

**3443-87**



2005

3443-87

Cast iron castings with graphite of different form.  
Methods of structure determination

MKC 77.140.80  
41 1100

01.07.88

1).  
1.  
1.1.  
1.2.

:		1 ; ; ; ( ) ; ; (%)

-	:	1 2
		( ) - - (%),
-	: ^ N. ^	1 2  4 5  ( ) - ( 2)
		(%),  ( 2)

2.

2.1.

2.2.

2.3.

2.4.

3<sup>2</sup>, 9<sup>2</sup>,  
— 0,2<sup>2</sup>. ( —  
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15—20 .  
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3.  
3.1. , —  
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3.2. , —  
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3.3. 2. —  
, 3.  
3.4. 3 4 , —  
, —  
, —  
,  
3.5. 1—4 — 2,  
3.5.1. 1, — 4.  
3: — 3, — 4.  
3.5.2. — 1, — 2, — 4 .  
3.5.3. ( ) — 1 ,  
— 2 : — 4 .  
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2

	-		
15	15	15; 15	15
25	15 » 30	25; 25	15 » 30
45	» 30 » 60	45; 45	» 30 » 60
90	» 60 » 120	90; 90	» 60 » 120
180	» 120 » 250	180; 180	» 120 » 250
350	» 250 » 500	;	» 250 » 500
750	» 500 » 1000		
	» 1000		

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3.5.4. 1, 2 , :

1,0% , « ».  
3.5.5. .3 1 , .3 .  
3

	, %		, %
2, 2	3	10	8 12
4, 4	3 » 5	12, 2	» 12
6, 6	» 5 » 8		

3.5.6. 3 .  
.4 2 .  
4

	, %		, %
100	0	92	5 10
98	5	85	» 10 » 20
		70	» 20 » 40

3.6. 3 .  
3.6.1. 5.  
3.6.2. ( + = 100 %)  
. 5 6 3;  
— 1, — 2,  
— 4, — 5. 3,  
3

	, %		, %
96	98	0	2
92	» 94 98	4	2 » 6
85	» 90 94	8	» 6 » 10
70	» 80 90	15	» 10 » 20
45	» 60 80	30	» 20 » 40
20	» 30 60	55	» 40 » 70
6	» 10 30	80	» 70 » 90
	» 2 10	94	» 90 » 98
	» 2		» 98

3.6.3. 7.  
3.6.4. .6 8 3.

6

0,5 1 )	0,3 0,3 » 0,8 » 0,8 » 1,3	1,4 1,6	1,3 1,6 » 1,6

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2.

3.6.5.

9 :

4,0 %-

70—80°

— 2.

— 1,

3.6.6.

9 .

3.6.7.

.7

9

3.

7

250 400 650	250 250 » 500 » 500 » 750	1250	750 1250 » 1250

3.6.8.

3.

, 8 9

8

2000 13000	2000 2000 » 10000 » 10000 » 16000	20000 25000	16000 20000 » 25000

3.6.9.

.9

10

3.

9

2 4 10	2 2 » 5 » 5 » 15	25 40	15 40 » 40

-

1,0 % ( -

2000 2 - )

« ».

. 6 3443-87

3.6.10.

. 10 10 3.

10

	- 2		- 2
2000	2000	20000	16000 25000
13000	2000 » 10000 » 10000 » 16000	25000	» 25000

60—120 ; : 30 60 %

0,5 ; ,

:

1 - 1 - 90 - 1 - 45 - 0,5 - - 1

30 60 ;

: 60 % :

5 - 45 - 1 - 70 - 2

: 60 %

40—50 ;  
0,8 , 40 %

.

- 45 - 1 - 70 - 30 - 1,0

, 85 %; 80 % ,

- 2 - 85 — 80.

## 945—75

	3443-87	945-75
	1	I
	4	II
	2	III
	1	IV
		V
	5	VI
		—

## 945—75

	3443-87	945-75
	1	
	2	
	7	
	8	D
	9	
	5	—
		—
	4	—
		—

( )

## 945—75

	3443-87	945-75
. 1000		1
500 1000		2
» 250 » 500	,	3
» 120 » 250	, 180	4
» 60 » 125	, 90	5
» 30 » 60	, 45	6
» 15 » 30	, 25	7
» 15	, 15	8



<p>4 %- (4 <math>\text{HNO}_3</math> 96 3 ) 4 %- (4 96 3 )</p>	-	-	-
<p>1 95 3 5—10 2 %- <math>\text{HNO}_3</math></p>	-		-
<p>(2 10 NaOH, 88 3 20)  [2 <math>\text{K}_3\text{Fe}(\text{CN})_6</math>, 25 70 3 20]</p>	70—80 °  4 %-  70—80 °  4 %-	- - - - - -	- - - - - -
<p>4 %-  10 %- (10 <math>\text{HNO}_3</math> 90 )</p>	-	-	-

:

1000

( o)

$$= \frac{1000}{2}$$

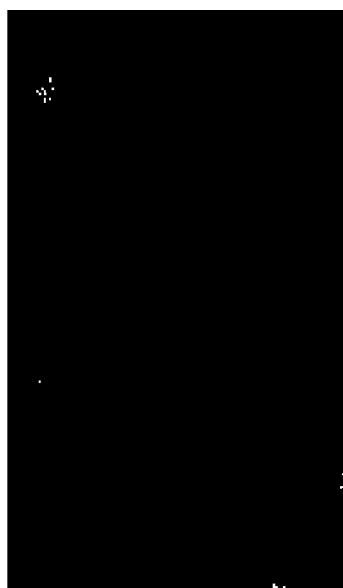
— 1.

100



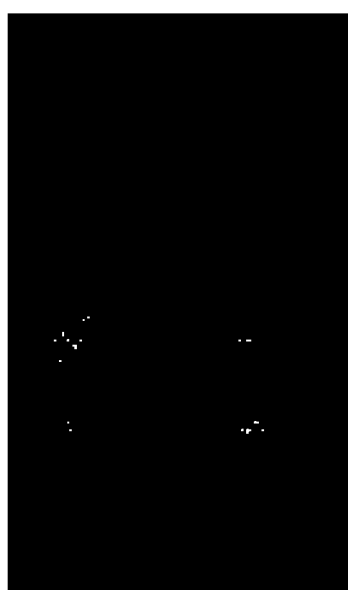
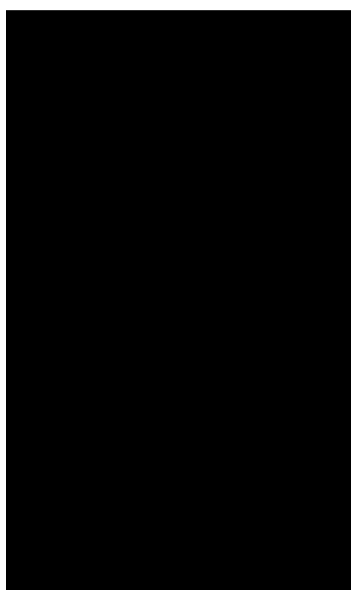
ПГФ1

Игольчатая

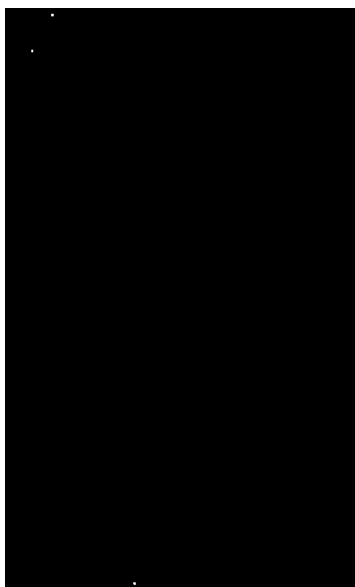


ПГФ2

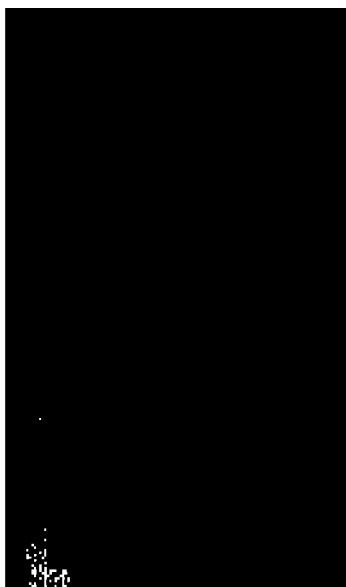
Гнездообразная



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15



25



45



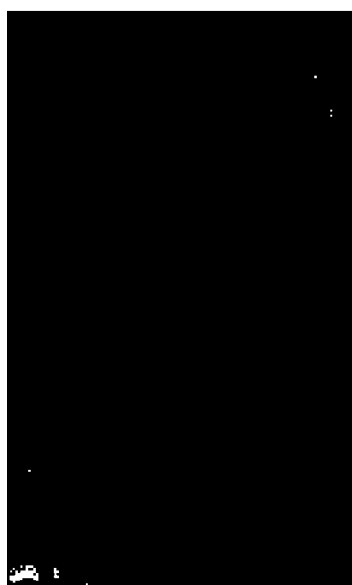
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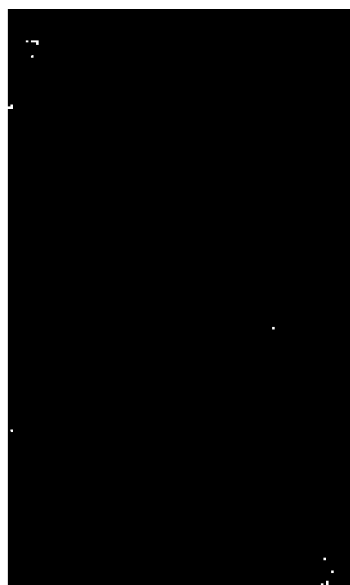
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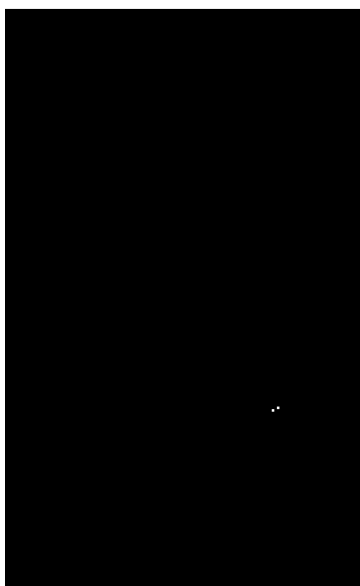


