O. P. CADMUS.

PLY WOOD.

FILED MAY 26, 1921.

Fig.L.

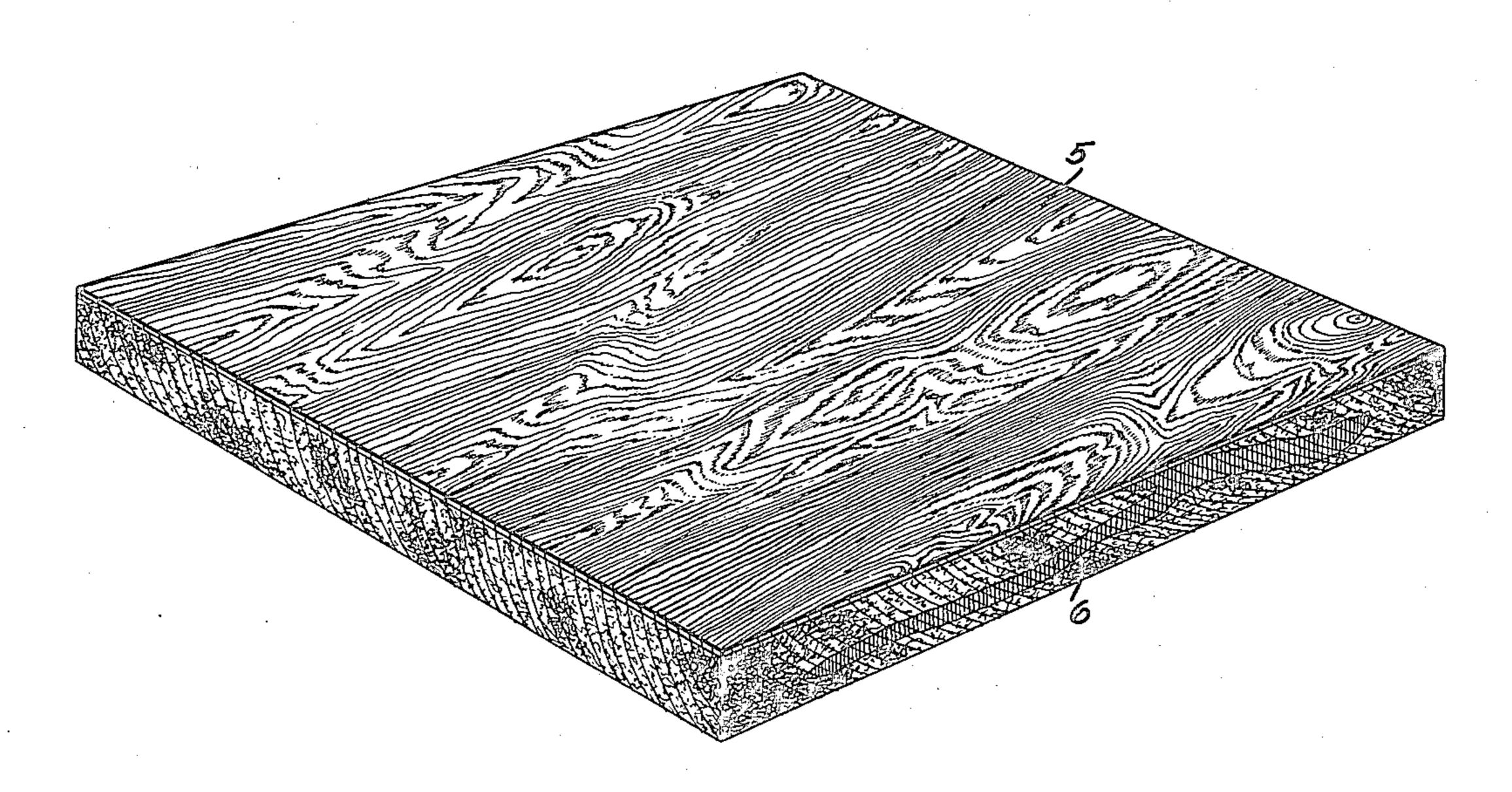
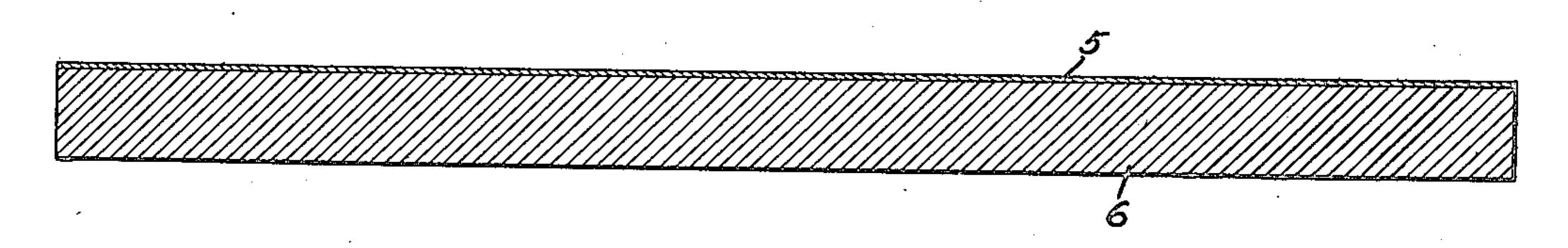


Fig. 2.



