

$$j_2 = \sqrt{\frac{j_4^*(k+2)}{k}}; \quad = \frac{1}{j_2}; \quad A = \frac{1}{2j_4^*((k+2)j_4^* - k)}; \quad j_4^* = \frac{k(k_0 + k_c)}{(k+2)k_c}$$

[131]:

$$t = \frac{|b_i|}{S_{b_i}} \quad (6)$$

t t

F - (),
[5]:

$$F = \frac{SS_{LF}}{f_{LF}} : \frac{SS_E}{f_E}, \quad (7)$$

$$SS_{LF} = SS_R - SS_E -$$

$$SS_R = \sum_{u=1}^N (\hat{y}_u - \bar{y})^2 -$$

$$\bar{y}_1, \bar{y} -$$

$$SS_R = \sum_{u=1}^{k_0} (\hat{y}_u - \bar{y})^2 -$$

$$\bar{y}_{ou} -$$

$$f_E, f_{LF} -$$

$$f_E = k - 1; \quad f_{LF} = N - \frac{(k+2)(k+1)}{2}$$

- 258 . 2.

: 1.

.. - 2004. 1. - . 10 - 12. 3.

" " ;
.. - 2004. 1. - . 5 - 9. 4.
13. -
2006. - . 98-100. 5.
1965. - 230 . 7.
1967. - 188 . 8.
1969. - 204 . 9.
1970. - 166 . 10.
1972. - 542 .
16.09.06.

669.1:622

Questions of reception of ready agglomerate are considered in view of technological process of crushing in a gear crusher with the purpose of improvement of quality of domain raw material, the basic laws of process are shown, the mathematical model and essentially new circuits of crushing is developed.

[1].

(2 1 0,3),

5 50 .

5

100 - 300

15-17

[2].

1% 0,4-0,7 %.

14,8 10,6 %

1,7-2,3 % [3].

[4]

0,4-0,5 / [5].

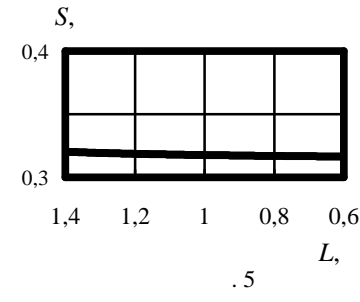
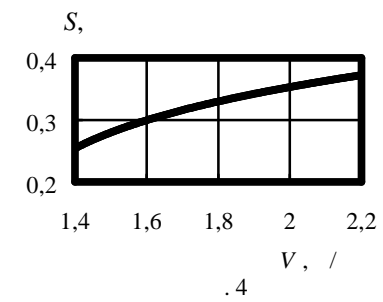
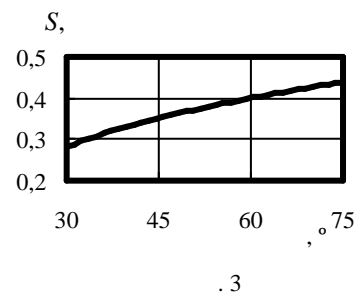
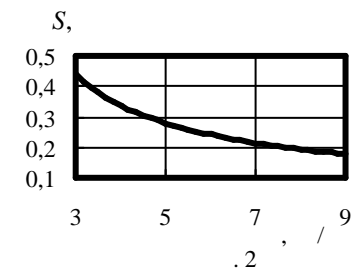
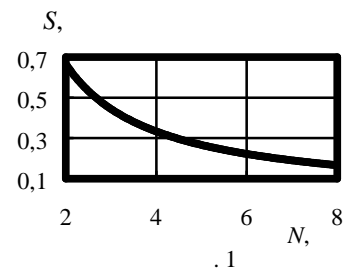
5 - 7 / [5].

148-

2 (

" (),

1 - 5 [6].



0,3 - 0,5 ([7]) :

$$S = \frac{1}{S} \left(\frac{2f}{N} - s - x \right) \left(2V \sin r + \sqrt{V \sin r + (\sin r - f \cos r) 2gL} \right) \quad (1)$$

$S-$;
 $N-$;
 $V-$;
 $f-$;
 $L-$.