ПГд350

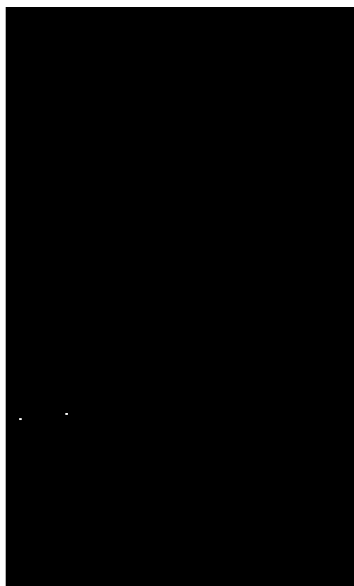


750

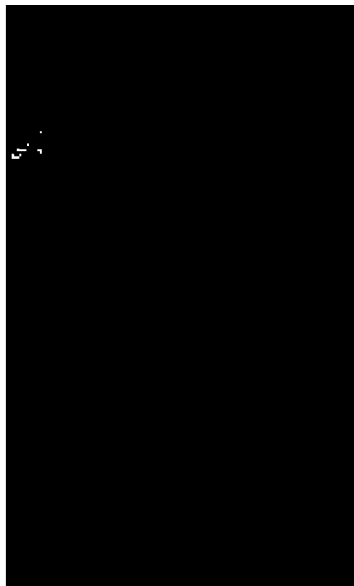
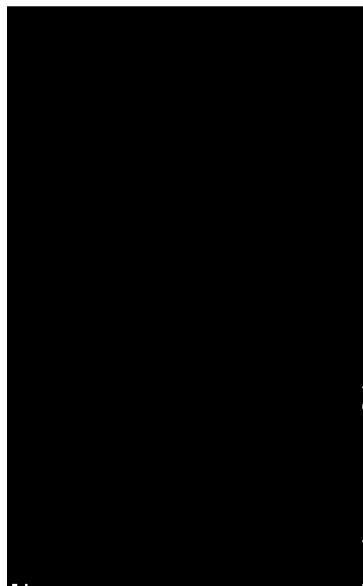




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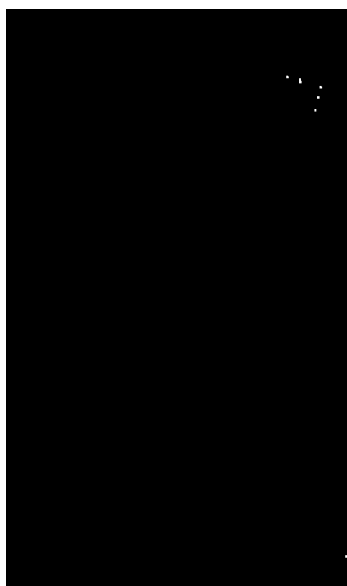
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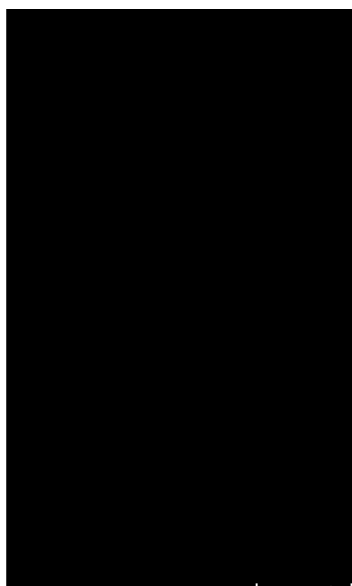
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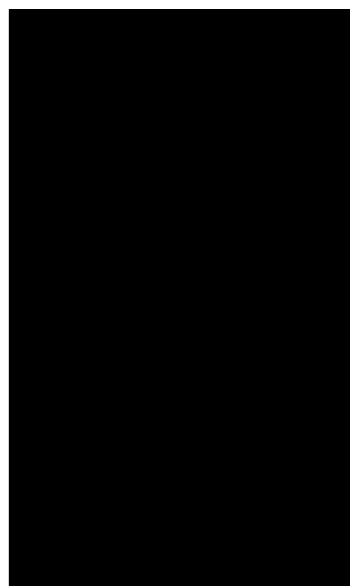
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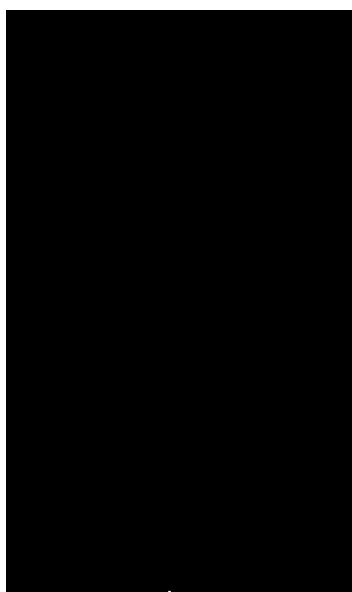
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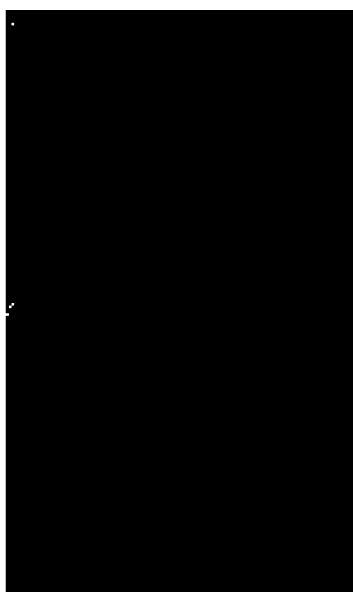
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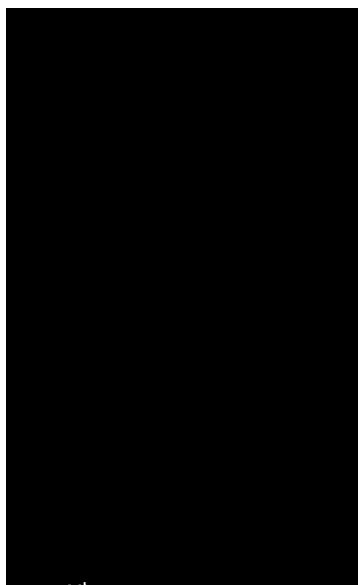
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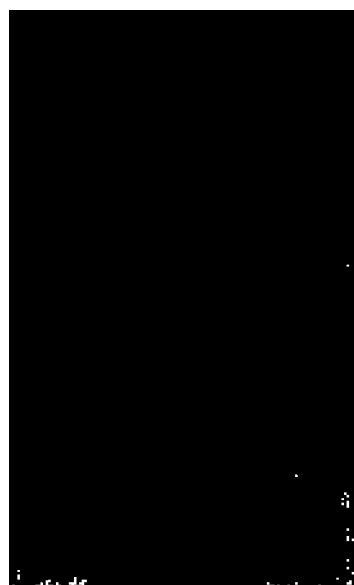
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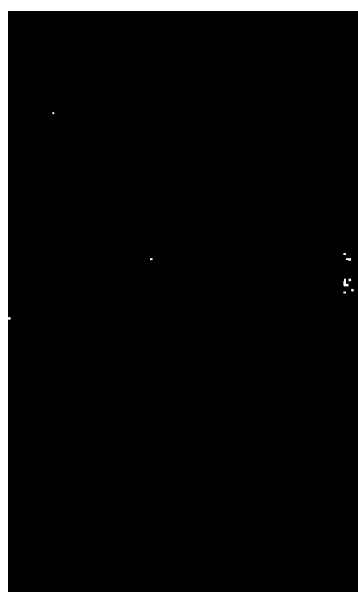


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ВГФЗ

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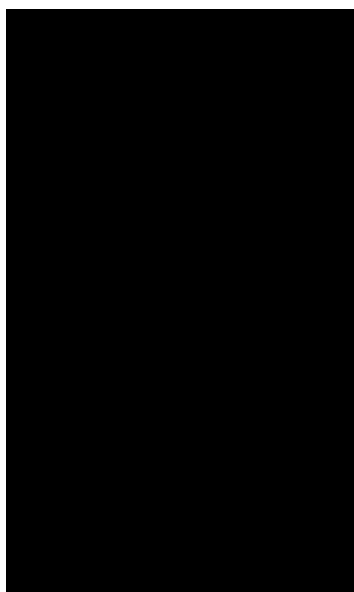
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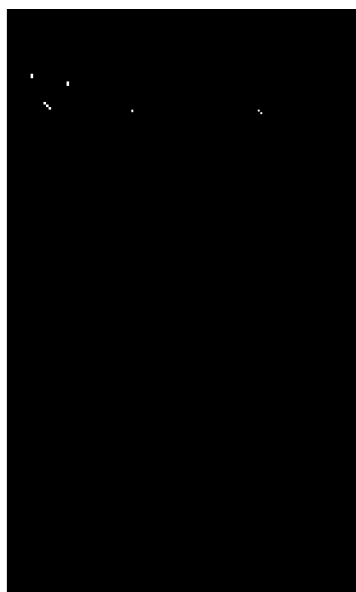
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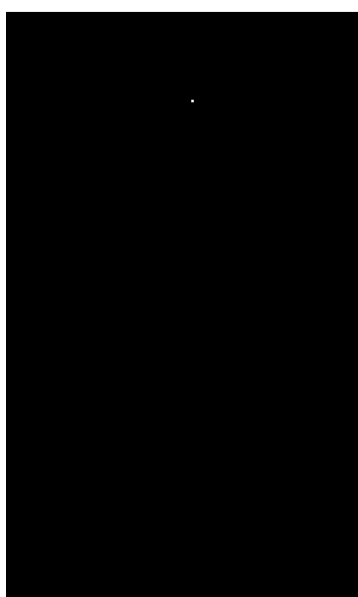


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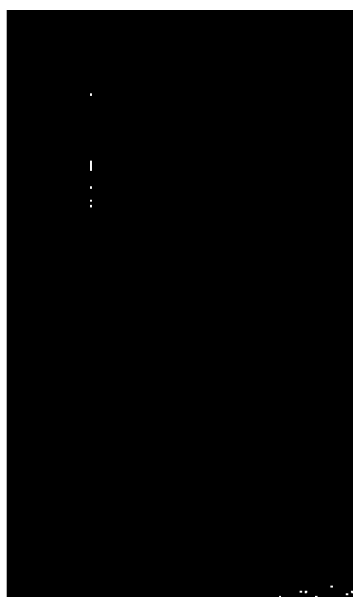


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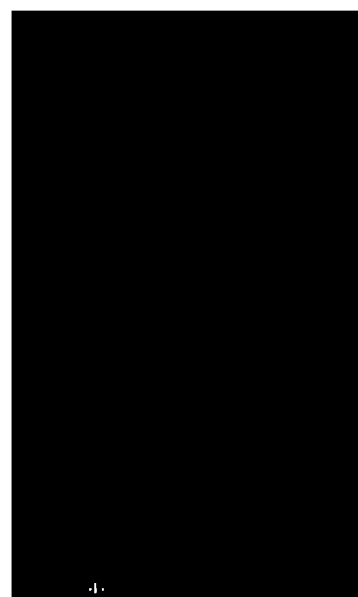
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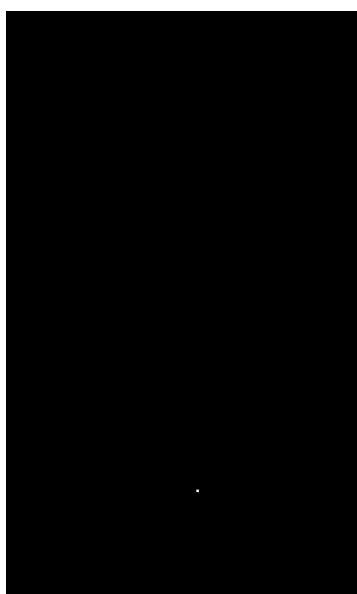
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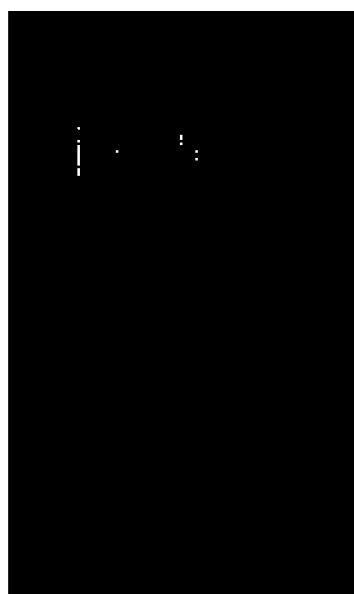
98



