106. COMPOSITIONS, COATING OR PLASTIC.

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UNITED STATES PATENT OFFICE.

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FIBROUS COMPOSITION OF MATTER.

No Drawing.

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This invention relates to compositions of matter, and has for an object the provision of a composition which is suitable for the filling of cavities in trees, for insulating ma-5 terial, or for floors and other purposes.

vide a filling material for trees which will the asphalt, coal tar, etc., not only serve as a be light in weight, flexible, adhesive, quick preservative, but also adds to the adhesive setting, fireproof, and strong.

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- under many conditions is objectionable.

- land cement, sand or other cheap material; proof partitions, and for other uses. a preservative such as asphalt, coal tar, oil
- asphalt and asbestos put on over the surface of the composition after same has hardened

35 in the cavity; and re-enforcing consisting of in the appended claims. iron rods, bolts, wire, rope, or other ma-terial (used only in large cavities).

The composition more or less specifically Patent:

- of the filler and the fibrous material); glass.
- be worked readily but will hold its shape). cement, asphalt, and water glass. All of the ingredients excepting the water glass may be mixed up dry and cold in any which contains sawdust, asbestos, Portland
- ing same.

The fiber in the composition adds to the 55 tensile strength, flexibility, endurance, and fire-proof qualities of the composition. The Portland cement or sand gives the composi-tion more body, makes it homogeneous in Another object of this invention is to pro-\ texture, and provides a better surface, while 60 and elastic qualities. The water glass acts For many years concrete made of Port-land cement, sand, and gravel has been used in tree surgery for the filling of cavities. This material has several serious drawbacks 1.11s material has several serious drawbacks portland cement, sand, asphalt, and asbestos in that it is nonflexible and brittle so that
15 it must be put into the cavity in sections; from the composition without seriously reit is not adhesive so that an air space is ducing its valuable qualities. The fibrous 70 material can be eliminated at a sacrifice of the tree, making possible the entrance of moisture, which in turn causes decay. It canmoisture, which is the section of the specified in cold weather as it will freeze material can be estimated in turn causes decay. It canmoisture, which is the section of the specified in cold weather as it will freeze material can be estimated in turn causes decay. It canmoisture, which is the section of the specified in cold weather as it will freeze material can be estimated in turn causes decay. It canmoisture, which is the section of the specified in cold weather as it will freeze material can be estimated in turn causes decay. It canmoisture is the section is essentially valuable in the specified in cold weather as it will freeze material can be caused by the specified in turn causes decay.

and spoil its setting qualities, and its weight tree surgery for filling cavities in trees, in 75 which use it is flexible, strong, hard, water My improved composition consists of a proof, and serves as a preservative for the filler such as sawdust, wood flour or ground tree to prevent decay. It is also valuable 25 cork, or other finely divided vegetable for use as a flooring in dairy farms in place matter; a fiber such as asbestos, hair, or of cork, and may be used to advantage for so other fibrous material; a base such as Port-making heat insulating, sound proof and fire

While the composition described repre-30 or the like; a binder preferably of water sents a practical embodiment of my inven-glass having the consistency of molasses; tion, I do not limit myself precisely to the water-proofing consisting of a coating of details described, since manifestly the same tion, I do not limit myself precisely to the 85 details described, since manifestly to the can be considerably varied without departing from the spirit of the invention as defined

Having thus described my invention, I 90 claim as new and desire to secure by Letters

consists of <u>sawdust</u>, 4 to 16 parts; <u>asbestos</u>, 1. A flexible plastic composition of matter 40 1 part; <u>Portland coment</u>, (a small quan-which contains finely divided cellulosic tity); <u>asphalt or tar</u>, (sufficient to thor-matter, non-vegetable fibrous material, Port- 95 oughly saturate and coat all the particles land cement, sand, a preservative, and water

water glass, (sufficient to make the compo-45 sition into a plastic, sticky mass which can which contains sawdust, asbestos, Portland

3. A flexible plastic composition of matter order, and the water glass is mixed with cement, bituminous matter, and water glass. 50 the composition immediately before apply-

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