

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).

945—75

1.1.

(),
).

1.2.

1.

1

		<p>1 ; ; ; (; ; (%),</p>

©

, 1987

©

, 2005

-	:	$\frac{1}{2}$
-	:	(), (%)
-	^ N. ^	1 2 4 5 () (2)
		(%), (2)

2

2.1.

(2)

2.2.

2.3.

24.

24.

— 0,2 2. 3 2, (9 2,
) 15—20 .

, ()

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3.

3.1.

3.2.

3.3.

3.

3.4.

,

3.5.

3.5.1.

3:

— 3, — 1, — 4.

1—4

2,

3.5.2.

— 1, — 4. — 2,

3.5.3.

— 2, : () — 1,
 — , — 4.

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		

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

3.5.6.

.4 2.

4

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

3

3.6.

3.6.1.

3.6.2.

5.

(+ = 100 %)

.5

6

3;

— 1,

— 2,

3,

— 4,

— 5.

3

5

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

		2.	
3.6.5.			
9 :	4,0 %-	—	1,
	70—80°	—	
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.	,		,
		8	9

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

3.6.9.		3.
.9	10	

9

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

2000 2 -) 1,0 % (-
« ».

3.6.10.

. 10 10 3.

10

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

40—50 ;
0,8 , 40 %

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

, 85 %; 80 % .

- 2 - 85 — 80.

945-75

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

945-75

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

()

945-75

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

,	-	4 %- (4 3 HNO ₃ 96 3) 4 %- (4 96 3)	-
,	1 95 3 2 %- HNO ₃	5—10	,
	88 3 20 70 3 20	(2 , 10 NaOH, [2 K ₃ Fe(CN) ₆ 25 70 3 20]	70—80 ° 4 %- 70—80 ° 4 %-
,	4 %- (10 HNO ₃ 90)	10 %- -	,

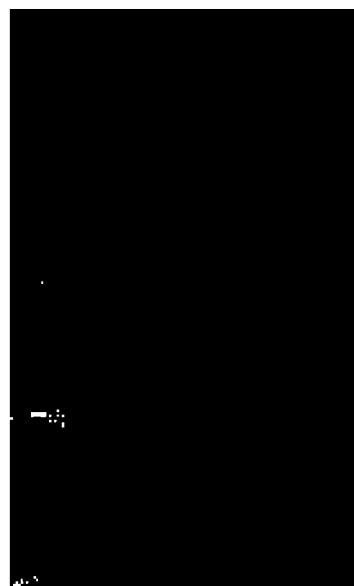
1000

(0)

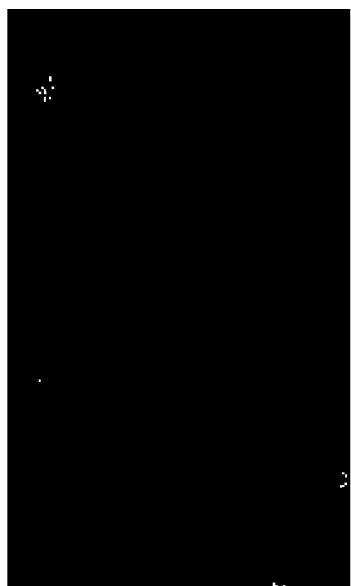
$$= \frac{1000}{2}$$

— 1.

100



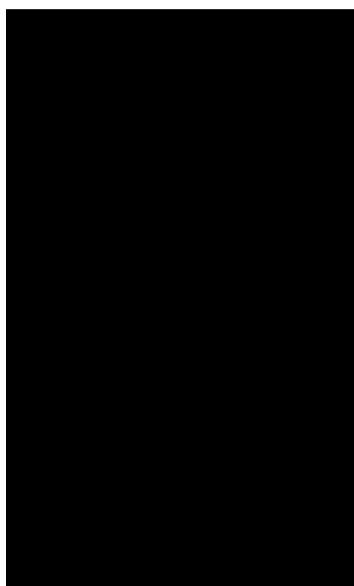
ПГф1



ПГф2

Игольчатая

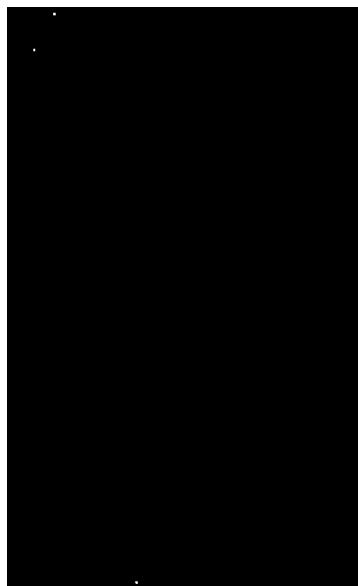
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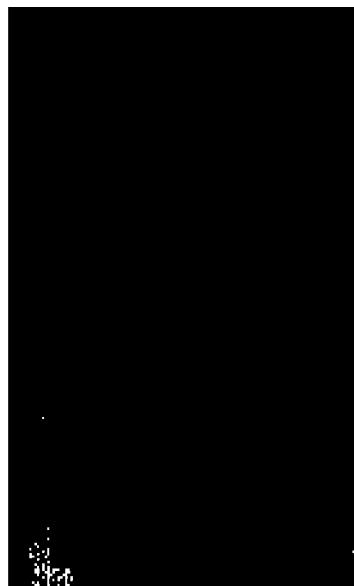
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3443-87

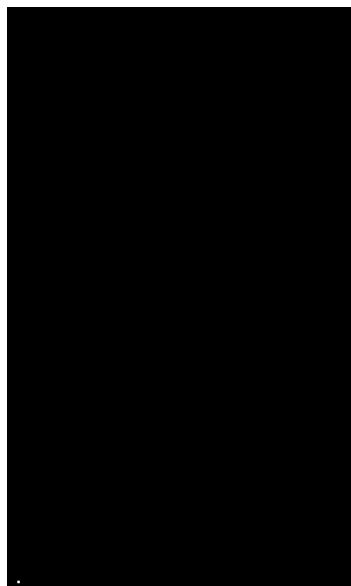
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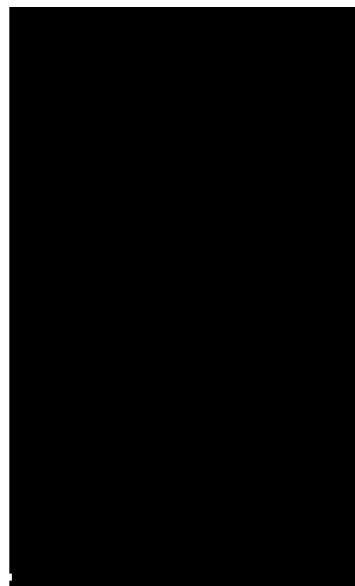
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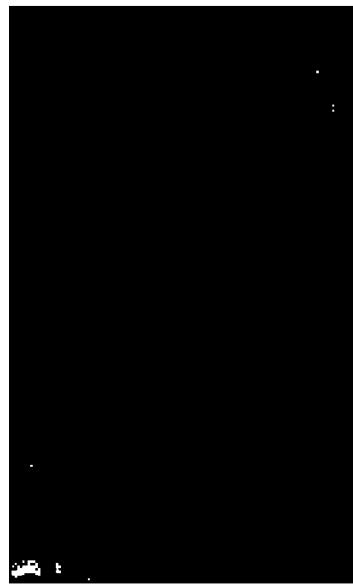
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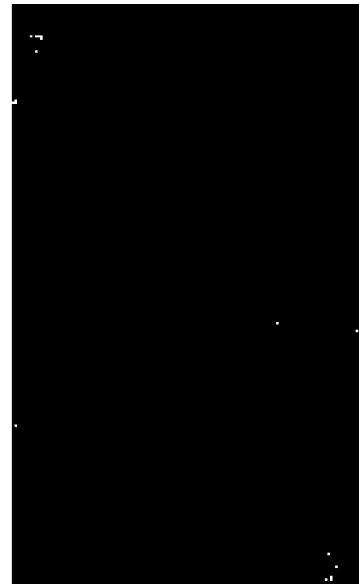
ПГд180



