

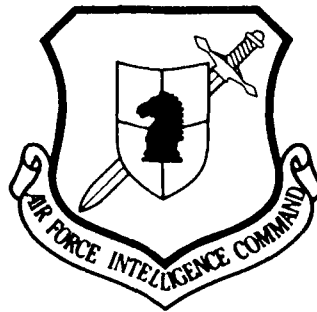
AD-A256 917



FASTC-ID(RS)T-0410-92

2

FOREIGN AEROSPACE SCIENCE AND TECHNOLOGY CENTER



DEVICE FOR APPLYING POWDER COATINGS
(Description of an invention for an author's certificate)

by

V.A. Belyy

S DTIC
ELECTE
OCT 27 1992
A **D**



Approved for public release;
Distribution unlimited.



425039

92-27893



600

92

HUMAN TRANSLATION

FASTC-ID(RS)T-0410-92 15 October 1992

DEVICE FOR APPLYING POWDER COATINGS
(Description of an invention for an author's
certificate)

By: V.A. Belyy

English pages: 3

Source: Russian Patent Nr. 276381, 14 July 1970;
pp. 1-2

Country of origin: USSR
Translated by: Charles T. Ostertag, Jr.
Requester: OLAC PL/STSC/R.H. Gerzeski
Approved for public release; Distribution unlimited.

THIS TRANSLATION IS A RENDITION OF THE ORIGINAL FOREIGN TEXT WITHOUT ANY ANALYTICAL OR EDITORIAL COMMENT STATEMENTS OR THEORIES ADVOCATED OR IMPLIED ARE THOSE OF THE SOURCE AND DO NOT NECESSARILY REFLECT THE POSITION OR OPINION OF THE FOREIGN AEROSPACE SCIENCE AND TECHNOLOGY CENTER.

PREPARED BY:

TRANSLATION DIVISION
FOREIGN AEROSPACE SCIENCE AND
TECHNOLOGY CENTER
WPAFB, 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 я	<i>Й я</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 ѐ in Russian, transliterate as yě or ě.

RUSSIAN AND ENGLISH TRIGONOMETRIC FUNCTIONS

Russian	English	Russian	English	Russian	English
sin	sin	sh	sinh	arc sh	\sinh^{-1}
cos	cos	ch	cosh	arc ch	\cosh^{-1}
tg	tan	th	tanh	arc th	\tanh^{-1}
ctg	cot	cth	coth	arc cth	\coth^{-1}
sec	sec	sch	sech	arc sch	sech^{-1}
cosec	csc	csch	csch	arc csch	csch^{-1}

Russian English

rot curl
lg log

GRAPHICS DISCLAIMER

All figures, graphics, tables, equations, etc. merged into this translation were extracted from the best quality copy available.

Accession For	
NTIS CRA&I	<input checked="" type="checkbox"/>
DTIC TAB	<input type="checkbox"/>
Unannounced	<input type="checkbox"/>
Justification	
By	
Distribution/	
Availability Codes	
Dist	Availability Codes
A-1	

DEVICE FOR APPLYING POWDER COATINGS

(Description of an invention for an author's certificate)

Belyy, V.A.

(11) 276381

Cl. 39a 13/00

(51) IPC B 29c 13/00

(53) UDC 678.056 (088.8)

(22) Date filed 09/12/66

(21) Application number 1118085/23-5

(72) Belyy, V.A.

(71) Department of Mechanics of Polymers, AS Byelarusian SSR

(54) Device for Applying Powder Coatings

A device for the application of powder coatings is known which is made in the form of a vertical chamber which is equipped with devices for feeding the parts to be coated into its upper section and the receiving of the coated parts in its lower section, and also for feeding the air-powder mixture inside the chamber. The known device, being based on the free falling of the part being coated in the process of application of the coating without its contact with any restraining element, does not permit the controlling of movement of the part being coated, in particular the stopping of its falling, as a result of which it has great height.

In the device being proposed, for controlling the movement of the parts being coated inside the chamber the latter is equipped with controllable electromagnets mounted on its walls.

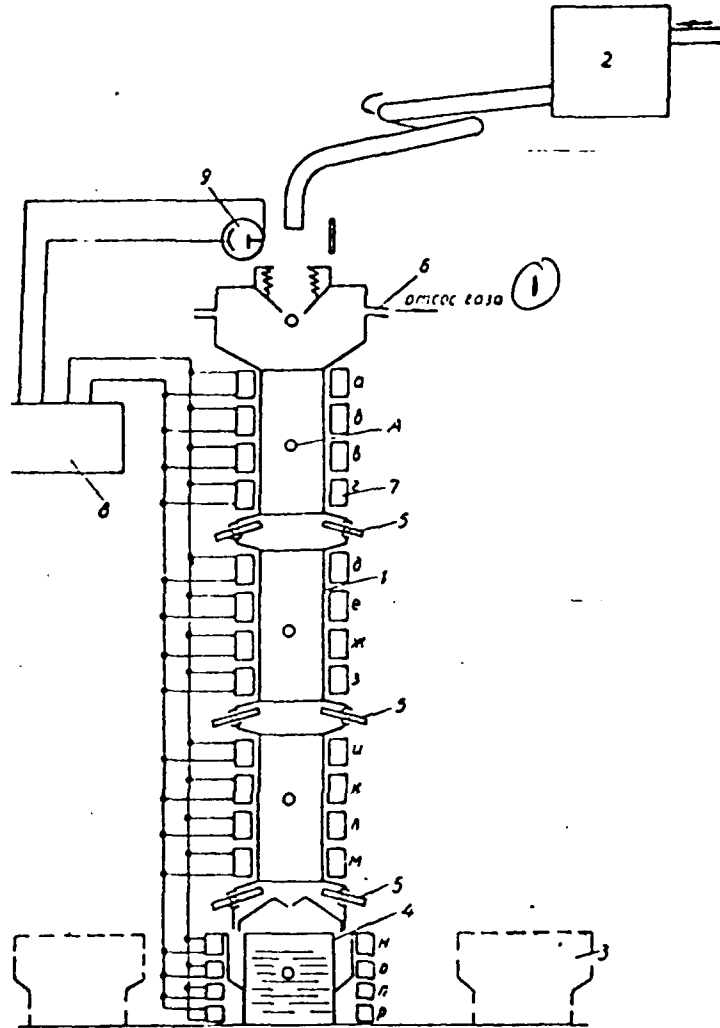
The drawing shows the layout of the proposed device.

The device consists of a vertical chamber 1, equipped in the upper section with a mechanism 2 for feeding the parts which are to be coated, a conveyer 3 with vessels 4 for receiving the coated parts and their simultaneous liquid heat treatment, and also connecting pieces 5 and 6 for feeding the air-powder mixture inside of the chamber and removal from it in the necessary places.

The electromagnets 7 which are mounted on the walls of chamber 1 and which control the program device 8 which is connected with the device 9 for signalling about the feeding of the parts into chamber 1 make it possible in the required manner to slow down, and also to stop completely in the required places the parts being coated A under the action of the forces of gravity, and also to increase sharply the time for applying the coatings with a low height of the device, and also to regulate the time which the parts being coated spend in the zones of the chamber with different technological modes.

Subject of the invention.

A device for applying powder coatings which is made in the form of a vertical chamber equipped with devices for feeding the parts to be coated into its upper section, and the reception of the coated parts in its lower section, and also for feeding the air-powder mixture into it, characterized by the fact that for controlling the movement of the parts to be coated inside of the chamber the latter is equipped with controllable electromagnets which are mounted on its walls.



Key: (1) drawing off of gas.