92



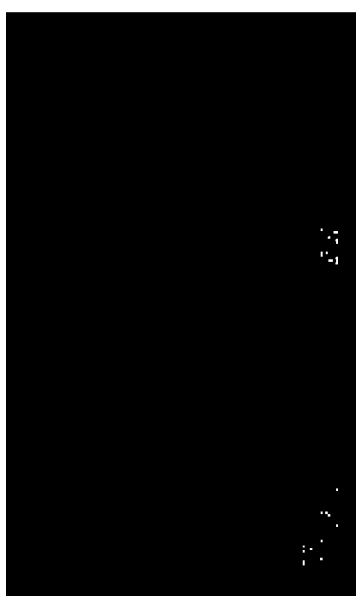
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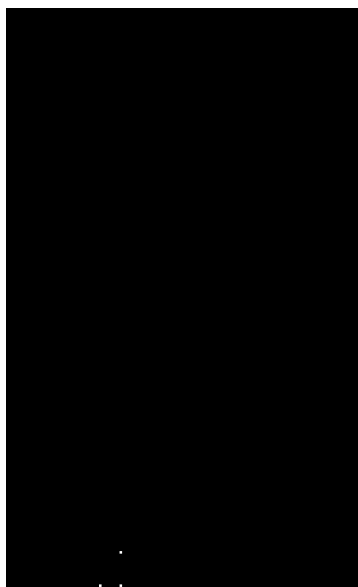


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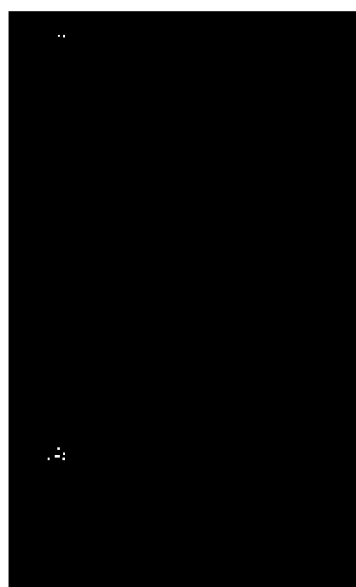


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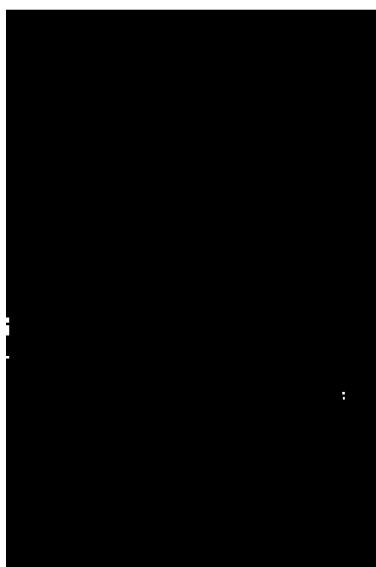


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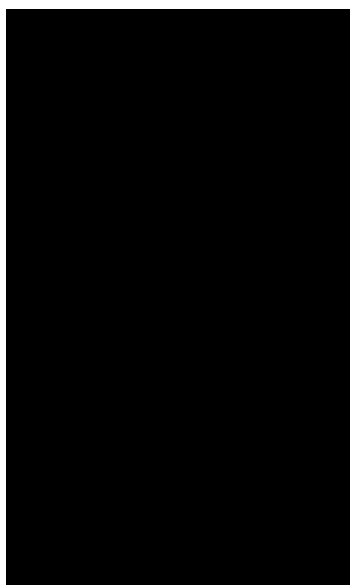
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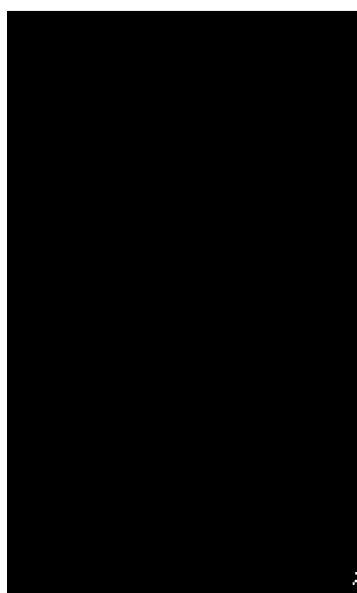


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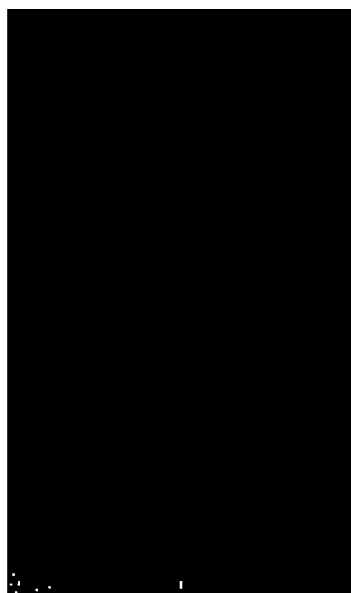


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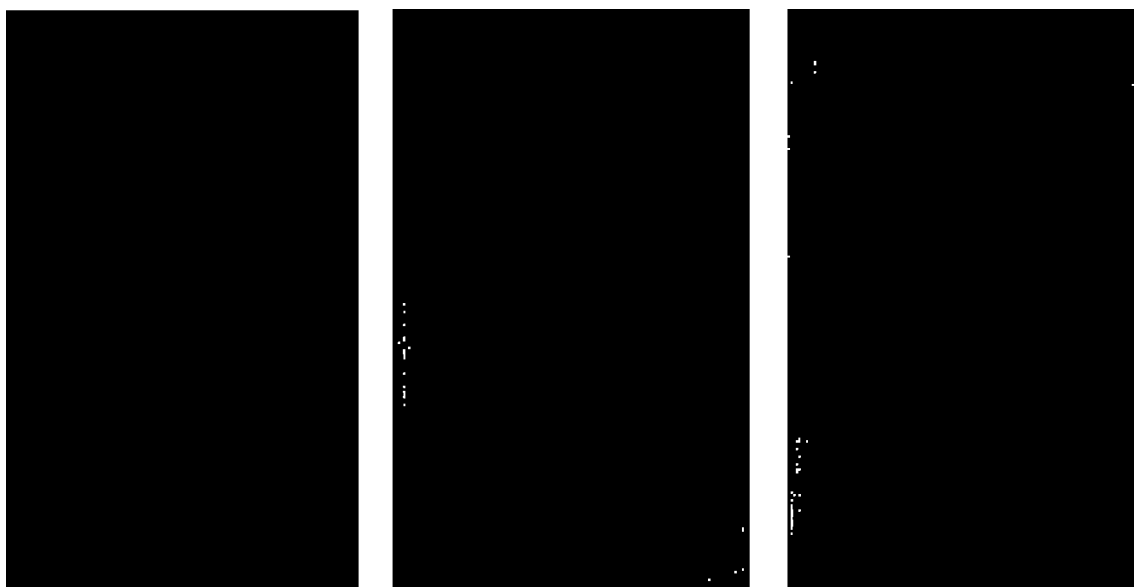


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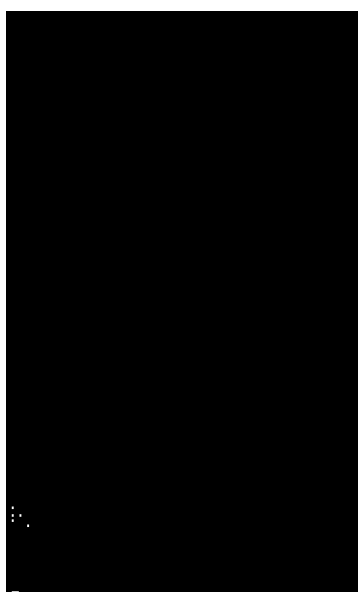
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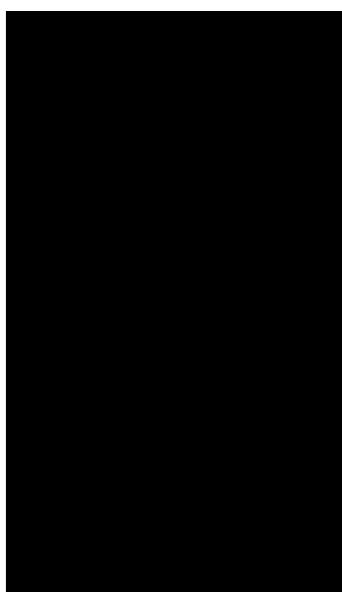
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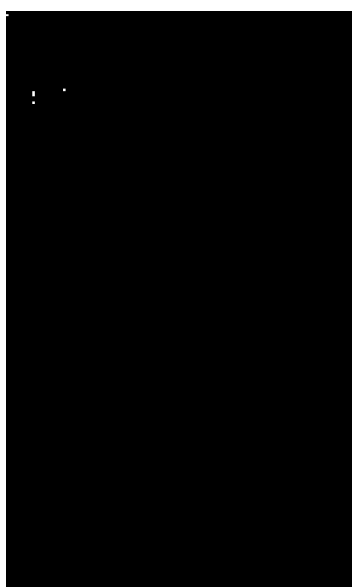


