June 16, 1931. J. H. COOK 1,810,463

ANCHOR STAPLE FOR MULCHING PAPER

Filed June 17, 1929

Fig. 1.

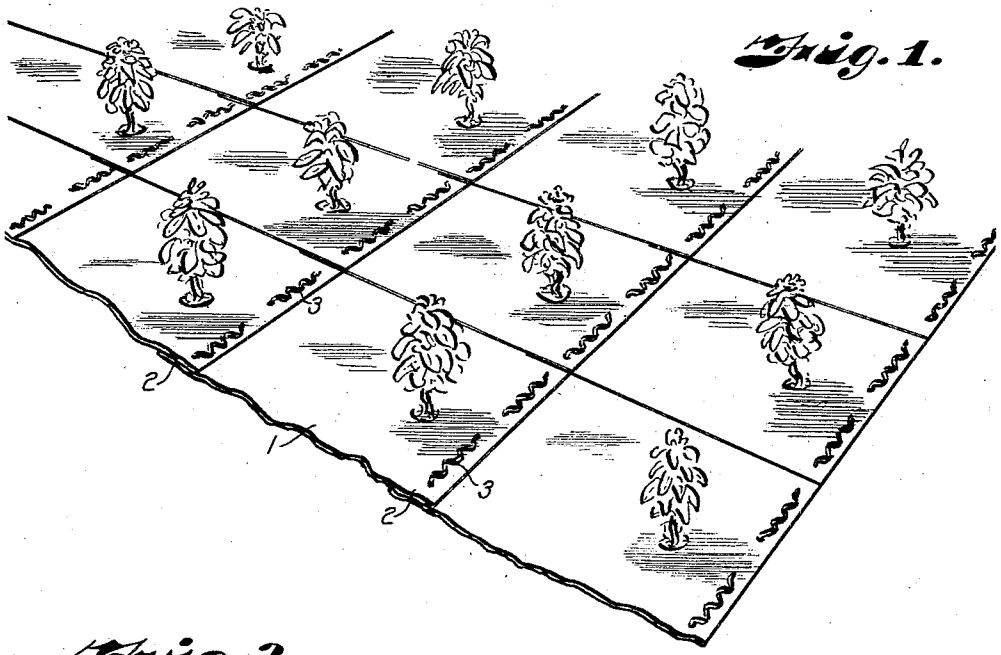


Fig. 2.

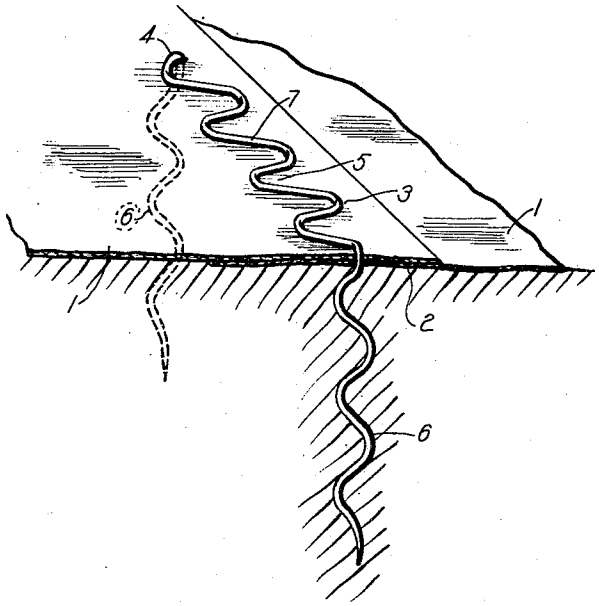
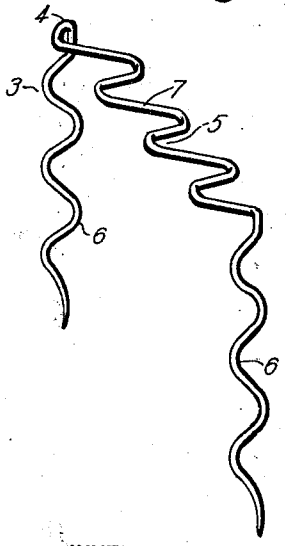


Fig. 3.



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UNITED STATES PATENT OFFICE

JAMES H. COOK, OF TULSA, OKLAHOMA

ANCHOR STAPLE FOR MULCHING PAPER

Application filed June 17, 1929. Serial No. 371,445.

My invention relates to anchoring staples and more particularly to a device of that character for anchoring mulching paper to the ground; the principal object of the invention being to securely attach the paper to the ground and reinforce the paper by the attaching means.

In accomplishing this object I have provided improved details of structure, the preferred form of which is illustrated in the accompanying drawings, wherein:

Fig. 1 is a perspective view of mulching paper sheets secured to the ground by staples of my improved construction.

Fig. 2 is a perspective view of one of the staples showing its assembled relation with the mulching paper and its anchorage in the ground.

Fig. 3 is a detail perspective view of the staple.

Referring in detail to the drawings:

1 designates mulching paper sheets arranged to cover the surface of the ground around growing plants and herein shown having overlapped edges 2 bound together and secured to the ground by the staple 3.

Each staple 3 comprises a single piece of wire 4 having convolutions 5 throughout its length and bent to provide spaced anchor legs 6 at opposite ends and at right angles to a central body portion 7 adapted to lie flat on the mulching sheets when the legs 6 are projected through the sheets and into the ground.

In manufacturing the staples, straight wire of desired thickness or gauge is passed through a forming machine whereby convolutions or corrugations of desired spacing and width are formed, after which the corrugated wire is cut up into strips of desired length, and the end portions of the strips may be pointed and bent at right angles to form the anchor legs.

In using the staples the anchor legs are inserted through the mulching sheets and into the ground, the convolutions serving to secure the legs in the ground and to cover a comparatively large surface on the sheets for reinforcing the paper, thereby preventing displacement and damaging of the paper by wind.

While the staple is shown applied through the overlapped edges of mulching sheets, it is obvious that the staples will be equally sufficient for securing separated sheets to the ground.

What I claim and desire to secure by Letters Patent is:

1. A staple of the character described comprising a single piece of corrugated wire having a flat body portion and leg portions extending at right angles to the body portion.

2. A staple of the character described comprising a single piece of wire having corrugations throughout its length and bent to provide a flat body portion, and leg portions extending at right angles from opposite ends of the body portion.

3. A staple of the character described comprising a single piece of corrugated wire having a body portion constituting a level reinforcement strip, and end portions at right angles to the body portion and constituting anchor legs.

4. A staple of the character described comprising a single piece of corrugated wire having a level body portion and angularly disposed anchor legs.

5. A staple of the character described comprising a single piece of wire including a level body portion bent to form relatively large corrugations, and angularly disposed anchor legs bent to form smaller corrugations.

6. A staple of the character described comprising a single piece of wire including a level body portion bent to form relatively large corrugations, and leg portions bent into smaller corrugations extending at right angles from opposite ends of the body portion.

7. A staple of the character described comprising a single piece of wire including a level body portion bent to form relatively wide and short corrugations, and angularly disposed legs bent to form relatively narrow and long corrugations.

In testimony whereof I affix my signature.

JAMES H. COOK.