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**15.02.08**

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15.02.08



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1.2

1.3

1.4

1.5

2.1.

2.2.

2.3.

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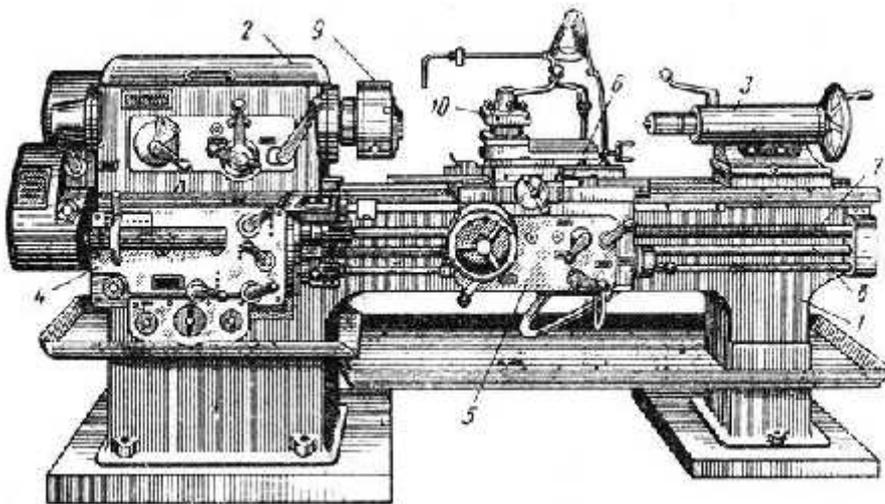
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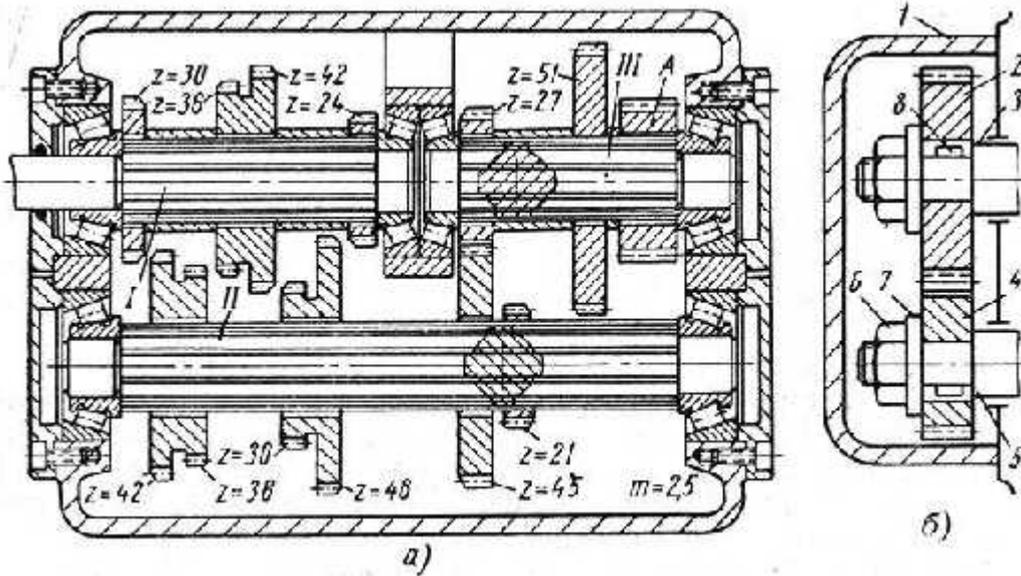
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2,

I III

II

I.

I III

$$4 \times 2 = 8$$

$$n_{III_{min}} = n_I \frac{24}{48} \cdot \frac{21}{51}$$

( ) ;

$$n_{III_{max}} = n_I \frac{42}{30} \cdot \frac{45}{27}$$

( ) .

$$R_a = \frac{n_{III_{max}}}{n_{III_{min}}} = \frac{42 \cdot 45 \cdot 48 \cdot 51}{30 \cdot 27 \cdot 24 \cdot 21} \approx 11.$$

( 2, ).