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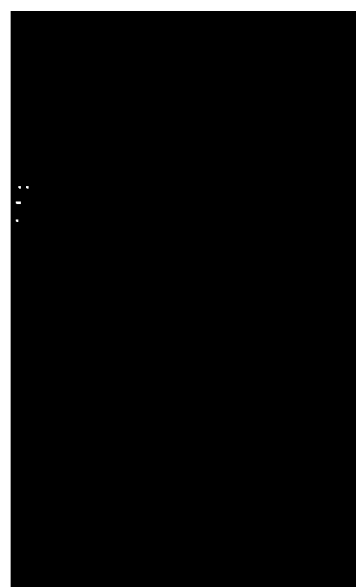
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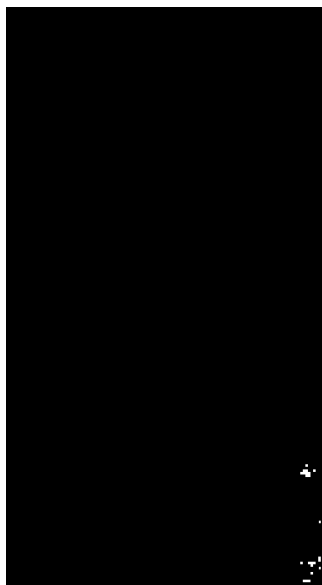
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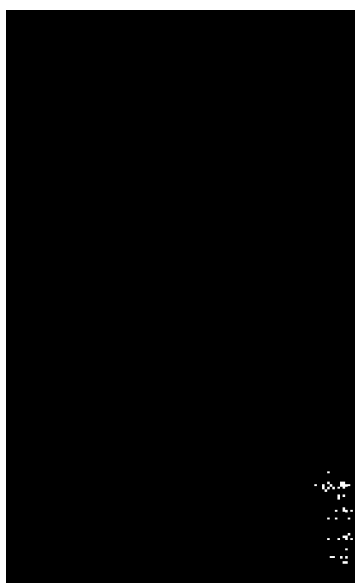
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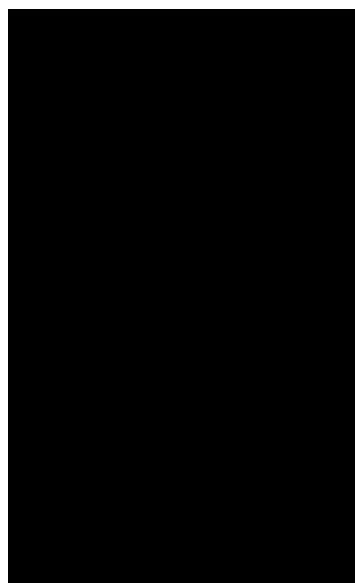
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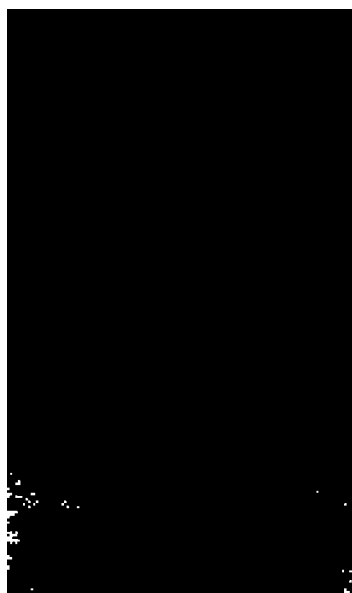
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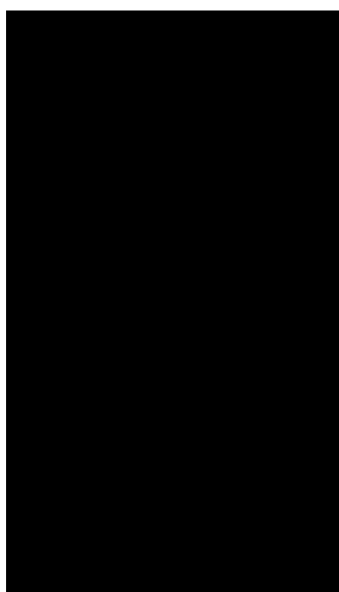
КГД25



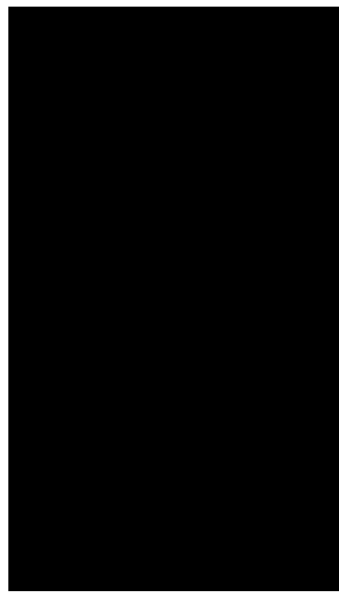
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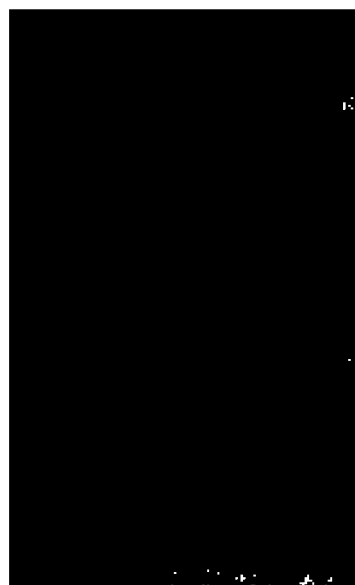
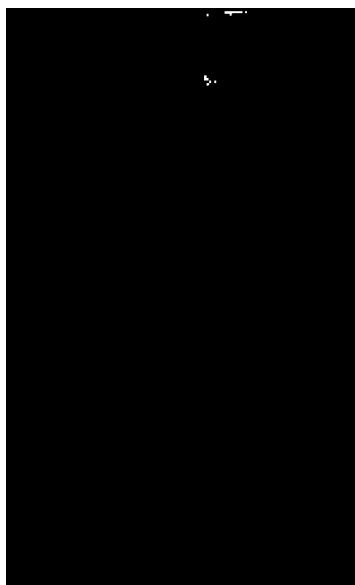
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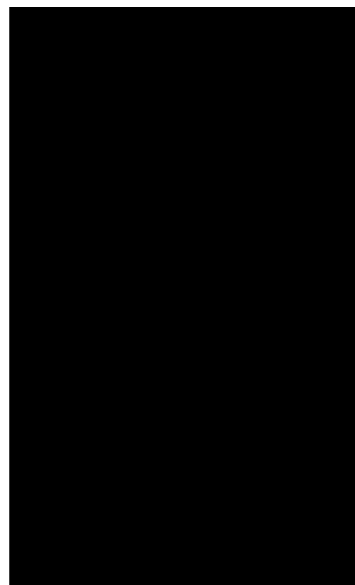
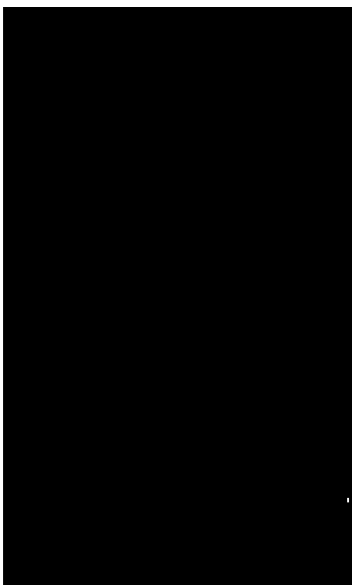
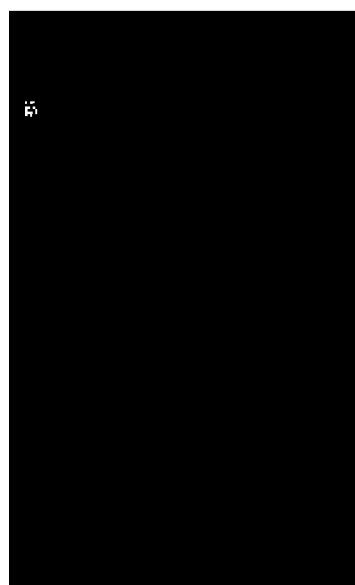
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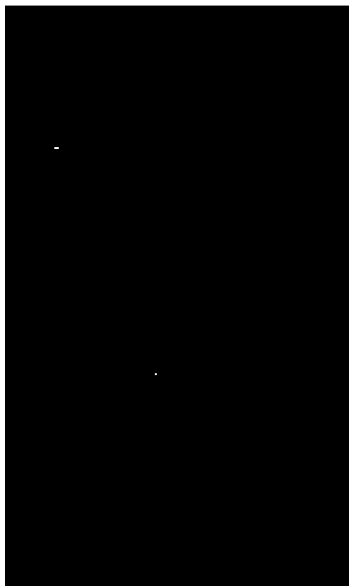




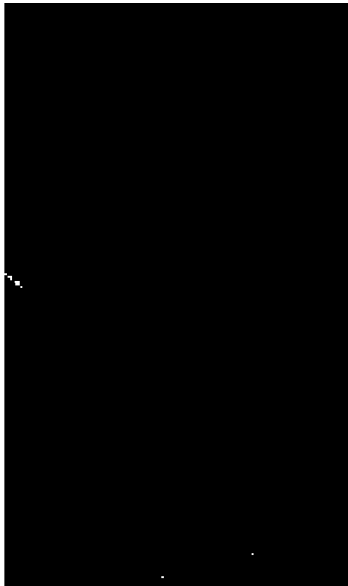
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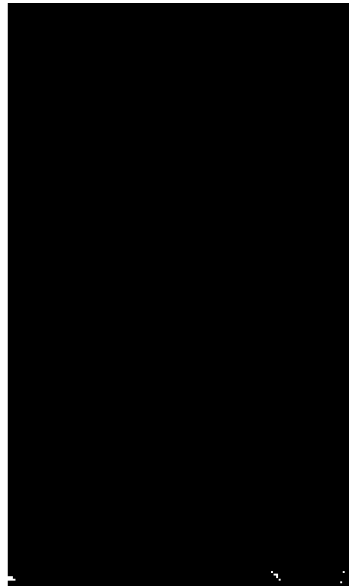
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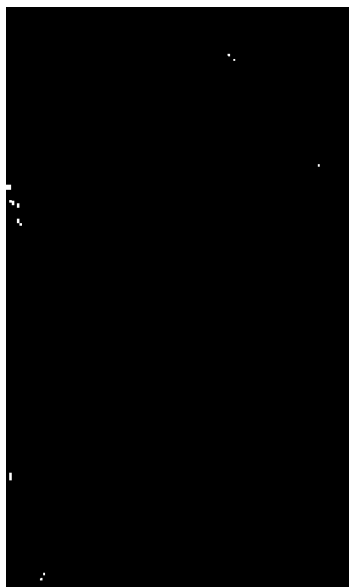
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96 ( 4)