ПГд350

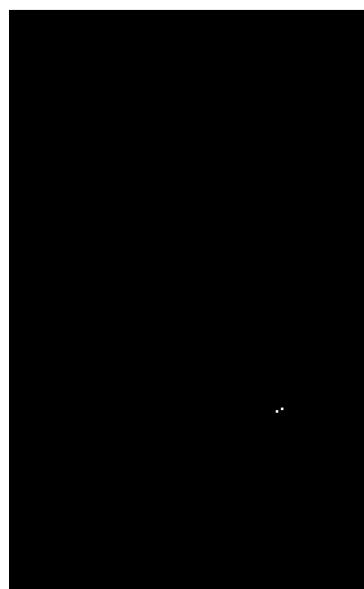


750



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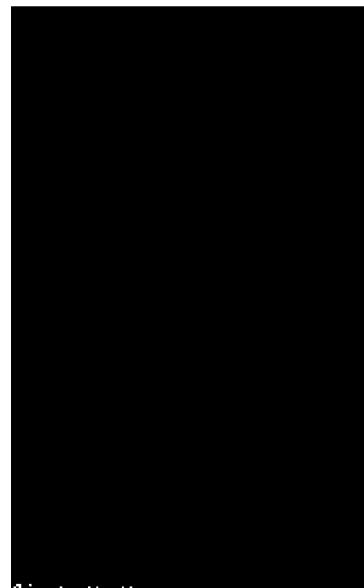
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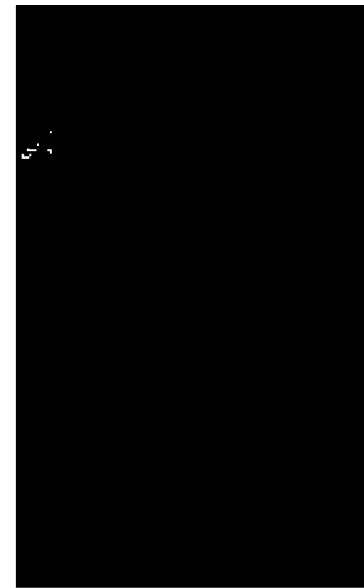
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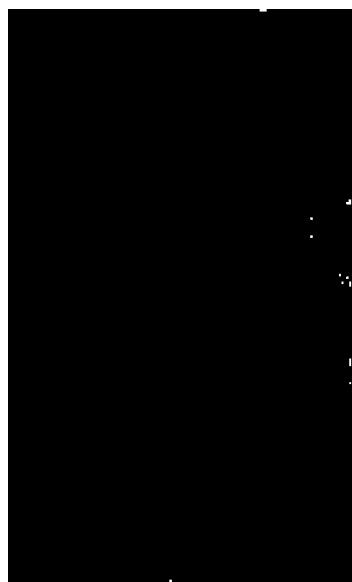


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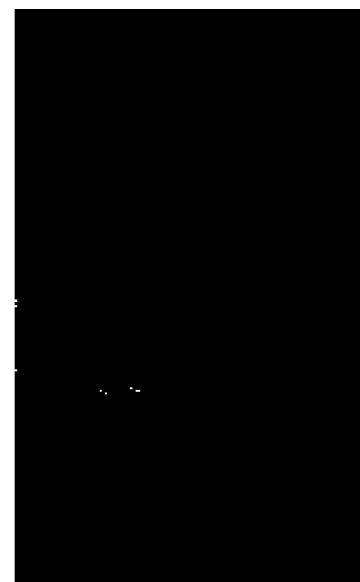




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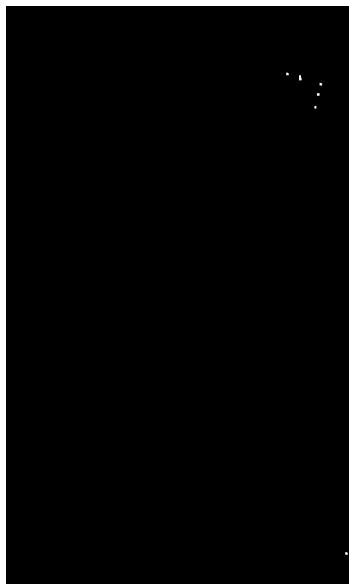


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3443-87

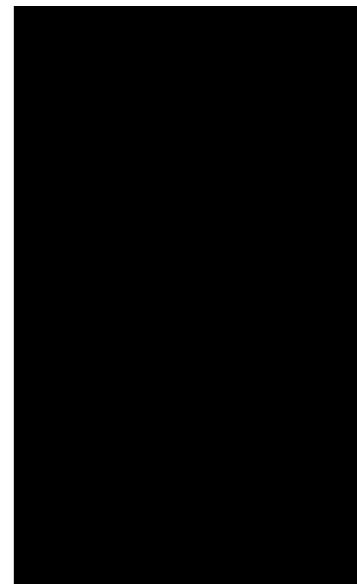
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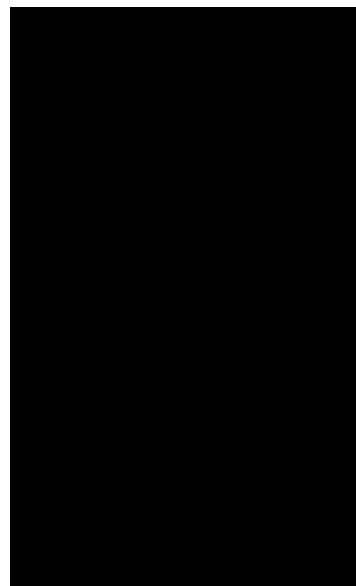
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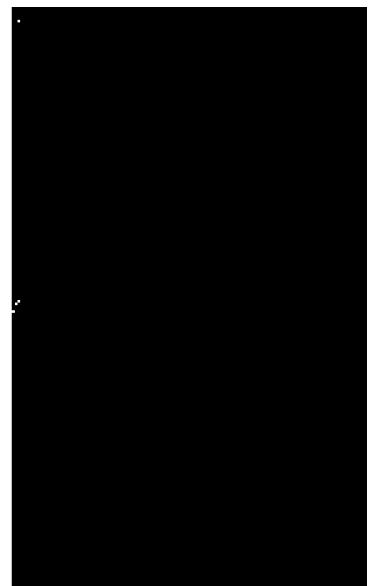
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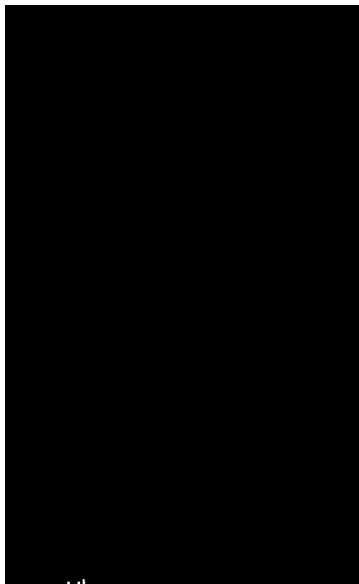
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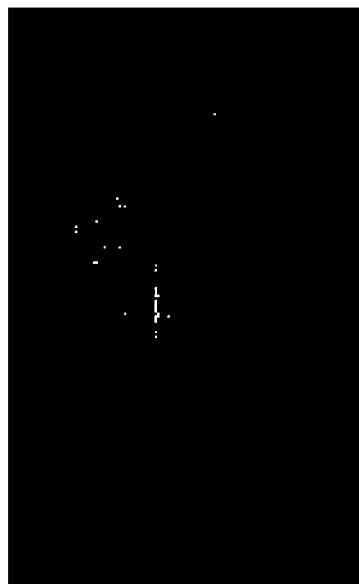
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— 2.

