

(No Model.)

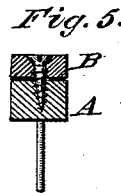
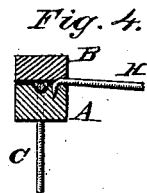
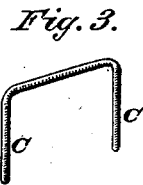
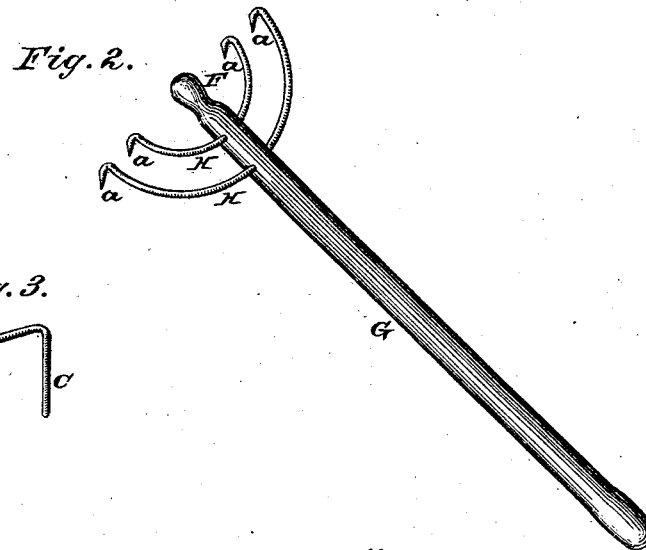
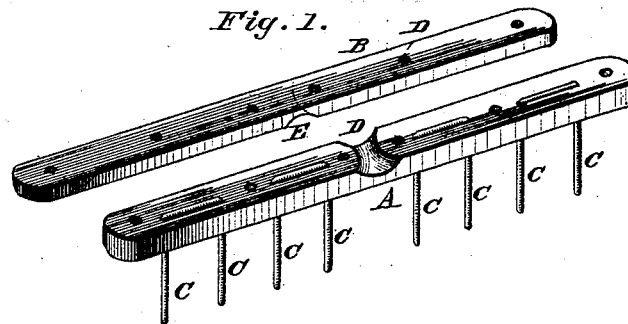
2 Sheets—Sheet 1.

J. J. JOHNSTON.

GARDEN RAKE.

No. 265,820.

Patented Oct. 10, 1882.



WITNESSES

*Wm. L. Dieterich*  
*P. C. Dieterich*

INVENTOR

*James J. Johnston*

(No Model.)

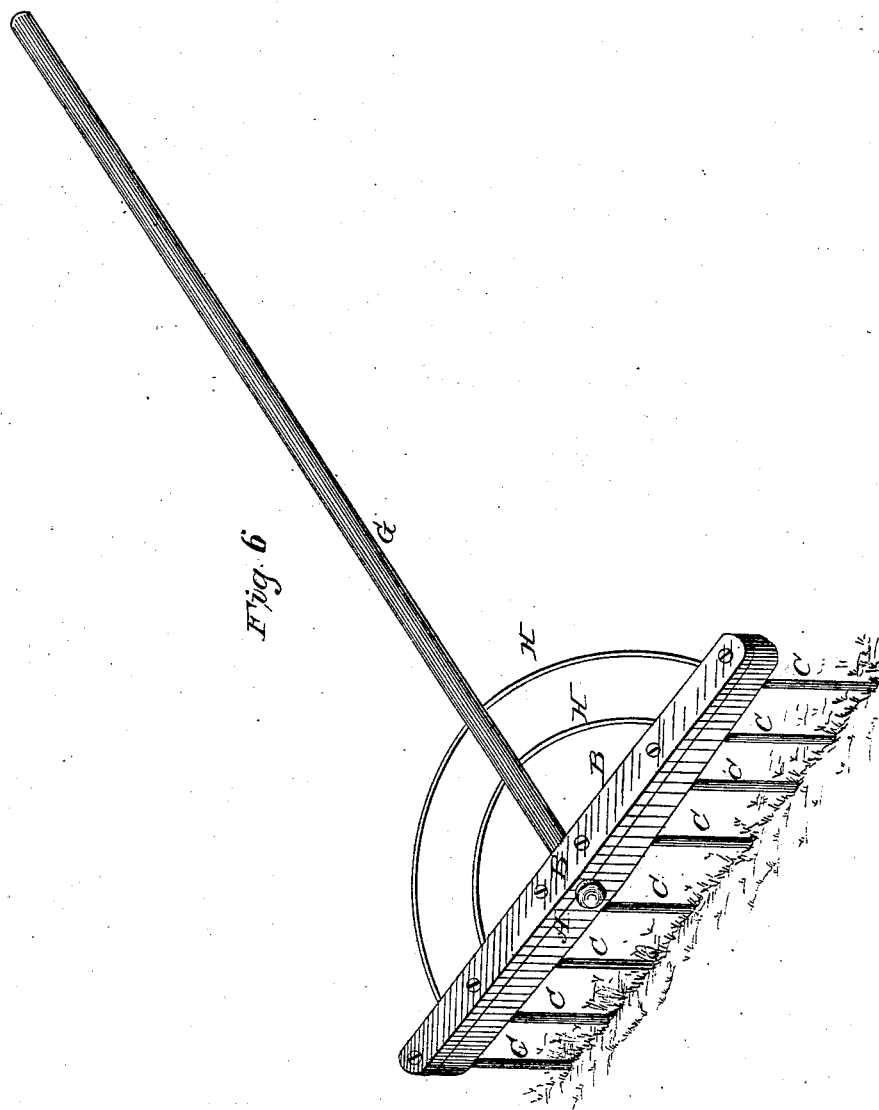
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WITNESSES

