(12) **United States Patent**
L' Hommedieu

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(54) **AUGER, SINGLE TWIST**

(76) Inventor: **Ezra L' Hommedieu**

Egra L. Hommedieu & Citiz of.

Letters Patent.

The Schedule referred to in these Letters Patent and making part of the same, containing a description in the words of the said Egra L. Hommedieu, himself of his improvement in the making the Single Twist Auger.

To all to whom these presents shall come.

Be it known that I Egra L. Hommedieu of Say Brook in the County of Middlesex & State of Connecticut have invented a new and useful improvement in the Operation of making the single twist Auger & in the Machinery for making the same & that the following is a full and exact description of the same as invented or improved by me, Viz; a rod or bar of iron or steel of sufficient length & size for the shank & twist, for the auger desired with a cap knob of steel on the end intended for the bit or lip & worm of the auger is put between two rollers & by means of a channel in one roller & a follower in the other is formed into a triangular shape as far as is wanted for the twist. The bit or lip & worm (if a worm is desired) are then shaped by two dyes with dies on opposite sides, a short turn is then given to the rod near the lip or bit in a direction proper for the commencement of the twist. The rod at the lip is then interlocked upon the end of the Mould or Spiral cylinder hereafter described & thereby giving the mould a rotatory progressive motion while the rod is pressed into the cavity of the Mould by an iron or other Metalic roller placed beneath the mould. The rod is then wound in a spiral form to any length desired. Oil or tallow is then spread on the work with a brush or otherwise. The mould is then turned in a reverse order & the instrument is disengaged from the

mould

mould. The shank is then put in the line of the twist & the auger is ready to be finished in the ordinary mode by grinding filing & polishing. The mould is a spiral cavity of the dimensions proper for the auger to be made, passing round near the end of a cylindrical bar of iron or other metalic substance of from one to two inches in diameter, according to the size of the auger to be made & from 2 to 3 feet in length supported by two iron stands or posts thro which the cylinder passes & a spiral thread upon the cylinder, where it passes thro. one of the posts fitting a spiral cavity in the interior of the post, engages the progressive motion of the mould according to its rotatory motion. The operation of making the twist by grinding & the Mould & Machinery applied for that purpose are what I claim to have invented & for which a Patent is solicited. The only mode of making this kind of augers previous to my invention, being by dredging out the spiral turns with dies from a round piece of iron in the form of a bolt

Sworn Witnesses
Eby Harris
Joshua S Hommedieu

Ezra S^r Hommedieu