

UNITED STATES PATENT OFFICE.

ENOS AGUSTUS BRONSON, OF WYMORE, NEBRASKA.

COMPOUND FOR COATING AND FINISHING WALLS.

SPECIFICATION forming part of Letters Patent No. 346,143, dated July 27, 1886.

Application filed May 11, 1886. Serial No. 201,862. (No specimens.)

To all whom it may concern:

Be it known that I, ENOS AGUSTUS BRONSON, a citizen of the United States, residing at Wymore, in the county of Gage and State of Nebraska, have invented a new and useful Improvement in Compounds for Coating and Finishing Walls, of which the following is a specification.

My invention relates to a composition of matter for coating and finishing walls; and it consists of the several ingredients compounded in the manner and proportions hereinafter fully set forth.

The object of my invention is to provide a composition for coating and finishing walls which shall be entirely free from lime and will not shrink, crack, or expand, and which can be applied to any character of groundwork of the wall or other surface which it is desired to finish, without regard to the state of the weather or the condition of the groundwork or wall.

I have discovered that by the use of my invention a wall or ceiling is rendered rat and vermin proof, and the particles thereof adhere so closely together that it is impossible for them to cut or gnaw through the wall, and my compound is proof against moisture and frost, and is unaffected by the same, thus increasing its strength and durability.

My compound consists of the following ingredients, in substantially the proportions hereinafter specified, to wit: a vehicle of plaster-of-paris, three-sixths; sand, two-sixths; Spanish whiting or Keene's cement, one-sixth; glue, four or five quarts; marble-dust, two quarts.

In preparing my compound for use I take three-sixths of a part of common plaster-of-paris, to use it for a body or vehicle, and mix therewith two-sixths of the compound of fine white sand, one-sixth of whiting or Keene's cement and marble-dust. All of these ingredients are in a dry and thoroughly pulverized or ground state, and the proper quantity of glue, in a semi-fluid state, is then poured into the mass, after which the several ingredients are intimately commingled and mixed together by agitation, sufficient water being added to make the compound or mixture plastic, so that it can be readily applied to a wall or ceiling, or groundwork of common plaster on the wall

or ceiling. The glue serves to hold the material from setting, and the admixture of marble-dust to the compound gives the white and attractive appearance thereto. In lieu of using the marble-dust and the whiting, Keene's cement in sufficient quantity may be substituted therefor in proportion equal to the combined quantity of the whiting and marble-dust.

In applying my compound to the wall or ceiling a groundwork or base of plaster-of-paris, sand, whiting, and glue is first applied with a float and allowed to set. Then, to finish off or face up with, dental plaster, mixed in the same proportion as the base with sand, glue, marble-dust, and Keene's cement, is used to give a neat and attractive appearance.

My improved compound can be readily applied, and will adhere to common mortar or other groundwork of a wall, and when it is applied to wire lathing it renders the inside of a building or structure fire-proof.

The exact proportions and quantities of the ingredients will be varied or changed according to the state or the condition of the walls upon which it is to be applied and the quality of the sand used.

The proportions of the plaster-of-paris, glue, marble-dust, and whiting or Keene's cement herein specified sufficient to finish one hundred yards of surface is five-sixths of a barrel of plaster-of-paris, (common,) one-sixth of a barrel of plaster-of-paris, (dental,) one-eighth yard of sand, forty pounds of whiting or Keene's cement, and three pounds white glue.

My improved compound is a very durable and hard finish, is proof against and will withstand the action of moisture and frost, can be readily applied to a wall regardless of its condition and the state of the weather, will not crack, swell, chip, or shrink, can be cleansed with brush and water without damaging or defacing the surface of the wall, and can be executed upon stucco groundwork, so that rats or other vermin cannot penetrate the wall which it is applied.

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

1. The herein-described composition of matter for finishing walls or ceilings, consisting of a vehicle of plaster-of-paris, sand, glue, whit-

ing or Keene's cement, and, if desired, a suitable coloring-matter, substantially as set forth.

2. The herein-described composition of matter for coating and finishing walls, consisting of a suitable vehicle of plaster-of-paris, sand, glue, Spanish whiting or Keene's cement, and marble-dust, in substantially the proportions specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

ENOS AGUSTUS BRONSON.

Witnesses:

JOHN W. PAGE,

E. E. SANFORD.