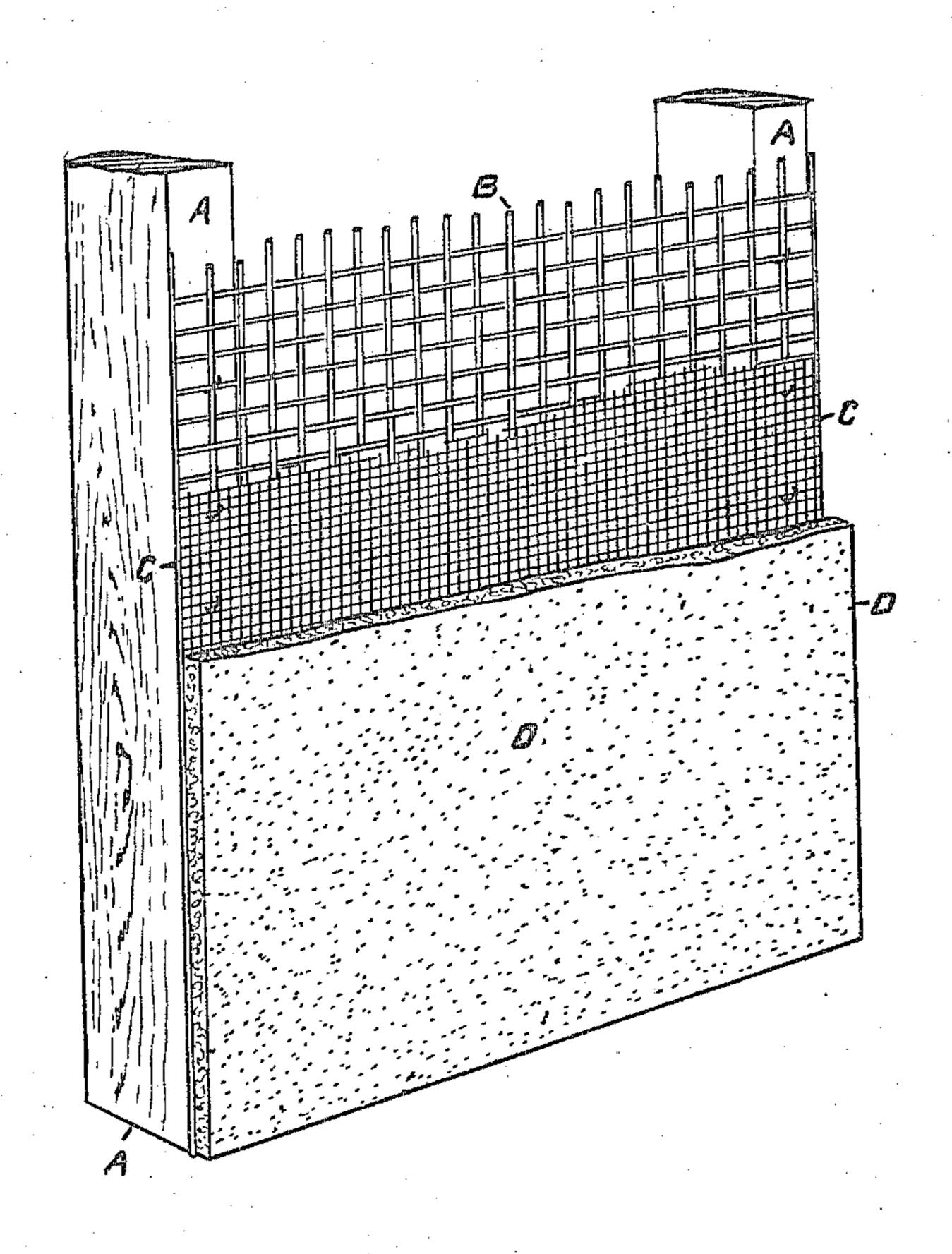
(No Model.)

E. C. MORRIS.

COMPOUND PLASTIC AND WIRE NETTING LINING OR FINISHING FOR PARTITIONS.

No. 344,670.

Patented June 29, 1886.