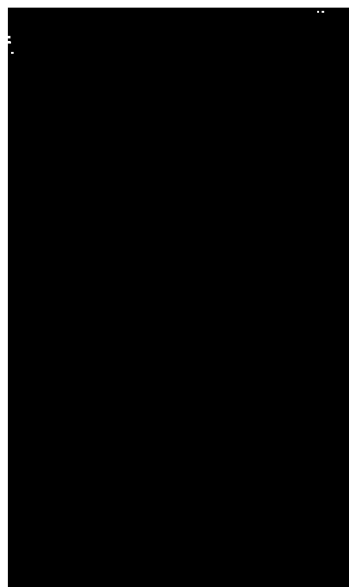
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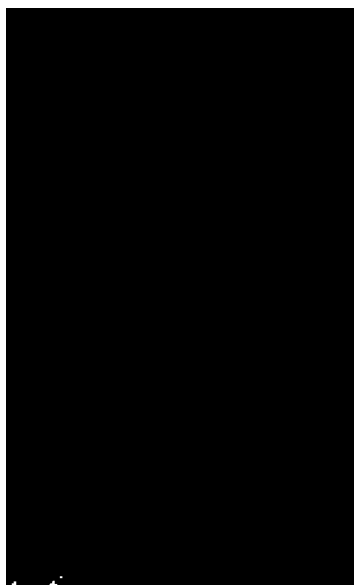
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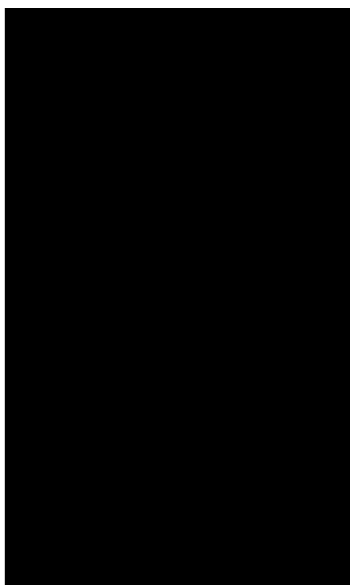
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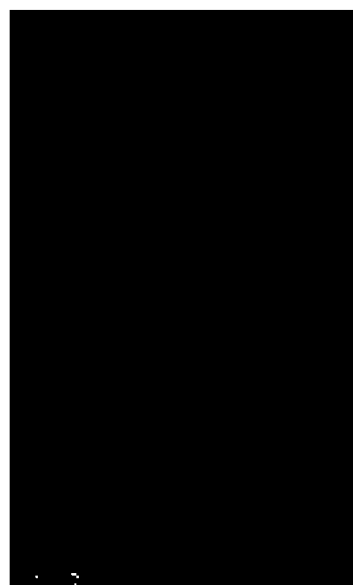
45 ( 55)



20 ( 80)

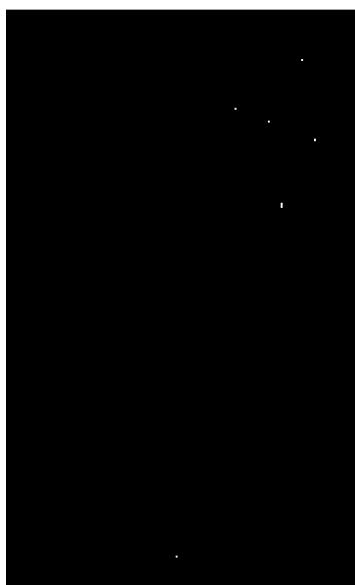


6 ( 94)

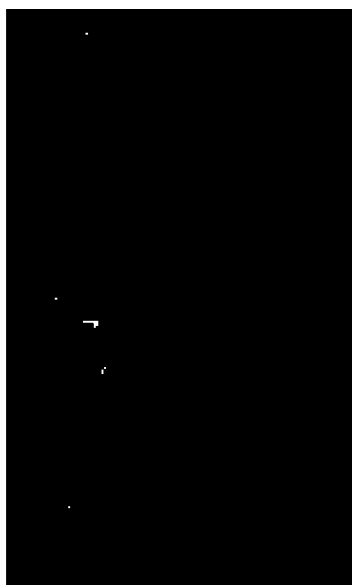


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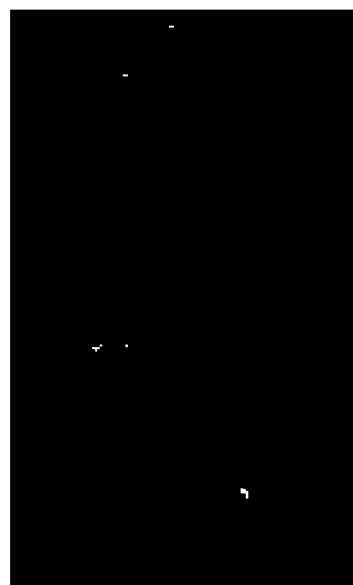
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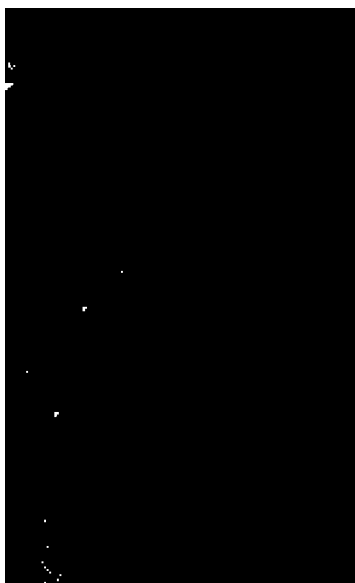
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96 ( 4)



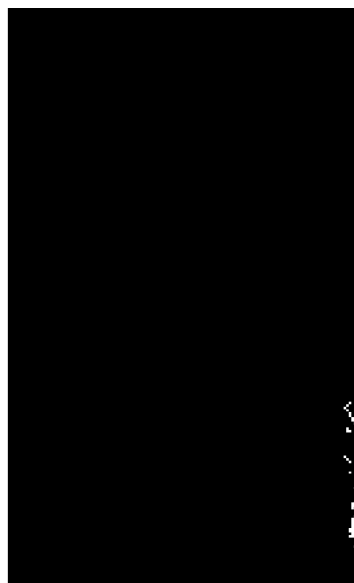
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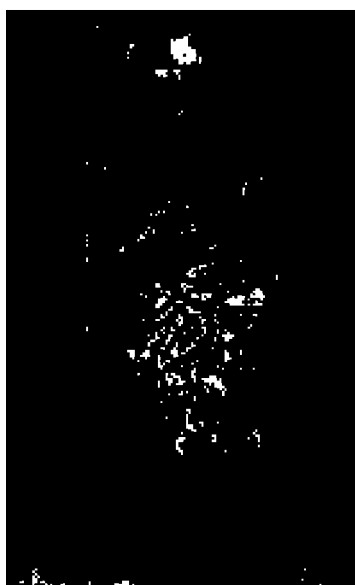
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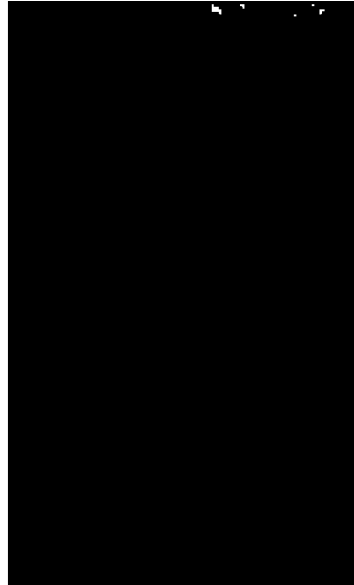
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20 ( 80)

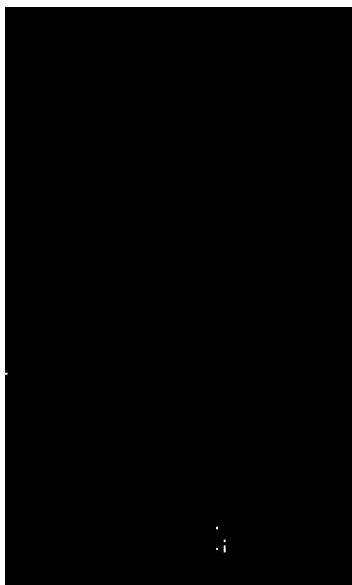


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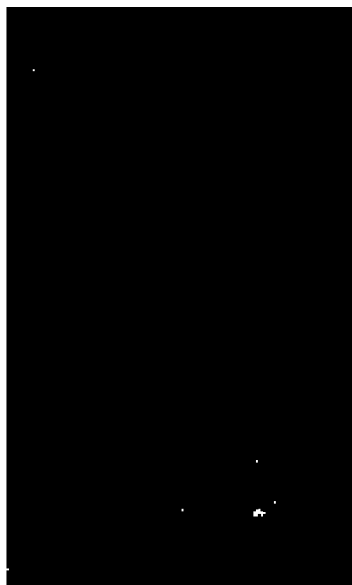


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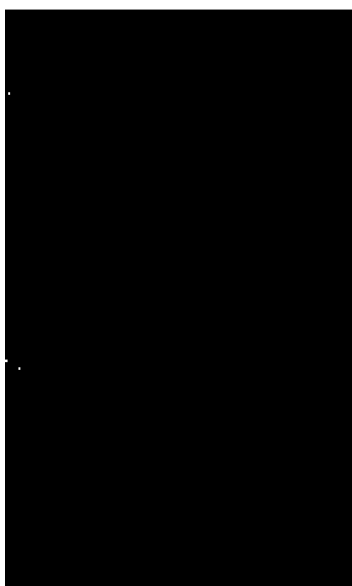
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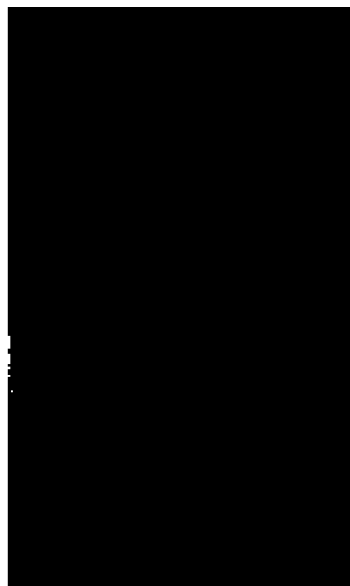
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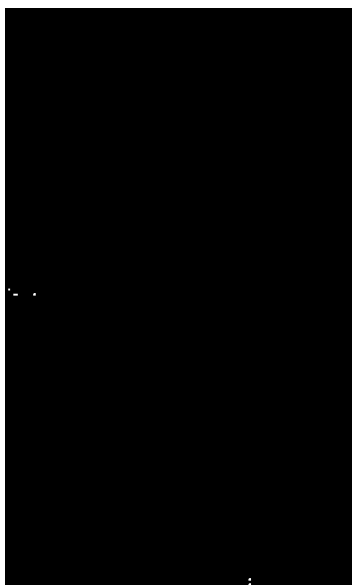
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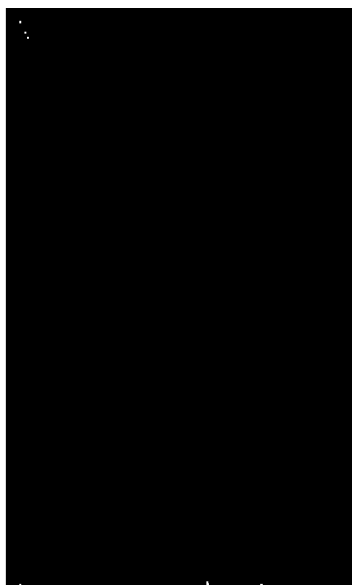
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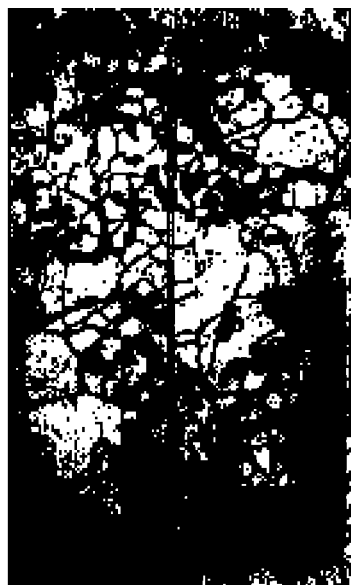
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20 ( 80)