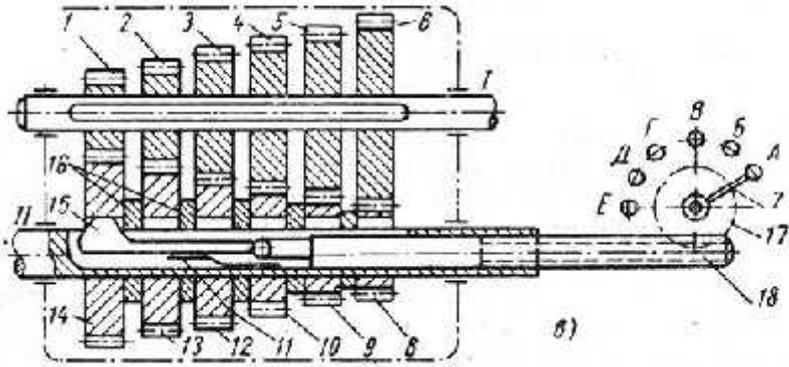
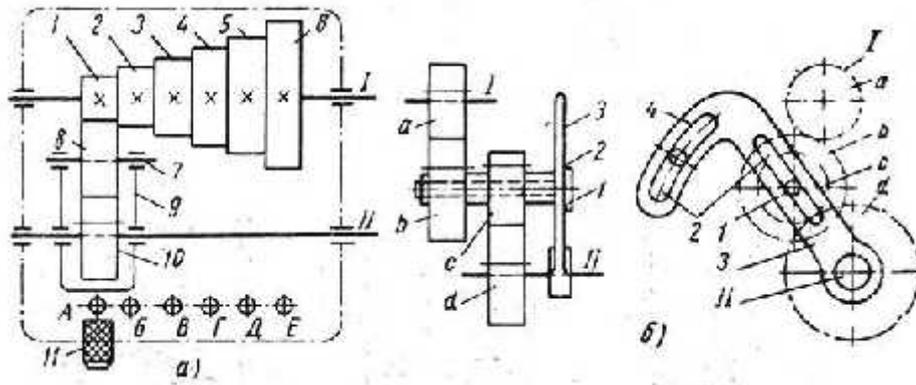
\* ( , ) ,  
 , , -  
 , - , 3  
 ( 3, ) I  
 1-6. 10 9, II 7  
 8, II. 8  
 1-6 11, II I  
 II , ( 3, )  
 , , d.  
 ( ) , - , -  
 , b, , d. b 2, 3 ,  
 d. b  
 4, 3 II. 3, .  
 :

$$a + b > c + 15;$$

$$c + d > b + 15.$$

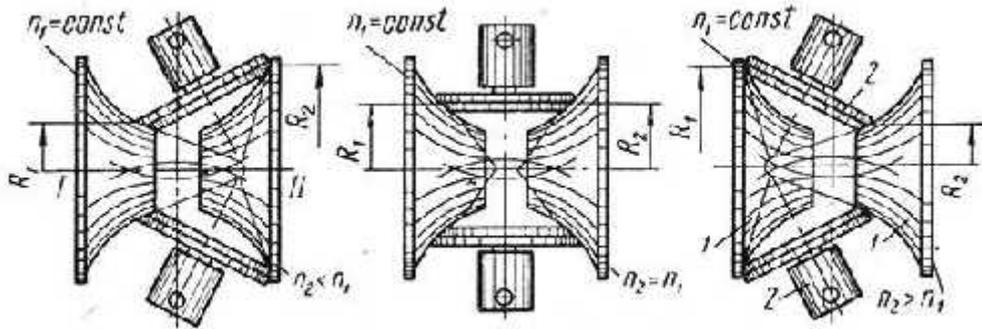
( 3, ) + b  
 I 8-10 12-14, 1-6. II. 15  
 II , , 7 17 ( 18 ,  
 II ). II ,  
 15. 16,  
 11.





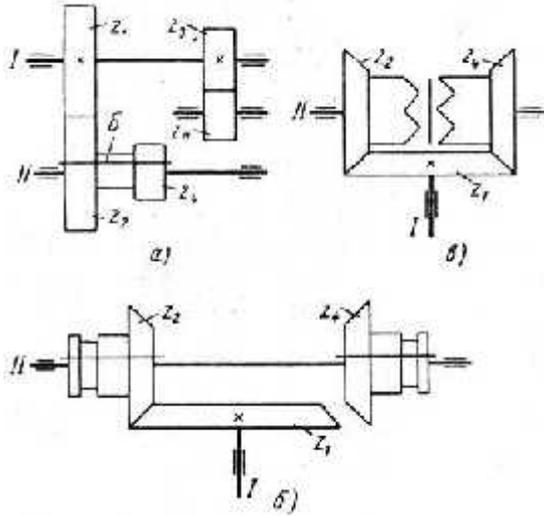
3 - ; - ; I - ; II - ; -

( 4). I II I. 2,



4-

$n_2$   $n_1$   $i = R_1 / R_2$   $(R_1 R_2 -$   $2,$   
 $R_n = 4 \div 8.$



5 - :  $z_1$   $z_3$  - ;  $z_2$   $z_4$  - ;  $z_n$  - ; -

5,

I

II

$z_3$

$z_n$ .

$$i = \frac{z_3}{z_n} \cdot \frac{z_n}{z_4} = \frac{z_3}{z_4}$$

II.

( 5, )

( 5, ).

