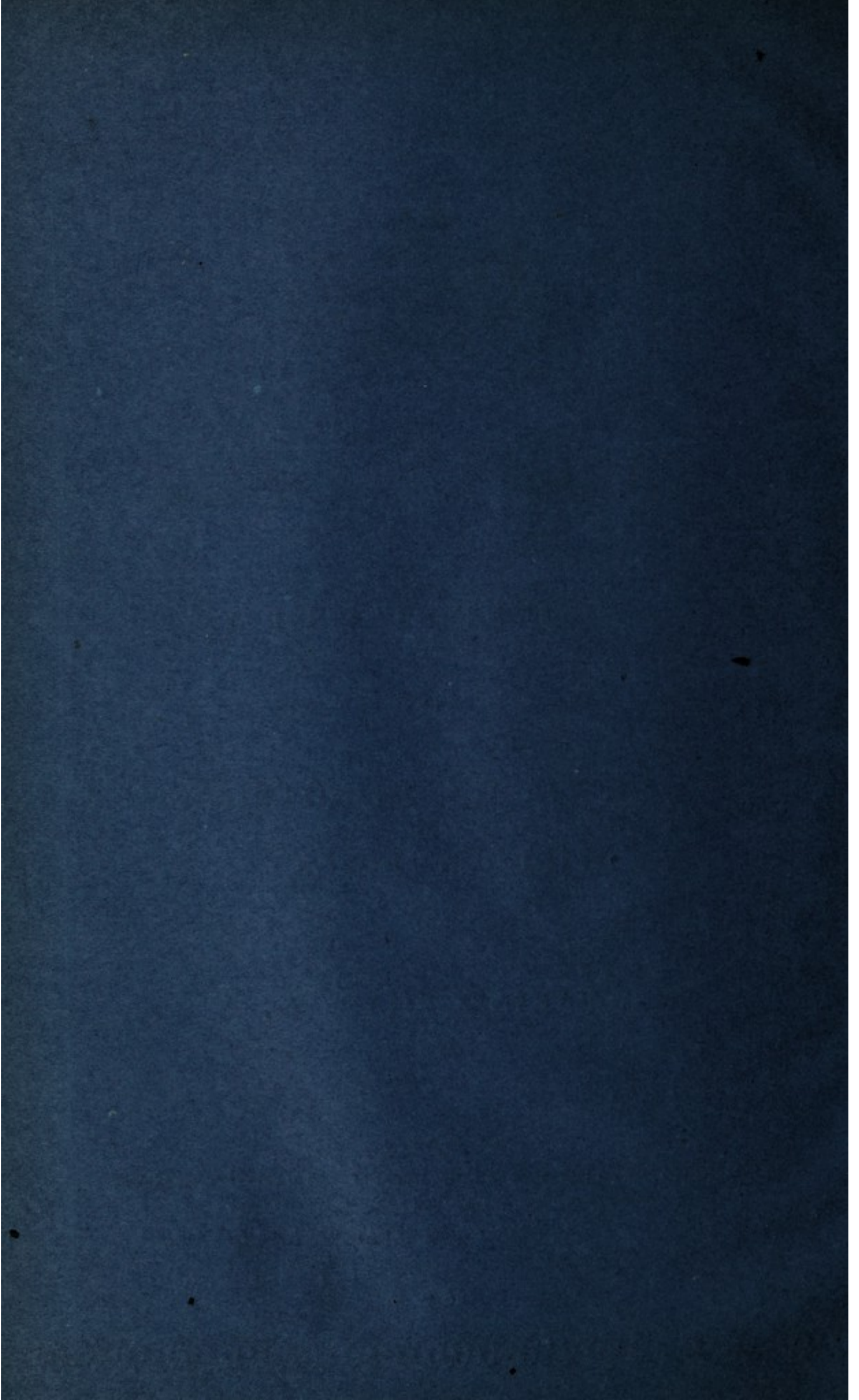
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**Making Pills, &c.**

*(This Invention received Provisional Protection only.)*

**PROVISIONAL SPECIFICATION** left by Benjamin Goddard and William Finley at the Office of the Commissioners of Patents, with their Petition, on the 31st July 1869.

We, **BENJAMIN GODDARD** and **WILLIAM FINLEY**, both of Stockport, 5 in the County of Cheshire, do hereby declare the nature of the said Invention for "**IMPROVEMENTS IN MACHINERY OR APPARATUS FOR MIXING SUBSTANCES FOR PILLS, OINTMENT AND OTHER PURPOSES, AND FOR MAKING PILLS AND GLOBULAR ARTICLES OF PLASTIC SUBSTANCES,**" to be as follows:—

In a convenient framework we place a cylinder, which has an opening 10 or entrance at the side or top, through this opening the ingredients from which the pills or ointments and other mixings are made, these are intermitted by the revolving of a shaft, to which shaft is attached knives, spikes, or beaters; parallel through the side of the cylinder are other knives, spikes, or beaters, thereby causing a contrary action, which 15 contrary action, together with the revolving of the shaft causes the ingredients to become intermixed with each other. The cylinder can also be made to revolve contrary to the shaft or to remain stationary, and by unscrewing the end of the cylinder and drawing out the shaft (at the end of the same is a piston that is of the same diameter as the cylinder)

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*Goddard & Finley's Improvements in Making Pills, Ointment, &c.*

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and thereby the pill, mass, or ointments, or other plastic substances is removed from the cylinder. The cylinder can be worked by hand or steam. To make pills or other globular bodies from plastic substances we place on the frame aforesaid a pair of tooth wheels which are driven by a handle or shaft, these wheels are connected to a shaft that has two 5 or more cranks. We also mount on the same frame a pair of rollers with longitudinal grooves about seven inches long more or less, the diameter of which is one inch and three-eighths more or less if required, to which is added the ordinary pinion gear, which is worked by a catch wheel with catch and lever connected to a small crank or eccentric, 10 thereby giving motion to the grooved rollers. The pill ingredients or other plastic substances are placed in a box above the grooved rollers, and as the grooved rollers revolve strings or rows are formed which fall on the surface of one of the plates, and by the plate or plates moving to and fro they are cut and rounded into pills or other globular forms. 15 The plates are mounted on the framework with grooves at right angles, which are connected to a pair or more cranks by means of two or more rods giving a to-and-fro motion to the plates. One or both may move or one can remain stationary.

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