No. 701,512. Patented June 3, 1902.

# J. SCOTT.

## ROTARY CULTIVATOR.

(Application filed Jan. 7, 1902.)

(No Model.)

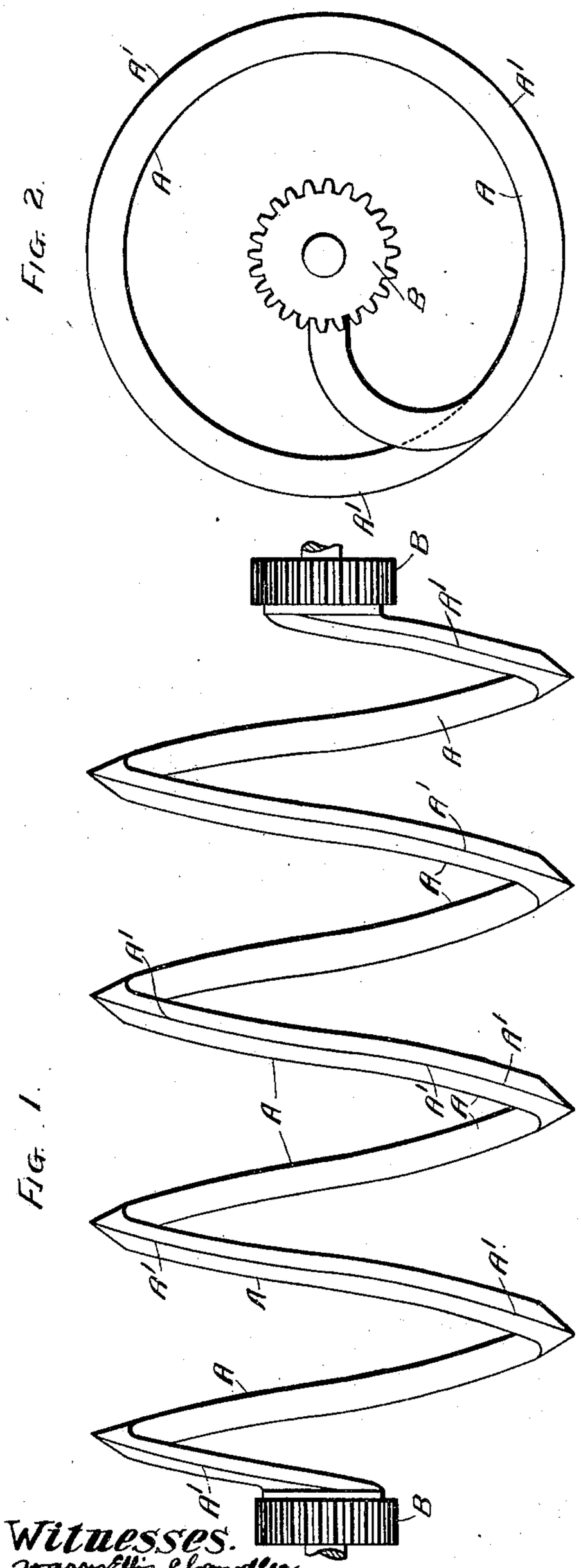


FIG. 1.




FIG. 2.

Witnesses.
Harry Ellis Chandlee
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# UNITED STATES PATENT OFFICE.

JOHN SCOTT, OF EDINBURGH, SCOTLAND.

## ROTARY CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 701,512, dated June 3, 1902.

Application filed January 7, 1902. Serial No. 88,793. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN SCOTT, a citizen of the United Kingdom of Great Britain and Ireland, residing at 37 Willowbrae avenue, Edinburgh, Scotland, have invented a certain new and useful Rotary Cultivator, (for which application for patent has been made in Great Britain, No. 4,274, dated February 28, 1901,) of which the following is a specification.

This invention relates to rotary cultivators of the kind described in the specification of British Letters Patent, No. 29,997 of 1897, in which the operating mechanism and cutters are carried by a motor-vehicle; and it has for its object to provide cutters of improved construction and better adapted to break up the soil.

The invention is illustrated by the accompanying drawings, in which—

Figures 1 and 2 are respectively longitudinal and end elevations of the improved cultivating-tool.

In Fig. 1 of the drawings the improved cultivating tool or cutter is composed of an open helix or helical blade A, made in the form of a helical spring, but of great strength and rigidity and having a sharp peripheral cutting edge A′, adapted to readily enter and cut through the soil. The helical cutter A, which is placed transversely or at an inclination to the line of forward movement of the motor-cultivator, can be raised or lowered in its bearings, and it is fitted with a sprocket-wheel, or, as shown, with a pinion B, at either end by means of which it is driven by suitable gearing from the motor-shaft.

It will be noted that the stub-shafts at the ends of the blade are provided with gear-wheels through the medium of which the blade may be rotated and that the convolutions are unsupported intermediate of the stub-shafts, so that they may yield longitudinally of the helix and fracture will be prevented.

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

A cultivator-blade consisting of a bar bent to form an open helix having stub-shafts at its ends and having driving elements at its ends, the convolutions of the helix having their edges sharpened and said convolutions being unsupported excepting at the ends of the helix save by the adjacent convolutions.

In witness whereof I have hereunto set my hand in presence of two witnesses.

JOHN SCOTT.

Witnesses:

WALLACE FAIRWEATHER,

JNO. ARMSTRONG, Jr.