WITNESSES: H. C. Bellows. H. Fr. H. Keener Edward & Morris by his attys Brown Bros.

UNITED STATES PATENT OFFICE.

EDWARD, C. MORRIS, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO MORRIS & TRELAND, OF SAME PLACE.

COMPOUND PLASTIC AND WIRE-NETTING LINING OR FINISHING FOR PARTITIONS."

SPECIFICATION forming part of Letters Patent No. 344,670, dated June 29, 1886.

Application filed April 14, 1886. Serial No. 198,851 (No model)

To all whom it may concern:

Be it known that I, EDWARD C. MORRIS, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Compound Plastic and Wire-Netting Lining or Finish for Partitions, Walls, Ceilings, &c., of which the following is

a full, clear, and exact description.

As well known, a compound finish or lining to for walls, partitions, ceilings, &c., of buildings, &c, has been used consisting of a backing made of wire netting of sufficient strength and a somewhat open mesh, and a covering thereto composed of a layer of plastic material—such 15 as ordinary lime plaster—and which is applied and forced through the interstices thereof, and thereby keyed, as it were, and secured to and about the wires of the netting, the netting being first secured in place, and then the plastic 20 material applied to it and properly smoothed and evened off, all as well known. In the practice of this mode of constructing a finish or lining to walls, &c., of buildings, it has dering or preventing the disposition of a proper been found that a greater proportion of the amount of the plastic material about the metal 25 plastic material enters into and through the supporting part of the compound backing for 75 meshes of the wire-netting and to the back the plastic material, all substantially as hereside thereof than is really or for any practical inafter fully described. purpose or utility necessary to accomplish the | In the accompanying drawings, forming a keying of the plastic material to the wire-net-, part of this specification, one form of carryand useless waste of plastic material is had, lighte is a sectional perspective view of the which obviously it is desirable to avoid, pro- portion of the studding of a wall lined or violat, of course, that by so avoiding it the sup- | finished in accordance with this invention. port for the plaster is in no practical degree [35 uffected or expense in other directions made metting of wire. C is a netting of fibrous 85 which would counterbalance or more than strands or threads, and D is a layer of plastic

40 avoid waste of the plantic material, as above seribed in the schedule annexed to the Letters 90' Stated, and without practically increasing the Patent of the United States assued to Henry expense of the compound lining or Jinish, or W. Merritt, of Boston, Wassachusetts, dated in any way detracting from the advantage July 14,71885, No. 322,307. The wire-netting thereof as a whole; and to that end this in B is fastened to the studding A by nails or 45 vention consists in the combination, with the lotherwise in any suitable manner, and the 95 v.ro-logiting or with a perforated plate of fibrons netting C is applied to and so as to cov-

the employment of a material such as vegetable or animal fiber, and as, for illustration, strands or threads—vegetable or animal woven or intertwined either with the wires making the meshes of the wire-netting or with 55 each other in a separate netting or nettings, and applied and secured or held to either one or both sides of the wire netting or perforated paper-pulp board, and the whole so as to make a backing for the plastic material in two parts, 6). each part performing a distinct function, the one—that is, the wires of the wire-netting or the metal about the perforations of the perforated plate—the function of a practical support to the plastic material by the keying of 65 the same thereto, and the other, as before stated, the function of a regulator or limit to the extent to which the plastic material can pass through the meshes of the wire netting or perforations of the metal plate, and at and 70 about and to the back of them, while at the same time in no practical way or manner hin-

30 ting, and thus to that extent an immecessary ring out this invention is illustrated, and the So