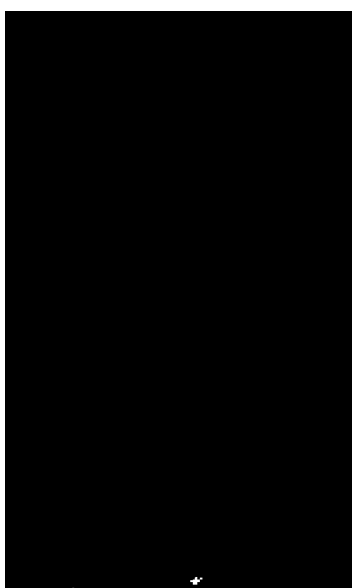


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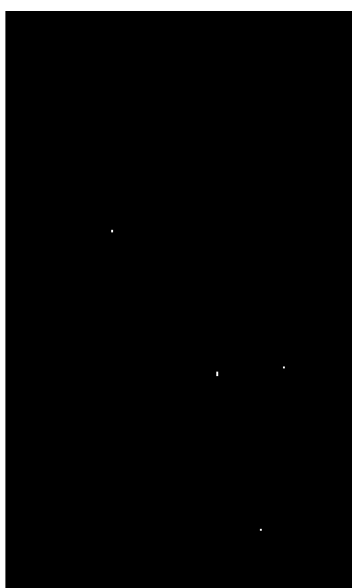


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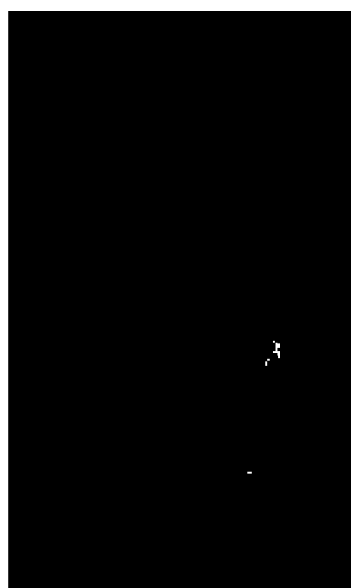
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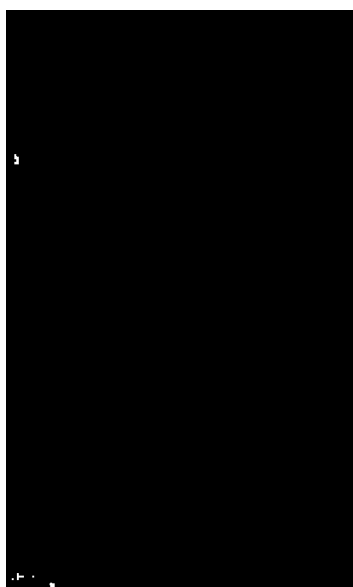
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96 ( 4)



92 ( 8)



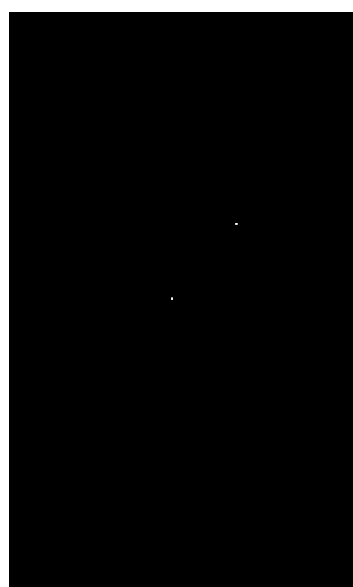
85 ( 15)



70 ( )



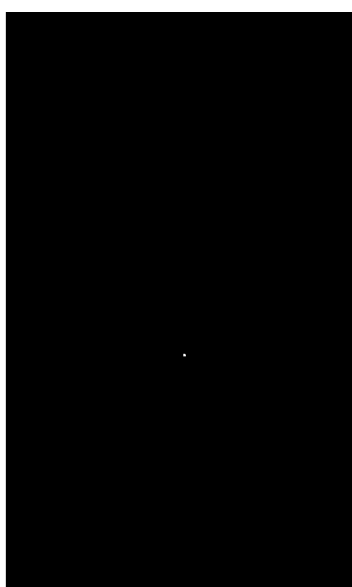
45 ( 55)



20 ( 80)

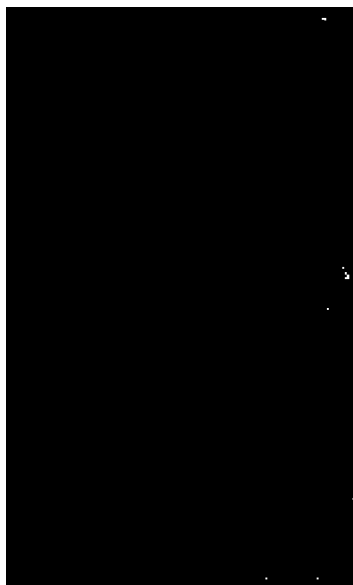


6 ( 94)

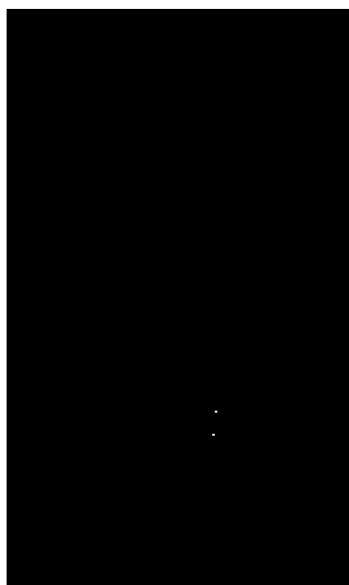


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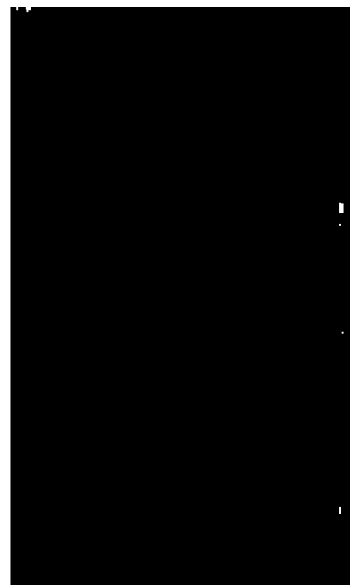
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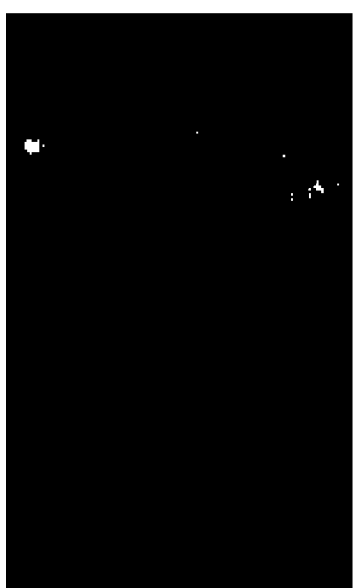
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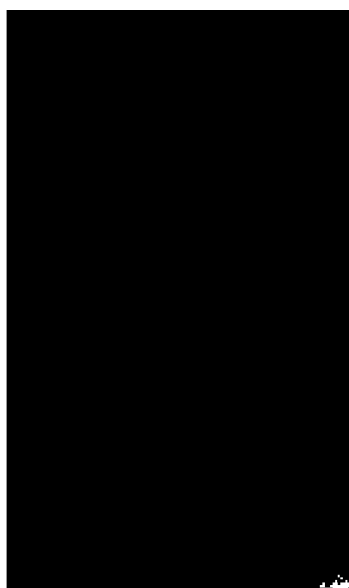
96 ( 4)



92 ( 8)



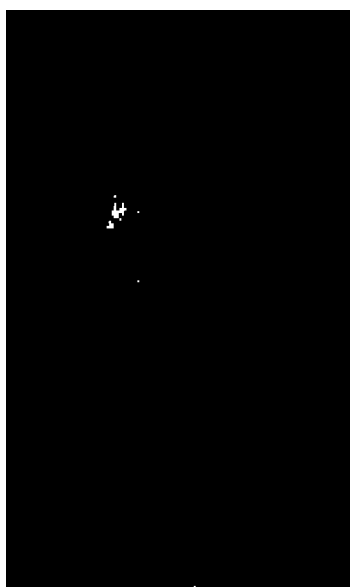
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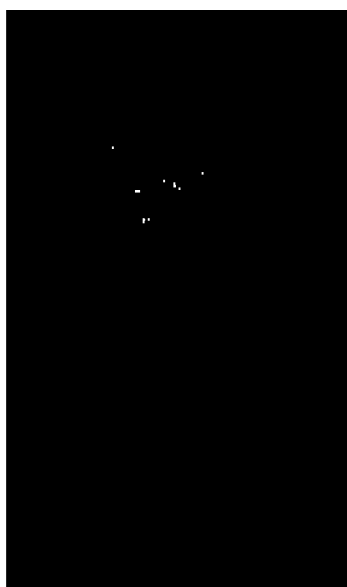
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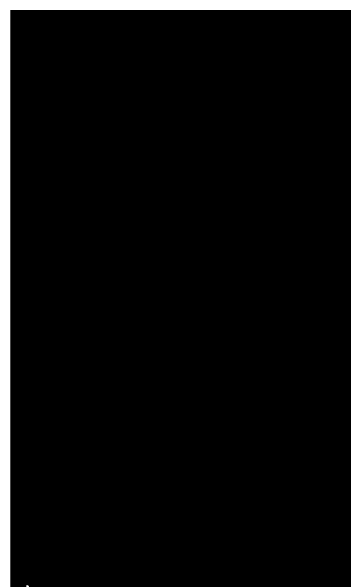
45 ( 55)



20 ( 80)



6 ( 94)