100



1



2



ВГФ3

100



1

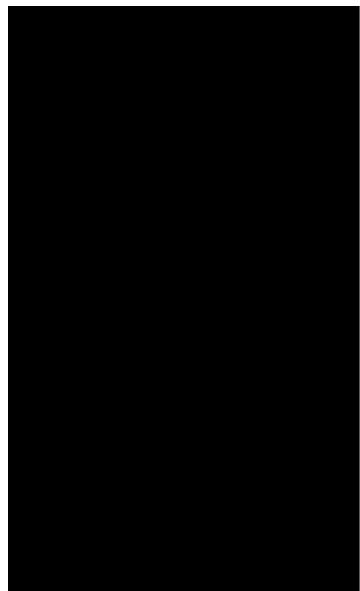


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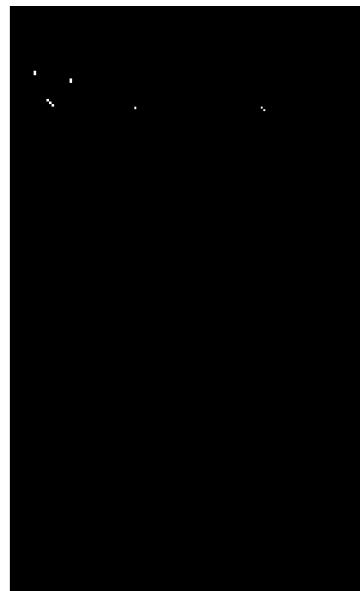


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3443-87

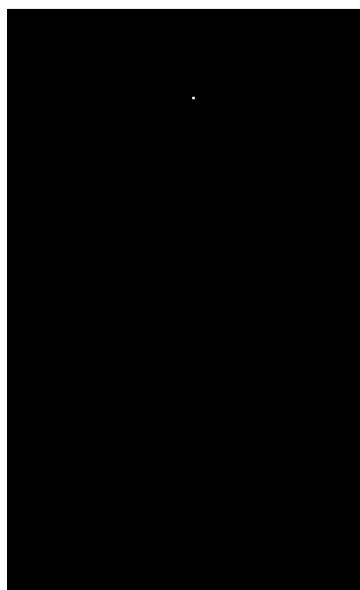


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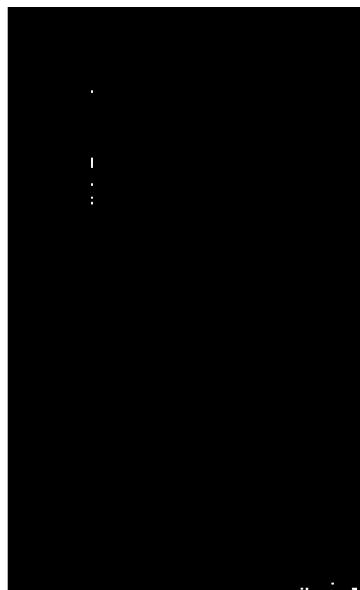


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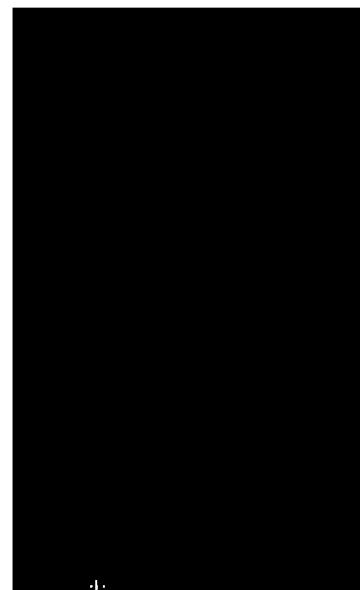
(%)



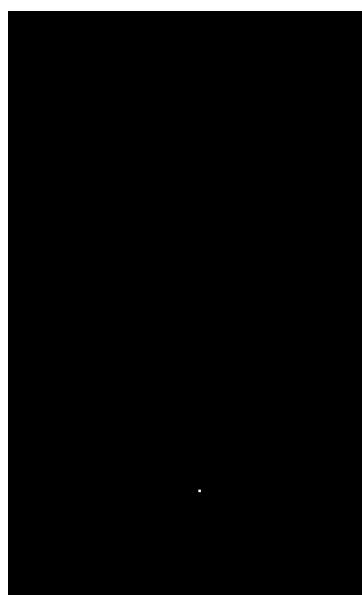
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98



92



85



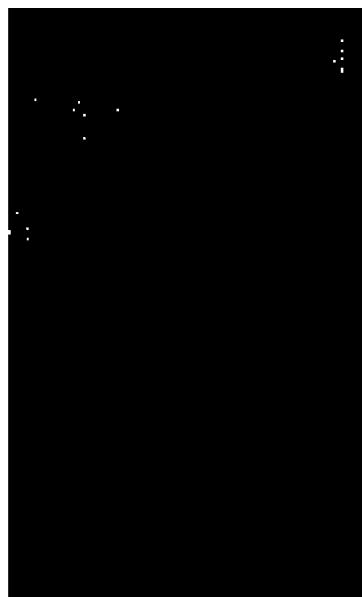
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— 3.

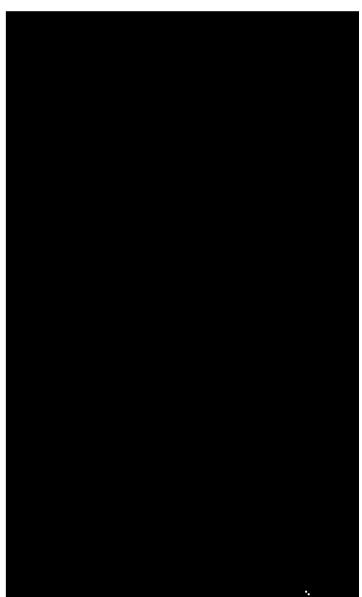
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1