In the drawings, A is the studding. B is a counterbalance the advantage or economy then material, which may be ordinary lime plaster for other suitable material, but preferably as The primary object of this invention is to plastic material or compound such as demetal, of another series of meshes or perform | erathe outer or exposed side of the wire-nettions of reduced area as compared with the ting, and made to adhere thereto by means of lacshes of the wire-netting or perforations of silicate of soda, paraffine, or other suitable ad-57 the perforated plate which are produced from I hesive material, or in any other suitable man- 100

ner. The plastic material D is applied to the outer or exposed side of the fibrous netting, and as so applied forced into and through its meshes, and thence into and through the 5 meshes of the wire-netting, and at and about the strands of the fibrous netting and the wires of the wire-netting and the whole, so as to secure a practical keying, as it were, of the plastic material to the wire-netting, the fibrous 10 netting affording no hinderance thereto, it being not only flexible and pliable, but compressible. As wire is expensive, for purposes of economy, which is quite necessary in the use of it, to make a compound wire-netting 15 and plastic compound lining or finish, the meshes of its netting are made quite open and large in area, and, as is plain, the plastic compound in its application thereto, if not otherwise obstructed, as it is in the combination of 20 this invention, and as will hereinafter appear, is allowed most free passage through them and to the back of the netting, resulting, finally, in the placing of a considerable amount of it at the back of the wire-netting, where it 25 is of no practical use, except so much thereof as is requisite to key it to and about the wires of the wire-netting. In this manner much of the plastic compound is wasted—that is, more is used than is of any practical benefit or 30 utility; but if, by avoiding such waste of the plastic material, the meshes of the wire-netting are made smaller in area by using more wire, resulting in a saving of the plastic material, an expense is added to the lining or finish in an-35 other direction more to the disadvantage thereof for its practical employment than the use of a wire-netting having the larger and more open meshes, accompanied as it is by a practically useless consumption of the plastic material. 40 The meshes of the fibrous netting as compared with those of the wire-netting are small in size and area, and, again, being such, they cross the meshes of the wire-netting, and thus, as it were, reduce them to a corresponding size, 45 and, as is plain, in a manner that while practically adding but slightly to the expense or cost of a compound lining or finish of wirenetting and a plastic material, the meshes of the wire-netting are in a nature made impedi-50 ments or obstructions to the passage of the plastic material through them to an extent as to practically prevent the placing of the plastic material through the meshes of the wirenetting and to the back thereof to an extent 55 beyond what is necessary or requisite for the desired fastening by keying of the plastic material to the wire of the wire-netting. This result or saving of the plastic material, plainly with the use of a fibrous netting, is secured in K. E. Br

a most economical way, and one that leaves 60 the plastic material on the wires for all practical purposes as closely and effectively as if the fibrous netting were not used.

Fibrous netting may be placed against and secured to the inside of the wire netting or 65 against and secured to both the inside and outside of the wire-netting; but it is preferable to apply it to the outside, as has been described, or otherwise in any suitable manner. Again, the librous netting, in lieu of being in a sheet separate from the wire-netting, as has. been described, may be in the same sheet therewith—as, for instance, the wires and meshes of the wire netting may be crossed and intertwined with strands, animal or vegetable. 75 Again, for the fibrous netting, a netting of animal's hair or animal fibers may be substituted, as also a sheet of pulp fibers, perforated through its thickness, and for the wire netting a perforated metal plate may be used. A wire 80 netting, however, as well, also, as a fibrous netting, is most preferable, and a combination and arrangement of them such as described.

The plastic compound patented to a Mr. Merritt, as herein referred to, is the plastic 85 compound, as before stated, most preferable to be used; but it is not intended to limit the invention thereto, and for a description of said compound reference is hereby had to the Letters Patent thereon before mentioned.

Having thus described my invention, I

claim— 1. A lining or finish for walls, ceilings, partitions, &c., of buildings, composed of a backing in part made of metal, such as wire-net- 95 ting with meshes or a plate with perforations, and in part of fibers, animal or vegetable, in

the form of a netting with meshes or perforations in reduction of the area of said metal' meshes or perforations, in combination with a 100 plastic material applied to said backing, substantially as described, for the purpose speci-

2. A lining or finish for walls, ceilings, partitions, &c., of buildings, composed of a back- 105 ing in one layer of wire-netting with meshes, and in another and separate layer of fibrous netting with meshes, applied together in combination with a plastic material applied to said backing, substantially as described, for 110. the purpose specified.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

EDWARD C. MORRIS.

Witnesses: ALBERT W. BROWN, K. E. Bellows.

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