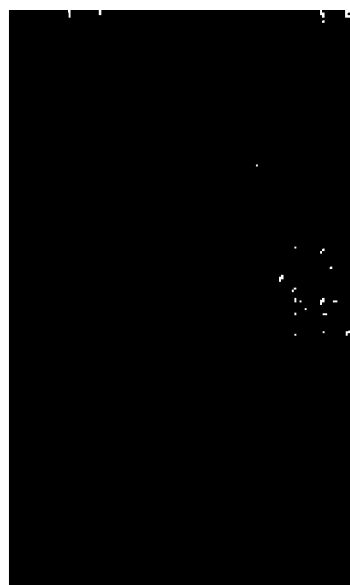
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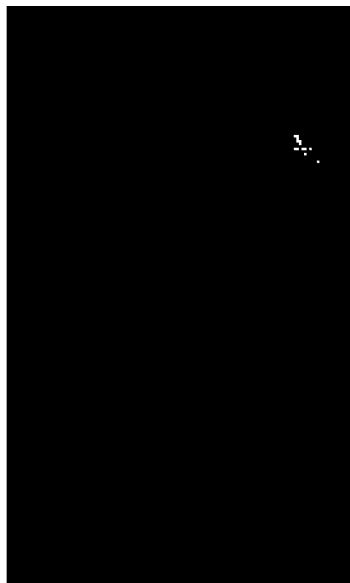
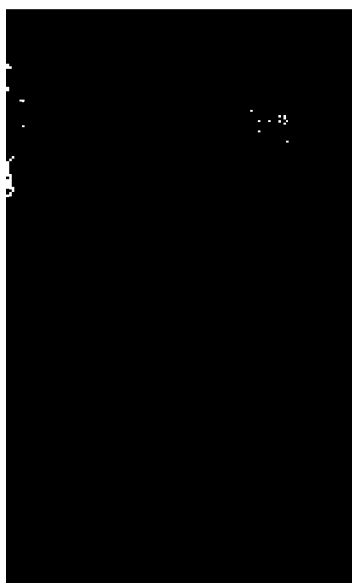


1



2

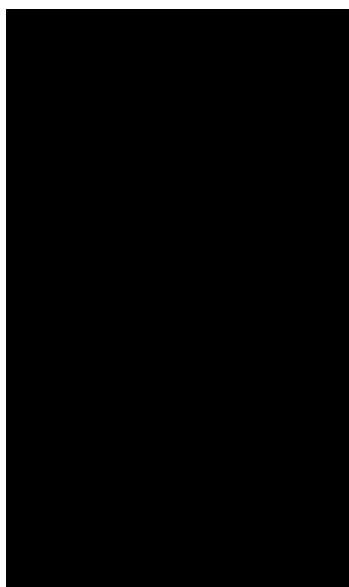




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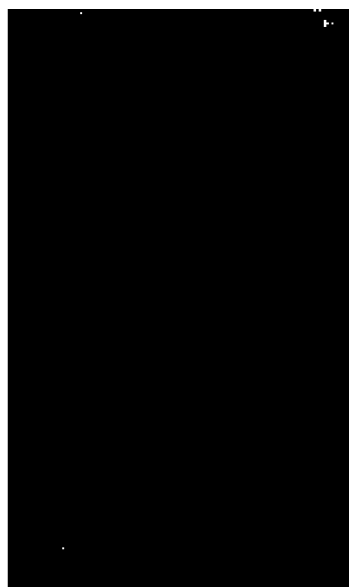
500



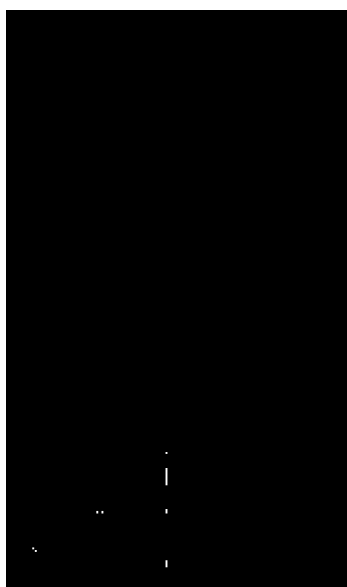
0,3



0,5



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1,4



1,6

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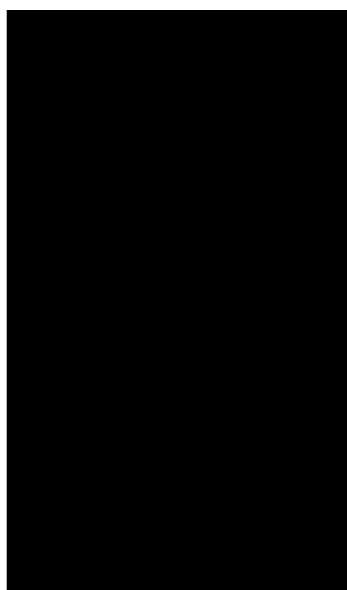
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1

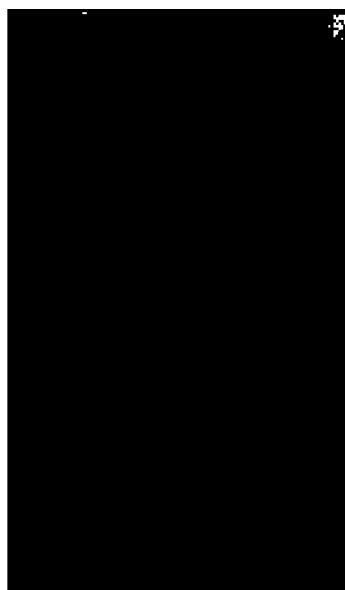


2





4

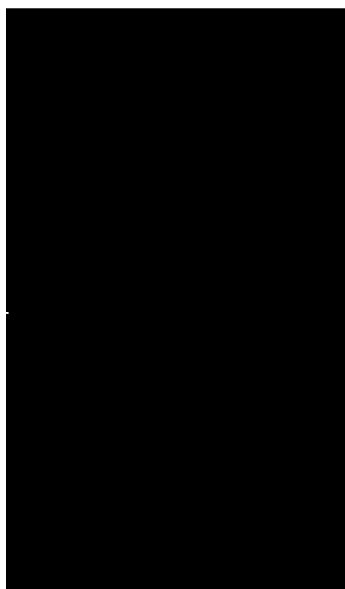


5

Травление:  
4 %-ным спиртовым  
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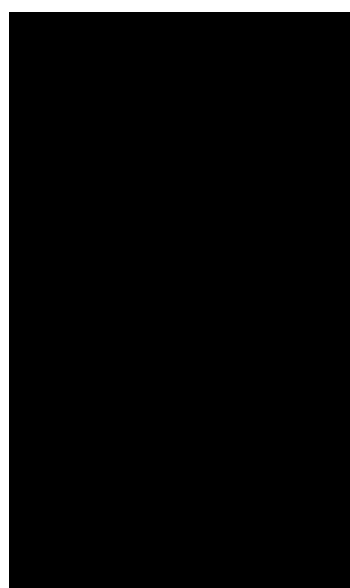
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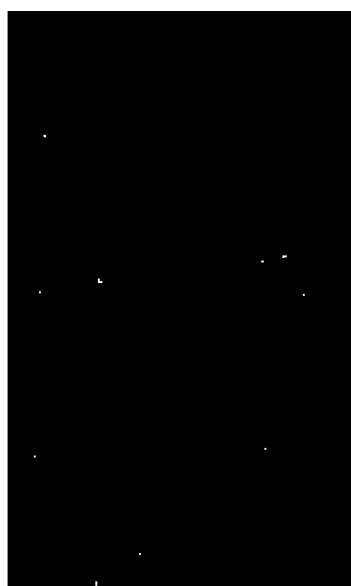


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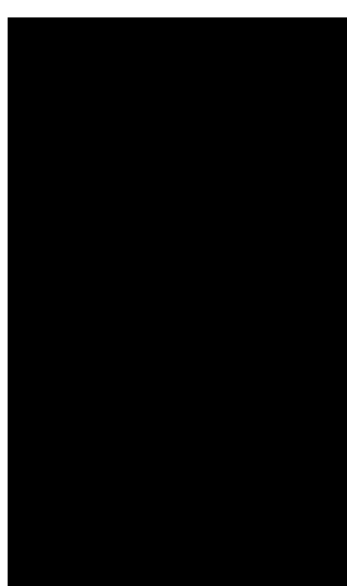
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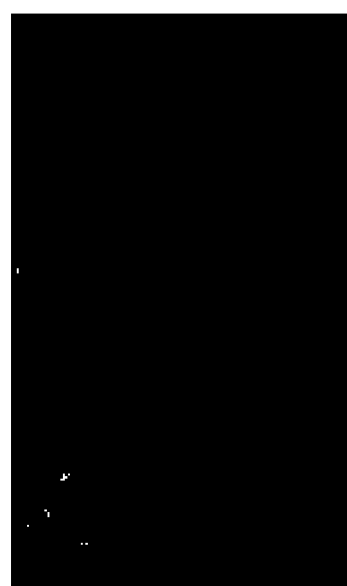
Ряд 1



1

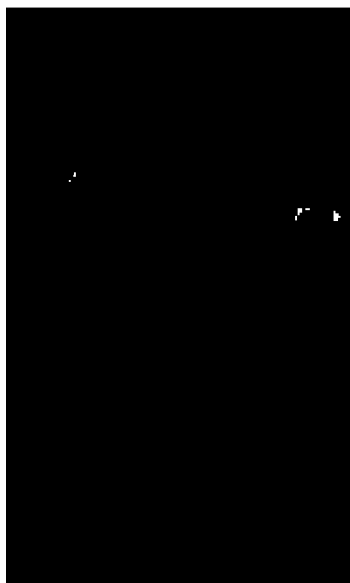


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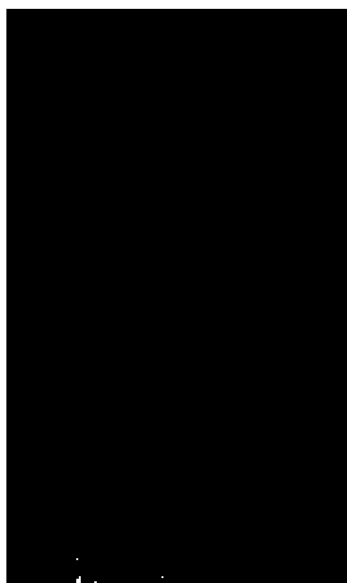


50

2



1

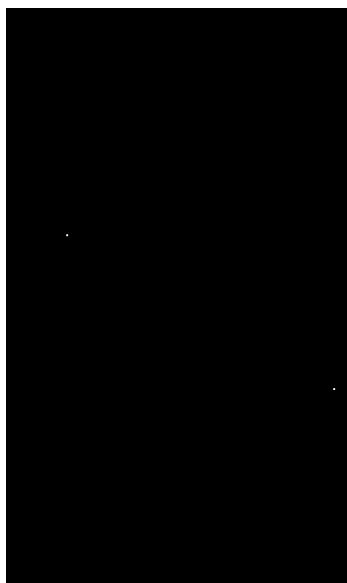


2

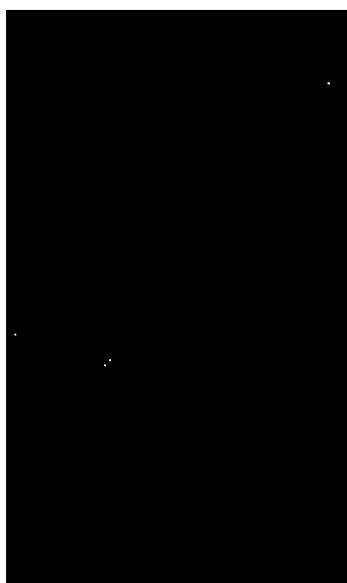


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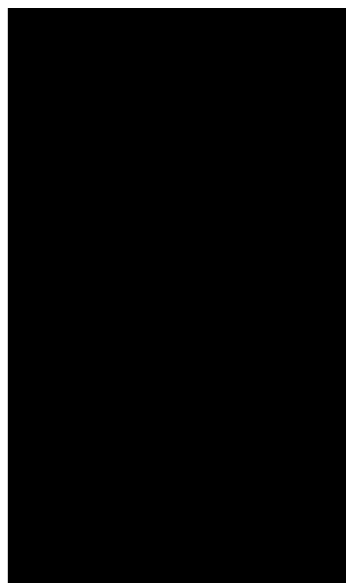
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250