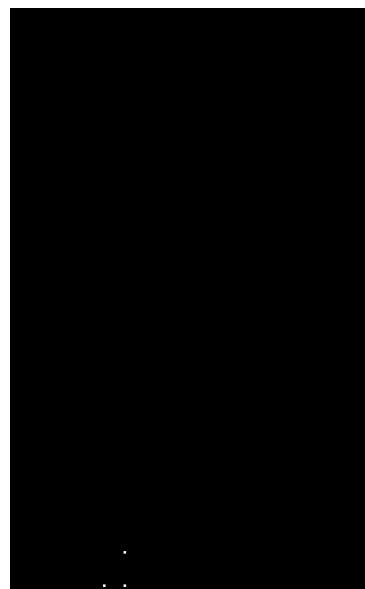


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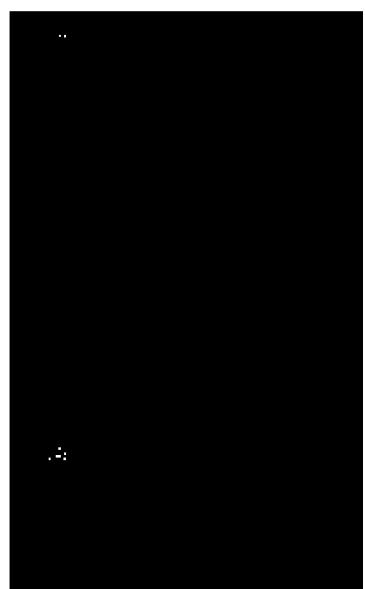


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3443-87



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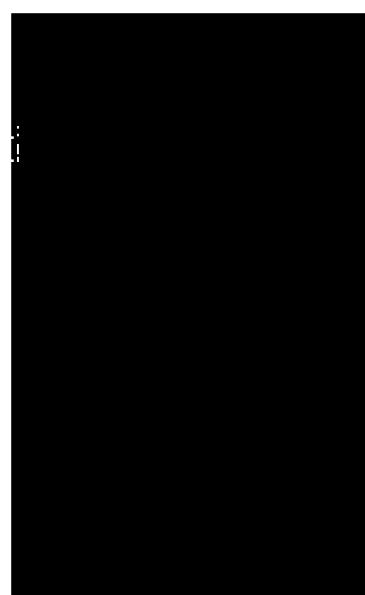


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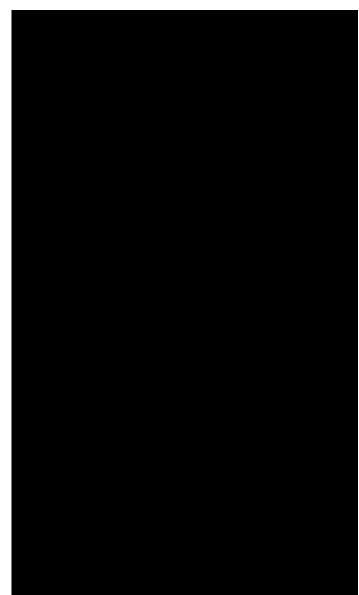
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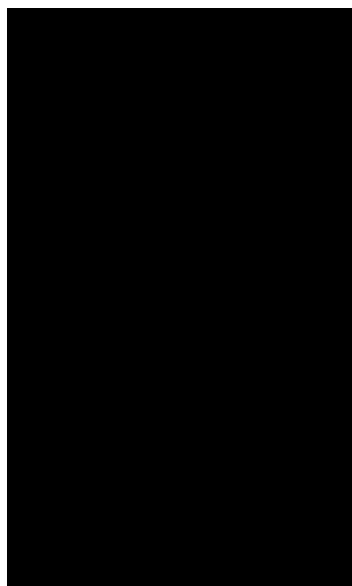
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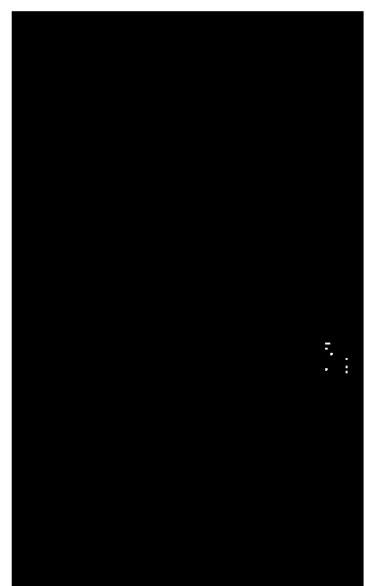
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45



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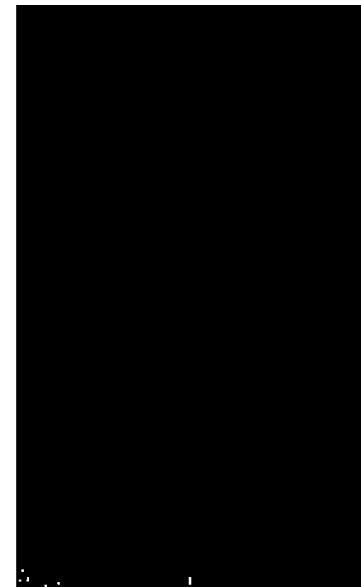
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100



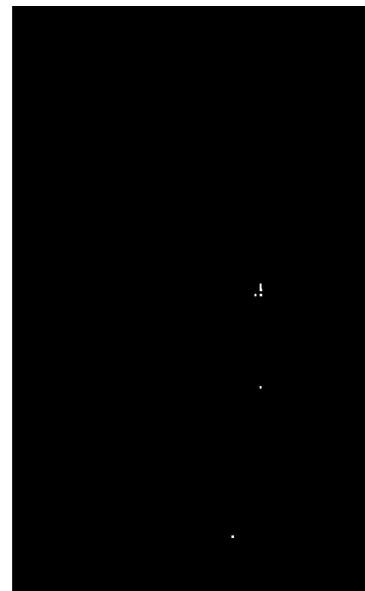
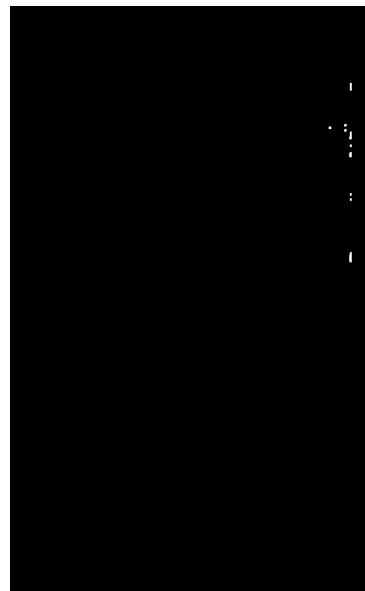
1



2

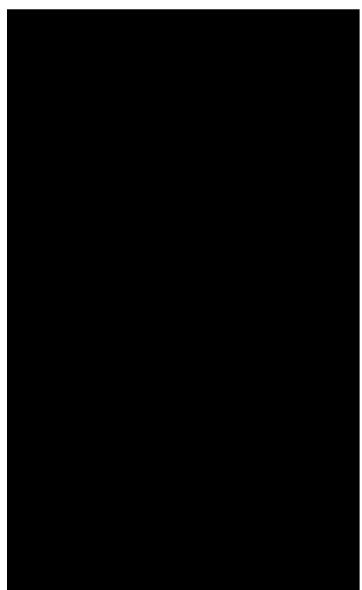
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3443-87