I II

$z_2$   $z_4$  -



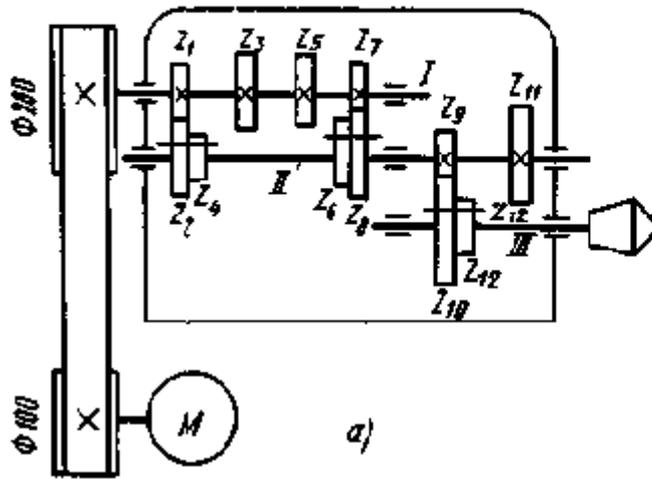




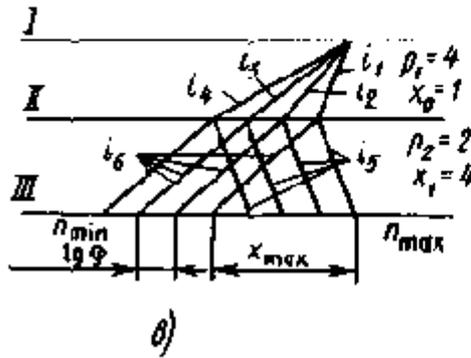
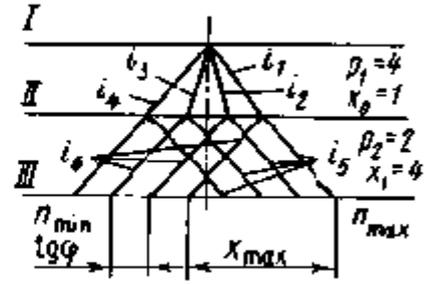
2—  
I II, II III; 0 1—  
, 1—

( 0= 1—

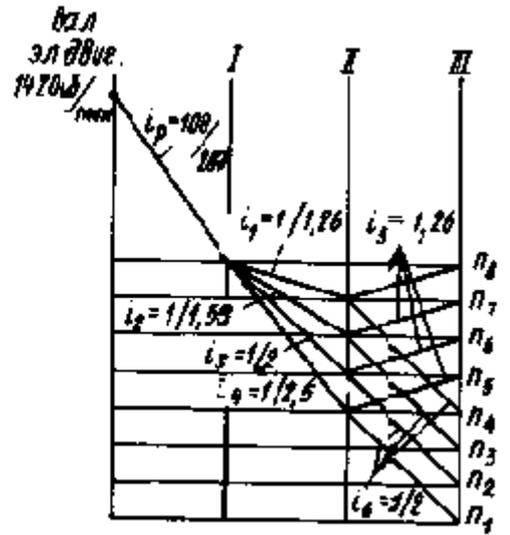
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б)



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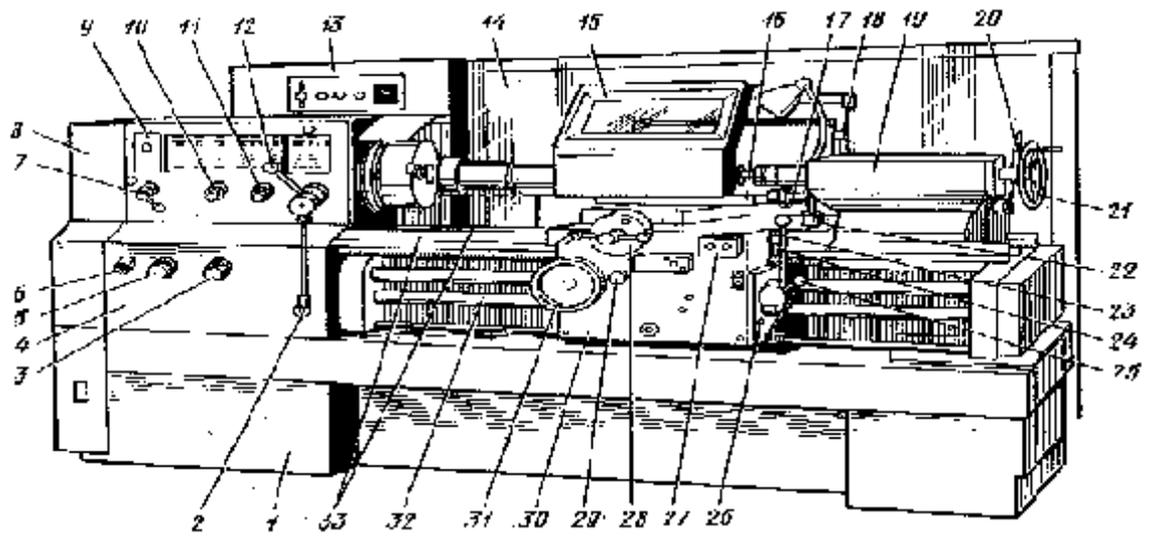
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- 4.
- 5.

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,	200
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,	670
,	600
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	22
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,	56 ... 0,5
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