400

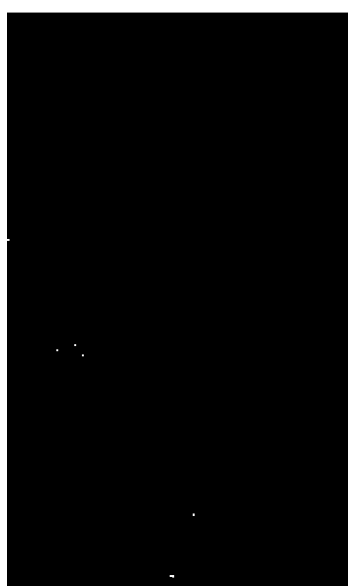


650

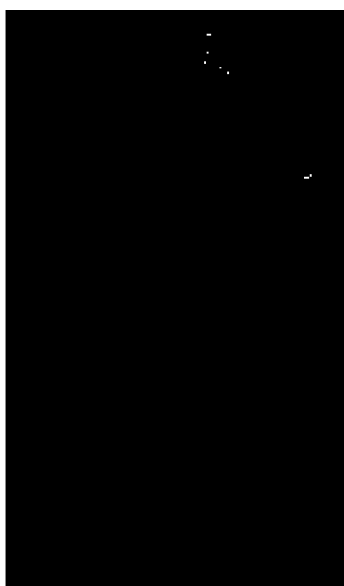


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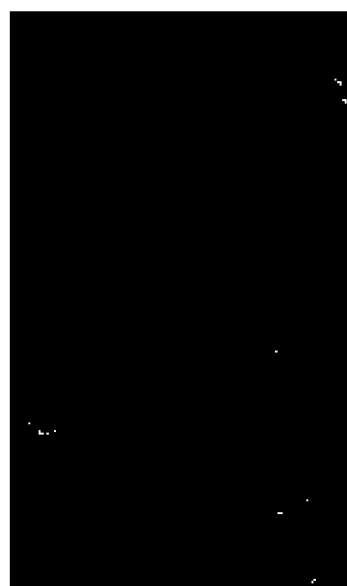
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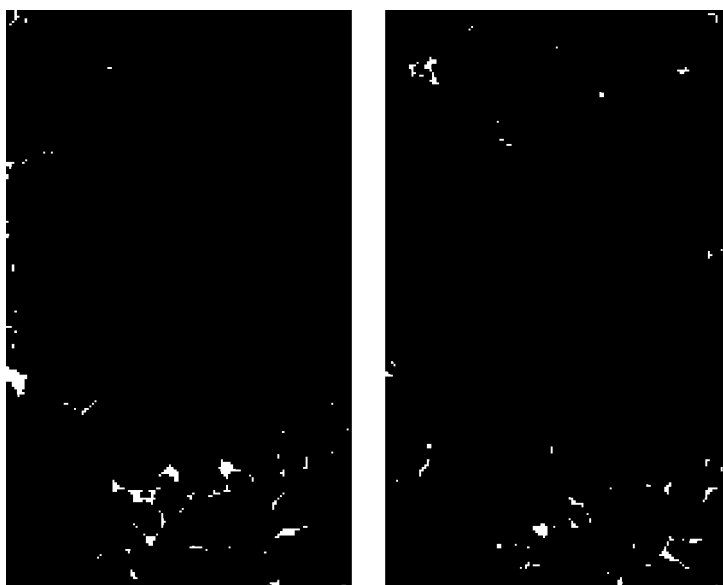
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400



650

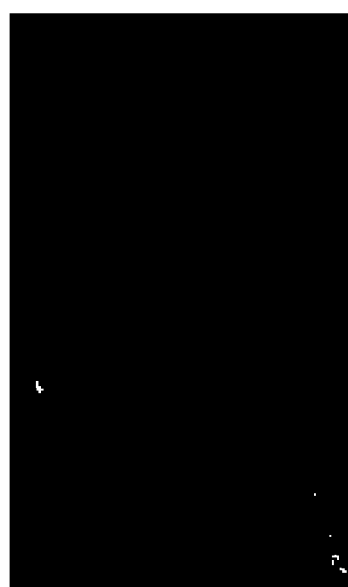
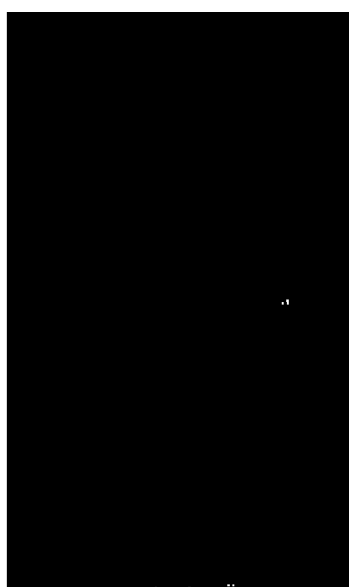


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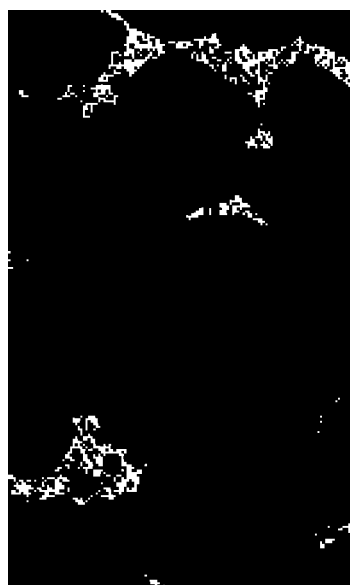
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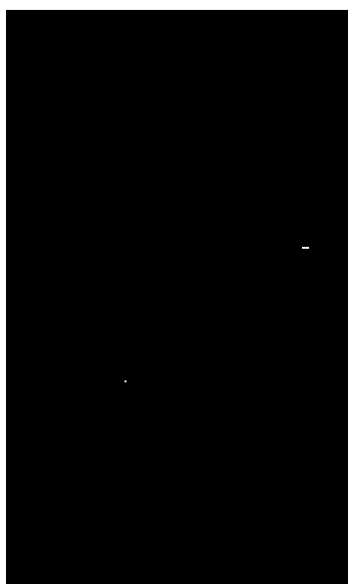
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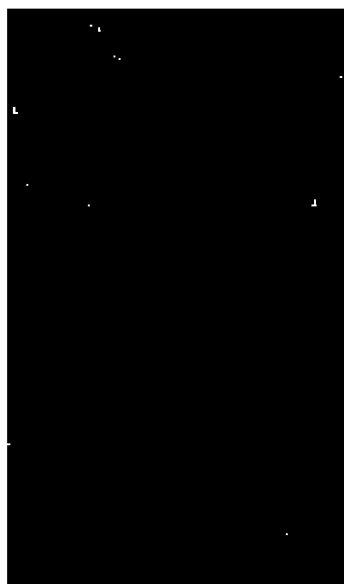
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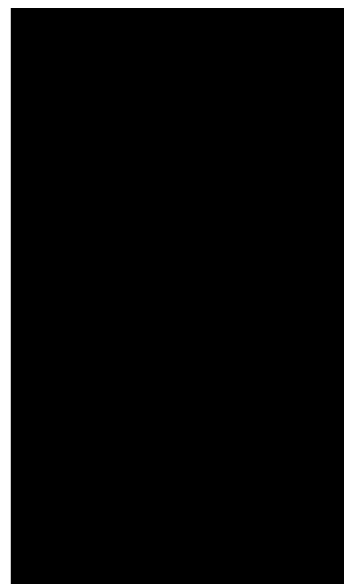
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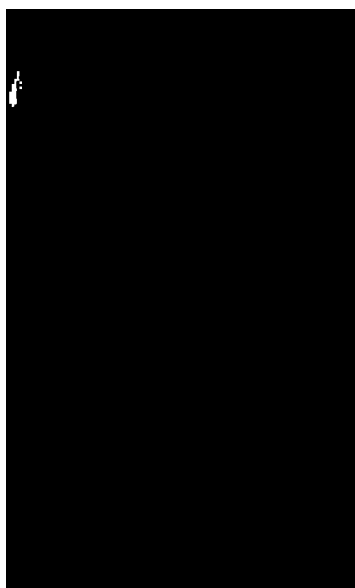


И25

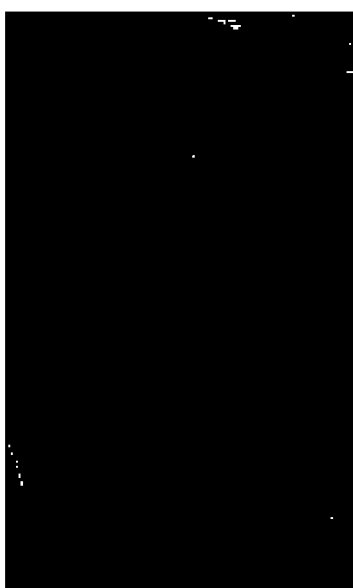


И40

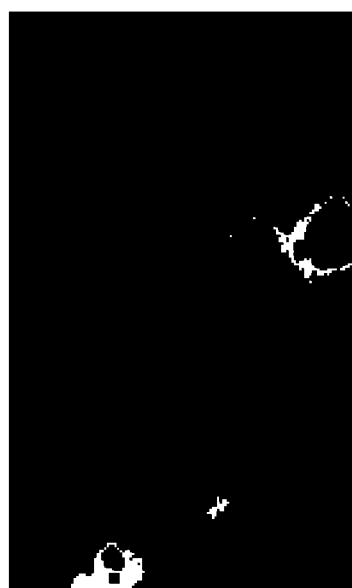
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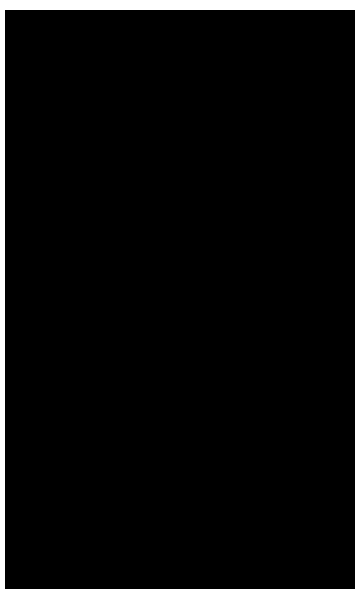
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ЦП 25000

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