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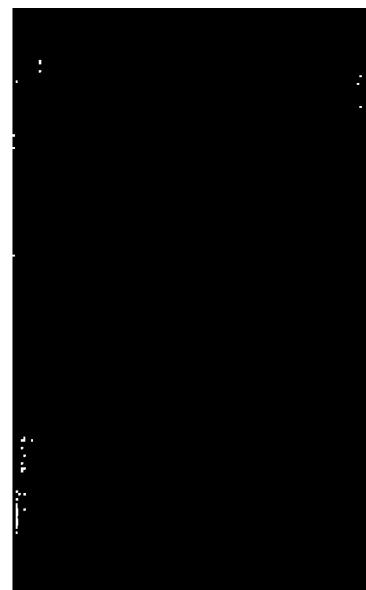
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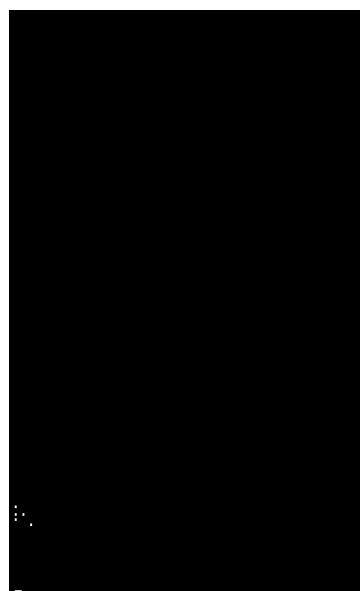
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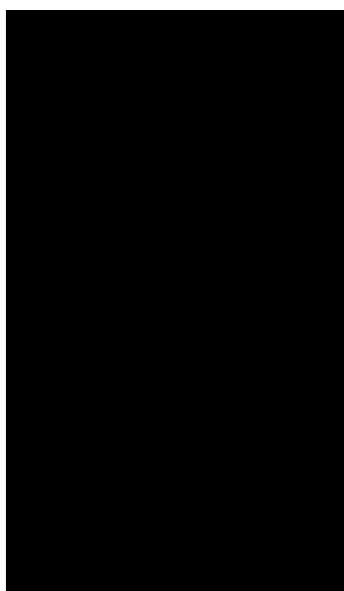
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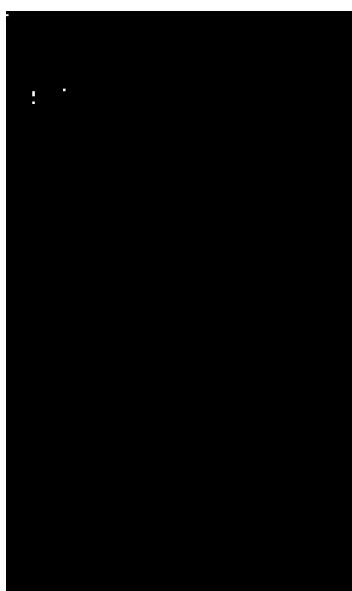
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100



1



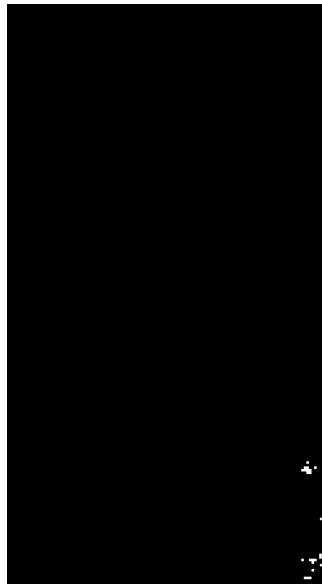
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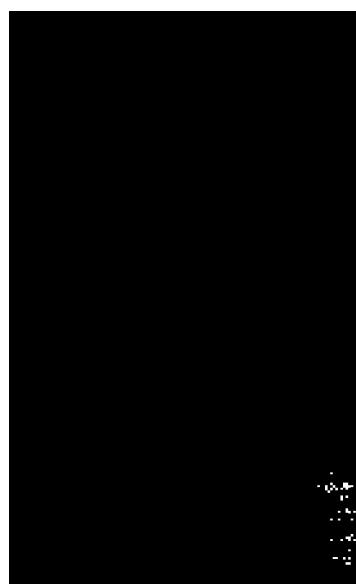
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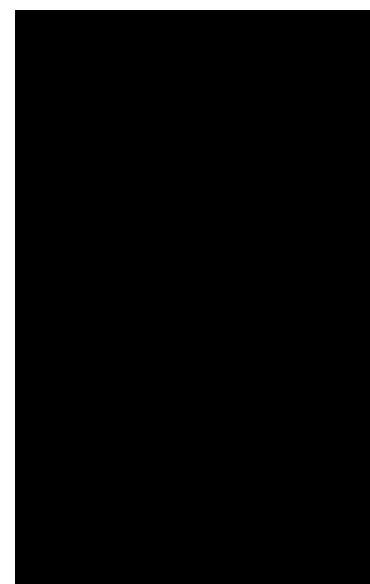
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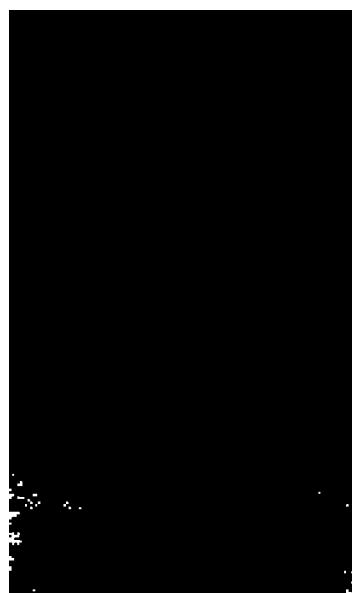
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КГд25



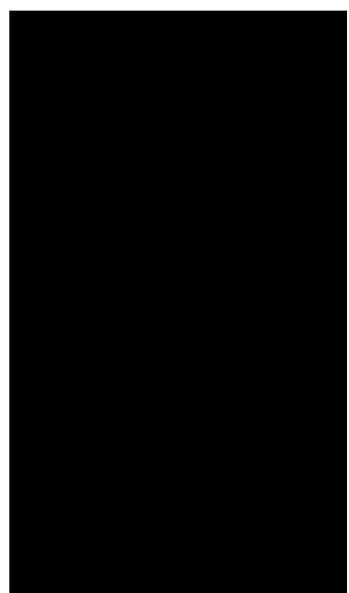
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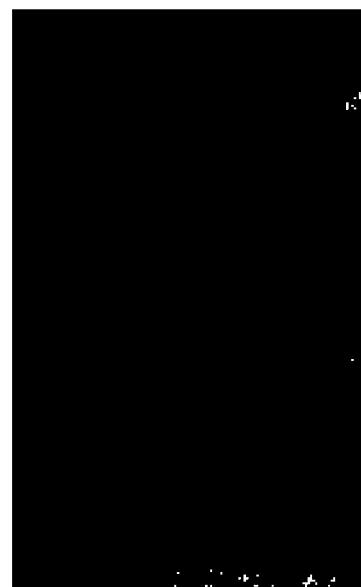
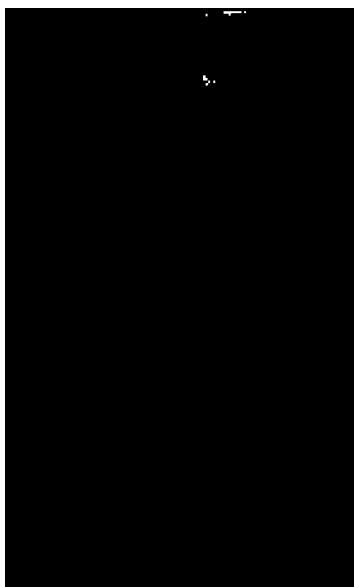
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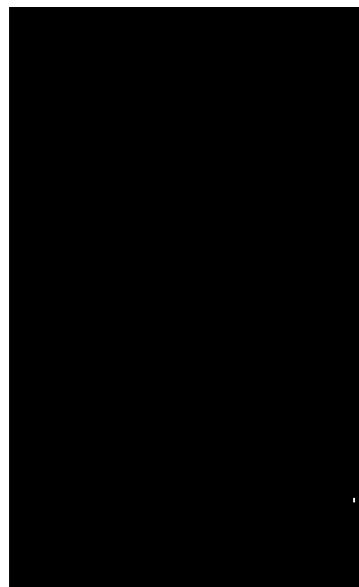
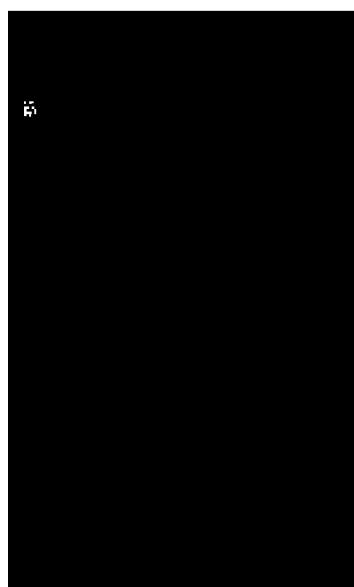
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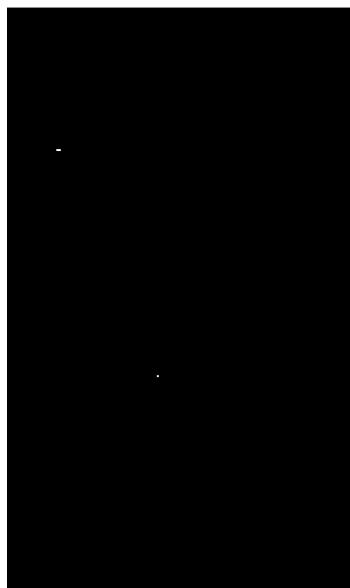