Haute J. Saggiani.

OSCAR P. CADMUS

BY MANNE OF

STATES PATENT

OSCAR P. CADMUS, OF BAYSIDE, NEW YORK.

PLY WOOD.

Application filed May 26, 1921. Serial No. 472,764.

To all whom it may concern:

lowing is a full, clear, and exact descrip- to a fire proofing process. tion.

10 it is advisable to utilize fire proofed ma- base of the body. This layer is cut to the 15 present a pleasing appearance.

Although wood is capable of being treated means of high pressure so as to thoroughly 70 by any number of well-known processes to impregnate the same. render it fire-resisting, it is well understood that this treatment results in an impreg-20 nation of the fibres and grain of the wood with a fluid which will virtually destroy any artistic effect which may be desired.

which the panels or other objects may be provided which will incorporate fire-resisting qualities, and at the same time will present a grain and backing finished in a 30 manner corresponding to wood of the usual type.

A further object of my invention is the provision of a ply wood which will incorporate the advantages set forth in the preced-35 ing paragraph and which will also be capable of being manufactured at a minimum figure.

Further objects of my invention will become apparent in the annexed specification taken in connection with the drawings which 40 illustrate the finished appearance of a body embodying my improved construction, the same being represented in—

Figure 1 in perspective, and in

Figure 2 in section.

throughout the major portion of its thick- sired. ness, that portion of the same which is not treated by the fire-proofing process being 50 capable of being finished by means of the usual treatment accorded to wood, in that the grain will thus not be injured, nor will those qualities of the wood permitting of its being artistically finished, be destroyed.

o all whom it may concern:

Be it known that I, Oscar P. Cadmus, a forming the body of the finished article of citizen of the United States, and resident of two layers of wood 5 and 6, the former not Bayside, in the county of New York and having been subjected to a fire-proofing proc-5 State of New York, have invented a new ess, the latter being of a thickness greater and Improved Ply Wood, of which the fol- than the former, and having been subjected 60

The layer 6 may be of any desirable In structures, in which the law requires, or cheaper type of wood, and constitutes the terials, considerable difficulty has been ex-shape desired, and subjected to a fire-65. perienced in providing decorative surfaces, proofing process such as by utilizing phossuch as panels, which would incorporate fire phate and sulphate of ammonia salts, resisting qualities, and which would also which are applied together with other suitable ingredients to the layer of wood by

Thus the layers 6 will possess the usual fire-resisting qualities, such as are desired, and in some instances, required by law. After the layer of wood thus treated has 75 been fully seasoned, it is preferably sur-With this in mind, my present invention faced to a true plane, and the face veneer aims to provide an article which might con- or layer 5 of non-fire-proofed wood is 25 veniently be termed "ply wood" by means of glued to the same with a suitable substance, and under strong pressure.

> The result is a body of fire-proofed wood, or new lumber element, with a facing of fine wood, which is not fire-proofed, suitable for use in numerous adaptations, such as in buildings where it is desired to 85 have hard wood trimming, wainscoating, etc.; where the law requires such wood must be fire-proofed. By the term "lumber element" is, of course, meant an element constructed solely of ligneous ma- 90 terial, which may be sawn, cut and finished as readily as a unitary length of wooden planking or the like.

It will be found that the layer 5 is of such a comparative thickness that no dan- 95 ger of a conflagration starting will exist in that the fire will be unable to penetrate the layer 6 of the body, and thus a highly I aim to accomplish my improved result artistic result will be produced which will by providing a body which is fire-resisting incorporate the fire-resisting qualities de- 100

> It will be understood that my invention is applicable to numerous adaptations and that the finished article may be produced at an extremely nominal figure.

Further it will be understood that modifications of construction and steps in the process of manufacture may be resorted to



face layer permanently adhesively secured such impregnation. together at their meeting faces, the backing layer being of much greater thickness

without in the least departing from the than the surface layer, the backing layer scope of my claim; which is:

being constructed of wood and being im- 10 As a new article of manufacture, a lumber element for the building trades including trades including a backing layer and a superposed surconstructed of wood but being free of any

OSCAR P. CADMUS.