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COMPOSITION FOR THE IMPREGNATION OF
WOOD

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Foreign Technology Division
Wright-Patterson Air Force Base, Ohio

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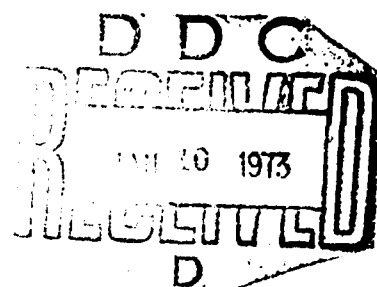
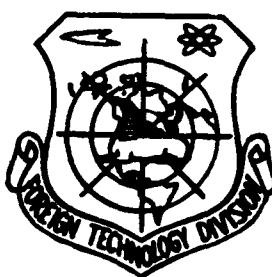
FOREIGN TECHNOLOGY DIVISION



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by

V. T. Lebedev, V. Ya. Novikov, et al.



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EDITED TRANSLATION

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By: V. T. Lebedev, V. Ya. Novikov, et al.

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WP-AFB, OHIO.

U. S. BOARD ON GEOGRAPHIC NAMES transliteration SYSTEM

Block	Italic	Transliteration	Block	Italic	Transliteration
А а	<i>А а</i>	A, a	Р р	<i>Р р</i>	R, r
Б б	<i>Б б</i>	B, b	С с	<i>С с</i>	S, s
В в	<i>В в</i>	V, v	Т т	<i>Т т</i>	T, t
Г г	<i>Г г</i>	G, g	У у	<i>У у</i>	U, u
Д д	<i>Д д</i>	D, d	Ф ф	<i>Ф ф</i>	F, f
Е е	<i>Е е</i>	Ye, ye; E, e*	Х х	<i>Х х</i>	Kh, kh
Ж ж	<i>Ж ж</i>	Zh, zh	Ц ц	<i>Ц ц</i>	Ts, ts
З з	<i>З з</i>	Z, z	Ч ч	<i>Ч ч</i>	Ch, ch
И и	<i>И и</i>	I, i	Ш ш	<i>Ш ш</i>	Sh, sh
Й й	<i>Й й</i>	Y, y	Щ щ	<i>Щ щ</i>	Shch, shch
К к	<i>К к</i>	K, k	Ъ ъ	<i>Ъ ъ</i>	"
Л л	<i>Л л</i>	L, l	Ы ы	<i>Ы ы</i>	Y, y
М м	<i>М м</i>	M, m	Ь ь	<i>Ь ь</i>	'
Н н	<i>Н н</i>	N, n	Э э	<i>Э э</i>	E, e
О о	<i>О о</i>	O, o	Ю ю	<i>Ю ю</i>	Yu, yu
П п	<i>П п</i>	P, p	Я я	<i>Я я</i>	ya, ya

* ye initially, after vowels, and after ъ, ь; e elsewhere.
When written as ѣ in Russian, transliterate as yě or '.
The use of diacritical marks is preferred, but such marks
may be omitted when expediency dictates.

COMPOSITION FOR THE IMPREGNATION OF WOOD

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Compositions of monomers are known for strengthening wood by means of impregnation and polymerization with ionizing radiation. The known compositions of monomers do not yield the necessary strength of wood and parts made from it.

The purpose of the invention is increasing the durability of wood and lengthening the service period of parts made from it by means of impregnation with a composition containing methyl methacrylate in a quantity of 70-93% and $\beta\beta'$ -dichloroethyl ether of vinyl phosphonic acid in a quantity of 30-7% of the volume of the mixture.

The procedure is the following. The wood is evacuated, impregnated with a mixture of monomers of methyl methacrylate and $\beta\beta'$ -dichloroethyl ether of vinyl phosphonic acid in a ratio of 3:1, and polymerized by means of ionizing radiation, for example, the gamma-rays of Co^{60} in an inert medium at an irradiation dose of 3-5 Mrad.

Subject of Invention

A composition for the impregnation of wood on a base of monomers is *characterized* by the fact that for the purpose of increasing the durability of wood the composition contains 70-93% methyl methacrylate and 30-7% $\beta\beta'$ -dichloroethyl ether of vinyl phosphonic acid.