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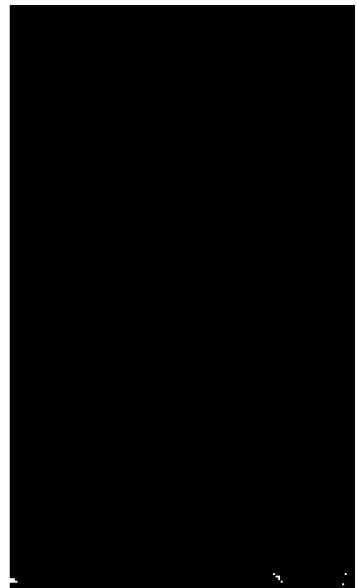
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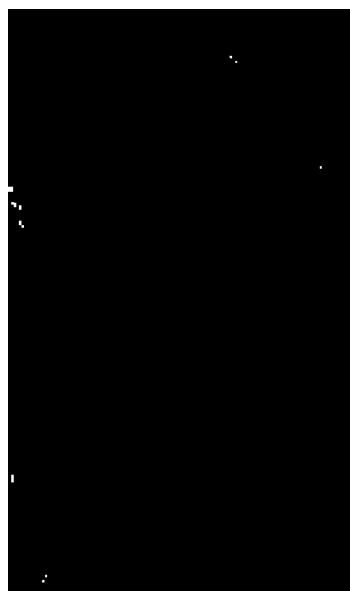
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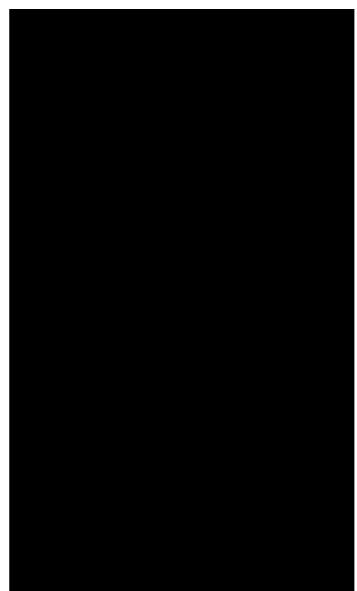
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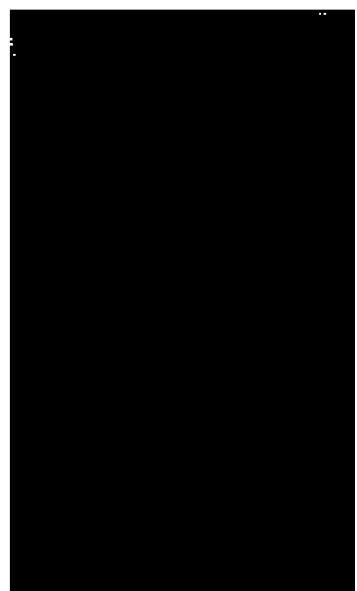
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85 (15)



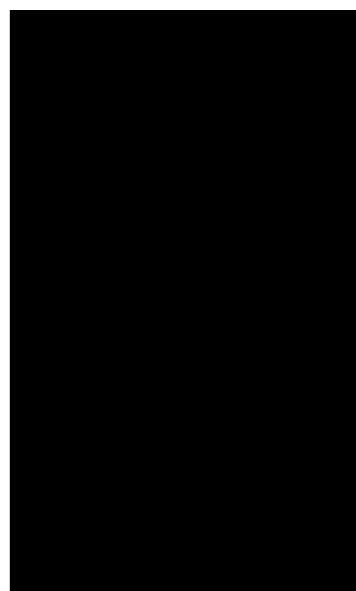
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45 (55)



20(80)

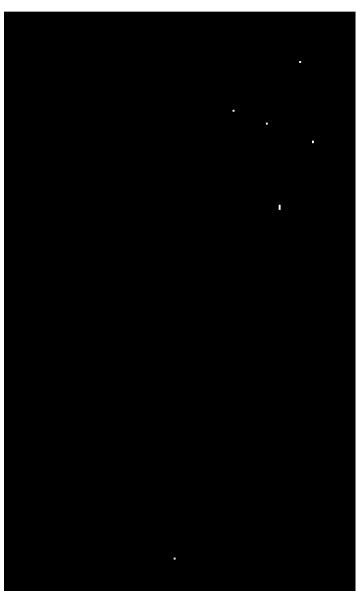


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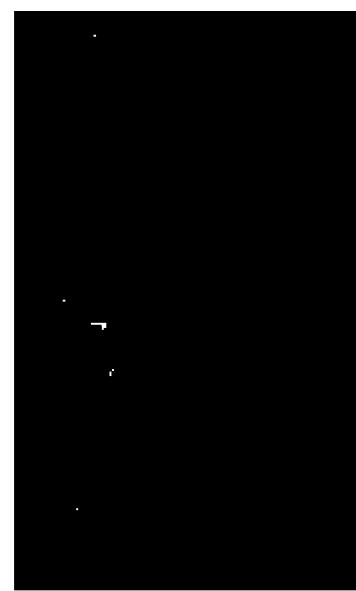