[9],

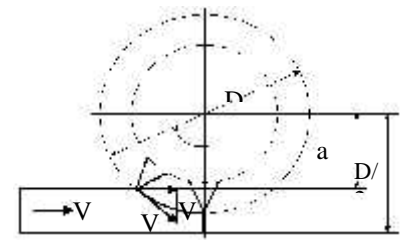
$$\begin{cases}
 \ddot{M}_{12} - \frac{M}{I_2(\dot{S}_0 - \dot{S})} \ddot{M}_{12} + S_{12}^2 \dot{M}_{12} + S_{12}^2 \frac{M}{(I_1 + I)(\dot{S}_0 - \dot{S})} M_{12} - \\
 - C_{12} \frac{\dot{M}_{23}}{I} - S_{12}^2 \frac{M}{(I_1 + I)(\dot{S}_0 - \dot{S})} M_{23} = C_{12} \frac{\dot{M}_2}{I} + S_{12}^2 \frac{M}{(I_1 + I)(\dot{S}_0 - \dot{S})} M_2 \\
 \ddot{M}_{23} + S^2 M_{23} - \frac{C_0}{I} M_{12} - \frac{C}{I} M_{34} = -\frac{C}{I} M_2 + \frac{C}{I} M_3 \\
 \dots \\
 \ddot{M}_{89} - \frac{C}{I} M_{78} + S^2 M_{89} - C \frac{M_{9,10}}{I} = -C \frac{M_8}{I} + C \frac{M_9}{I} \\
 \ddot{M}_{9,10} - \frac{C}{I} M_{89} + S^2 M_{9,10} = -\frac{C}{I} M_9 + C \frac{M_{10}}{I}
 \end{cases} \quad (2)$$

5 - 50

[9 - 12],

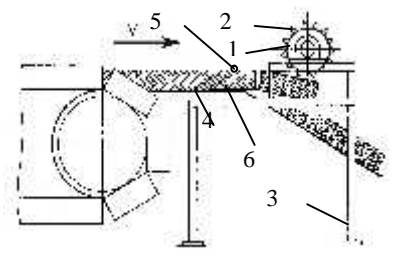
6.

/	1	2	3	4
1	+	+	+	+
2	+	+	+	+
3	+	+	-	-
4	+	+	+	+
5	-	-	+	+



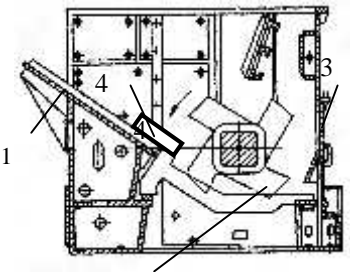
1 9901

$h \leq \frac{D}{2} - \frac{D}{2} \cos 45^\circ$; $r \leq \arccos \frac{60V}{fDn}$,
 $h-$;
 $D-$;
 $V-$;
 $n-$



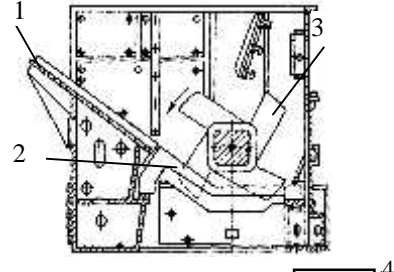
2. 12363

1 - ; 2 - ;
3 - ;
4 - ;
5 -



4. 9843

1 - ;
2 - ; 3 - ;
4 -



3. 9865

1 - ;
2 - ;
3 - ;
4 - ;
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.6.

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12363

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9865 9843

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[13]

1. 1968.

2. 1998. - 248 3.

1991. - 141 4.

2004.

1. - 10 - 12. 5.

2004. 1. - 5 - 9. 6.

2005. - 323 - 330. 7.

2005. 89 - 151 - 154. 8.

2006. 13 - 100 - 103.

9. 9901, 02 4/10. 17.10.05 10.

10. 12363, 02 11/00.

15.02.06 2. 11.

4/10. 17.10.05 10. 12. 9843, 02

9865, 02 4/10. 17.10.05 10. 13.

2006. 1. - 27 - 29.

16.09.06.

543.1/532.135:541.12.015

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In clause the brief description of vibrating machines and technologies is resulted. Vibrating mills such as VUPP-200, VUPR-5 are universal and on them it is possible to carry out various kinds of processing of materials - crushing, activation, mixture, condensation, a covering of one powder another, hardening, reception of granules of various organic and inorganic materials, clearing of waste products of oils and every possible pollution.

1981

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200 , 500 600 , 10-

14 , 1-12 ,

1500 -1., 2.45*0.99*1.19 ,

1.5 ,

16.09.06.