*Wm. L. Dieterich*  
*Albert E. Dieterich*

INVENTOR

*James J. Johnston*

# UNITED STATES PATENT OFFICE.

JAMES J. JOHNSTON, OF COLUMBIANA, OHIO, ASSIGNOR TO THE UNITED STATES IMPROVEMENT COMPANY, (LIMITED,) OF SAME PLACE.

## GARDEN-RAKE.

SPECIFICATION forming part of Letters Patent No. 265,820, dated October 10, 1882.

Application filed February 11, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES J. JOHNSTON, of Columbiana, in the county of Columbiana and State of Ohio, have invented a certain new and useful Improvement in Garden-Rakes; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

My invention relates to an improvement in garden-rakes; and it consists in making the rake-head in two parts and the teeth from rods of iron or steel in pairs from a single piece and fitting them in openings and recesses in the under part of the rake-head, and furnishing the ends of the braces of the handle with sharp hook-points for driving into said under part, and the handle near its end contracted in its diameter, forming a recess around it, which is fitted to a recess in the two parts of the rake-head, said two parts being attached together for the purpose of securing said handle, its braces, and the rake-teeth in a fixed position in and to the rake-head, as will hereinafter more fully and at large appear.

To enable others skilled in the art with which my invention is most nearly connected to make and use the same, I will proceed to describe its construction and operation.

In the accompanying drawings, which form part of my specification, Figure 1 is a perspective view of the upper and lower parts of the rake-head, the latter having rake-teeth placed therein. Fig. 2 represents the rake-handle and its braces in perspective. Fig. 3 is a perspective view of a pair of the rake-teeth. Figs. 4 and 5 are transverse sections of the rake-head. Fig. 6 is a perspective view of the rake when finished.

Reference being had to the accompanying drawings, A represents the lower part of the rake-head, and B the upper part of it, the former furnished with openings and recesses for the rake-teeth C, which are constructed in pairs from a single rod of iron or steel bent

into the form represented in Fig. 3. The parts A and B are furnished with openings for wood-screws for securing said parts together, and also with recesses D and E, adapted to receive the contracted part F of the handle G, which is furnished with braces H, the ends of which are provided with pointed hooks *a*, which are driven into the part A of the rake-head, as shown in Fig. 4. The points of the teeth are partially rounded by any suitable means, and should be constructed of rods of polished iron or steel. The handle, with the part F placed in the recess D of the part A of the rake-head and the hook-points driven into said part, as indicated in Fig. 4, and the teeth placed in said part, as shown in Fig. 1, the part B is then placed on part A, and the two parts secured together by wood-screws, as shown in Figs. 5 and 6, which completes the construction of the rake.

By constructing a garden-rake as hereinbefore described all liability of the teeth, handle, and braces becoming detached from the rake-head will be entirely avoided.

The rake hereinbefore described can be manufactured with great facility and at small cost.

Having thus described my improvement, what I claim is—

In a garden-rake, the combination of the head constructed in two parts, A and B, the part A having recesses for the teeth C, said teeth being made in pairs from a single piece of iron or steel, the part A having also a recess for the handle G, which is reduced in diameter at F, so as to fit therein, and the braces H, provided with points *a*, the said teeth C, handle G, and braces H being firmly secured to the rake-head by the uniting of the two parts A and B, all substantially as described and shown, for the purpose specified.

JAMES J. JOHNSTON.

Witnesses:

A. C. JOHNSTON,  
T. D. D. OURAND.