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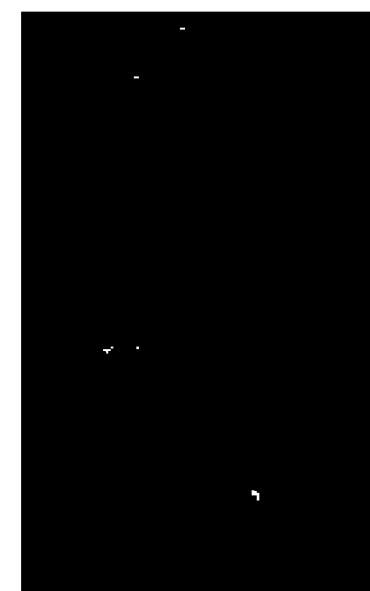
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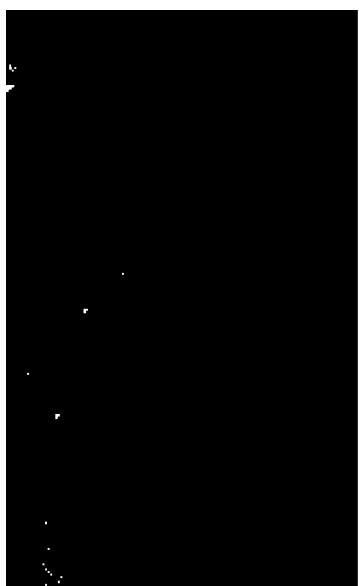
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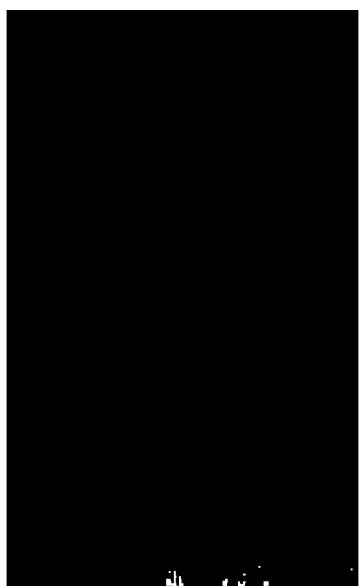
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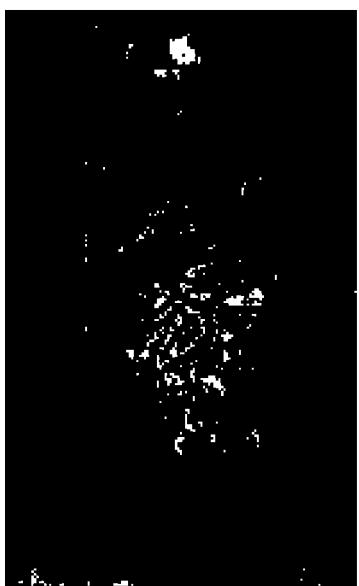
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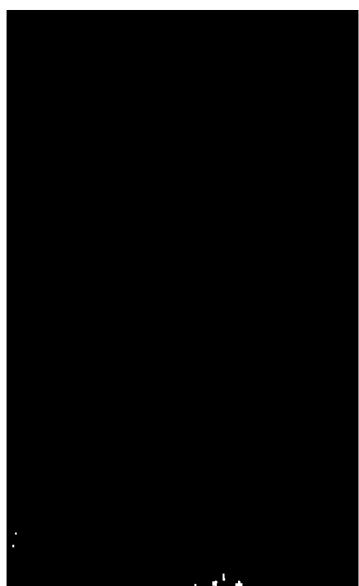
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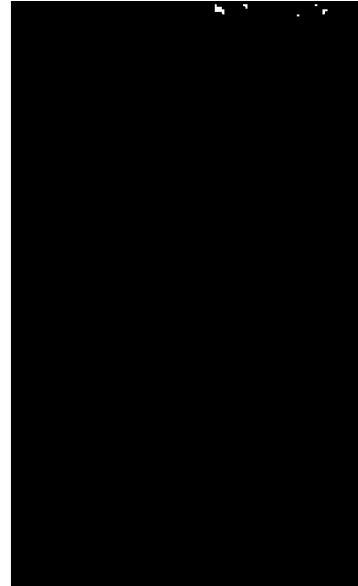
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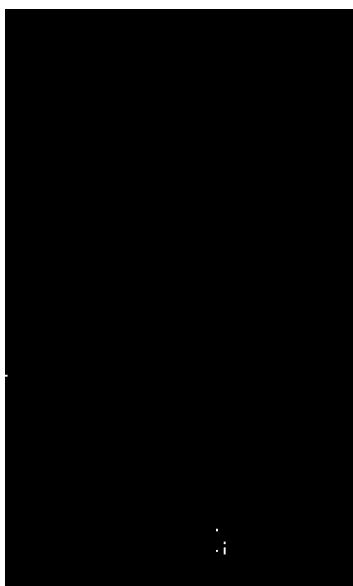
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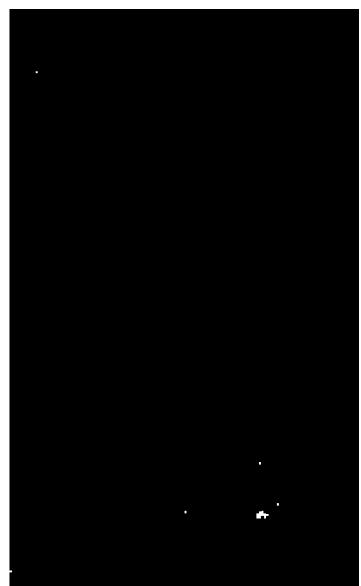
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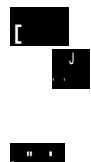
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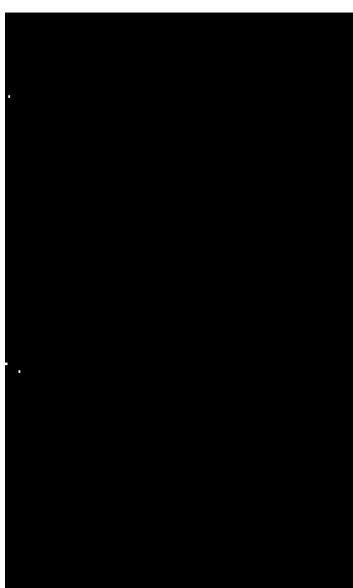
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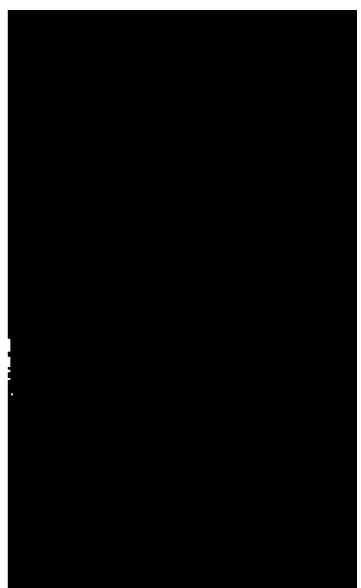
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85 (15)



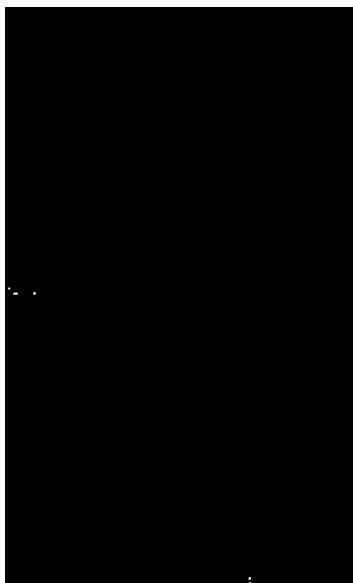
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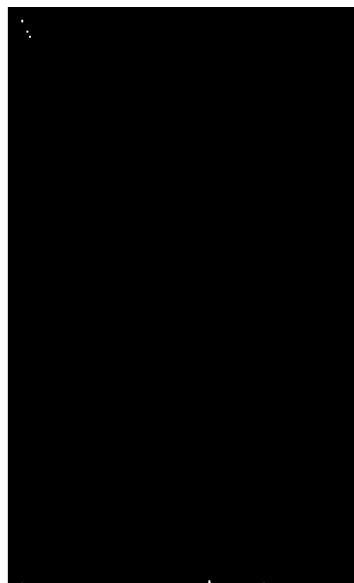
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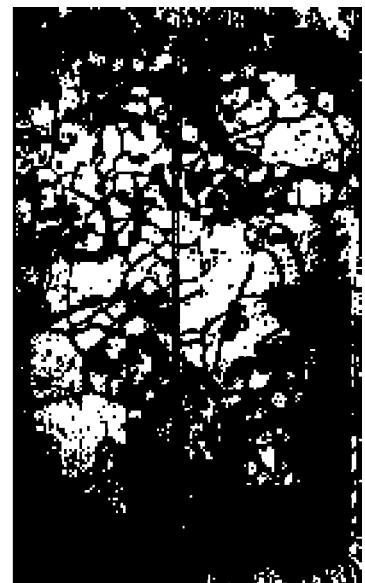
3443-87



20 (80)

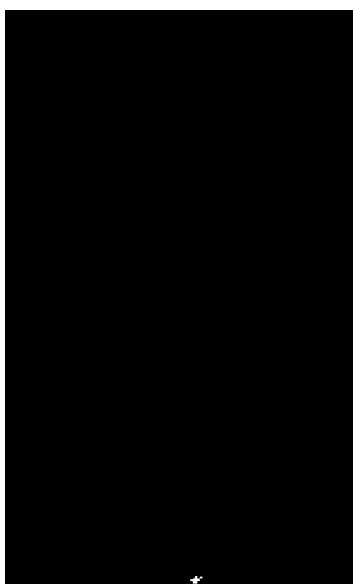


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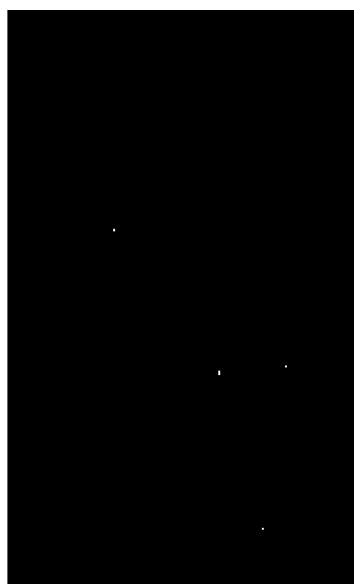


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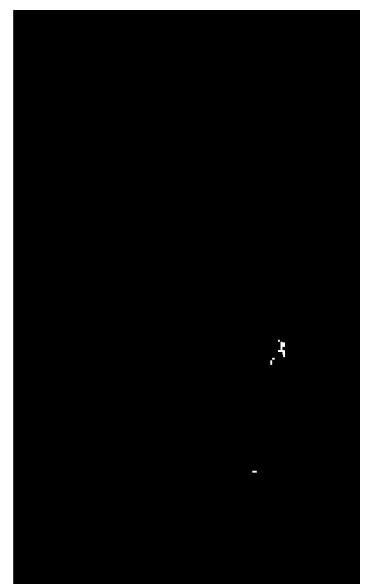
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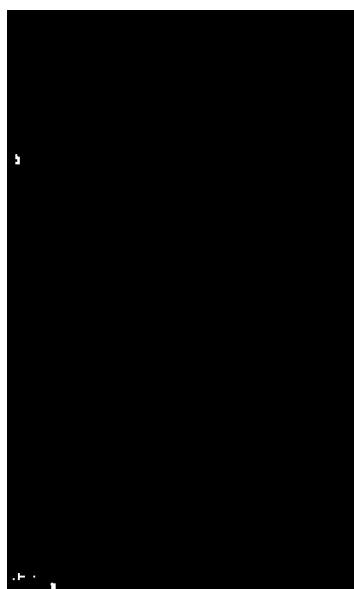
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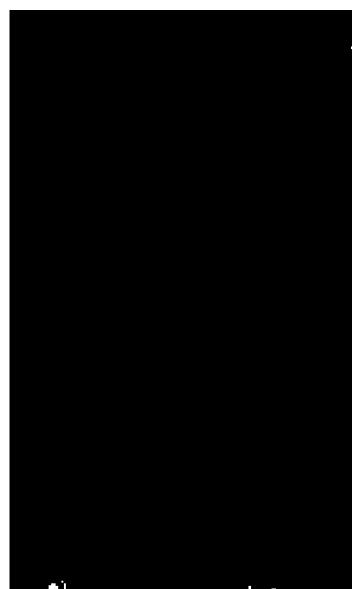
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92 (8)



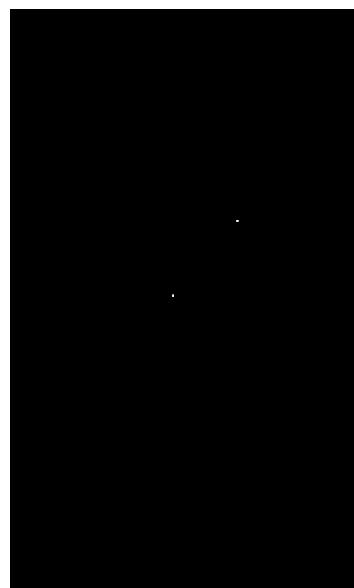
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70 ()



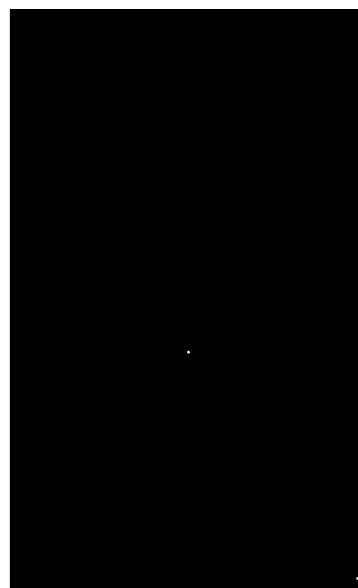
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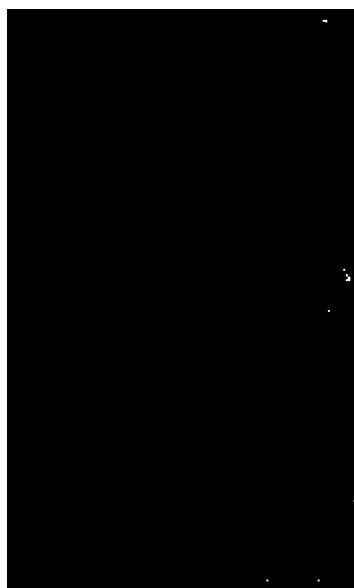
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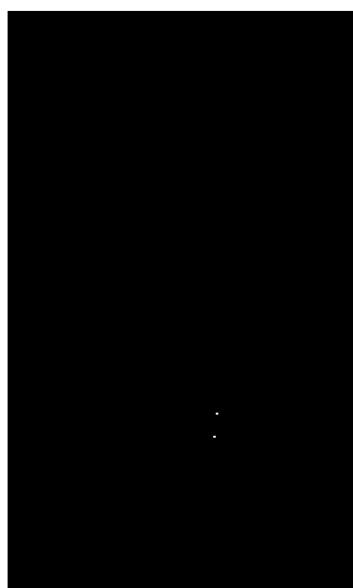
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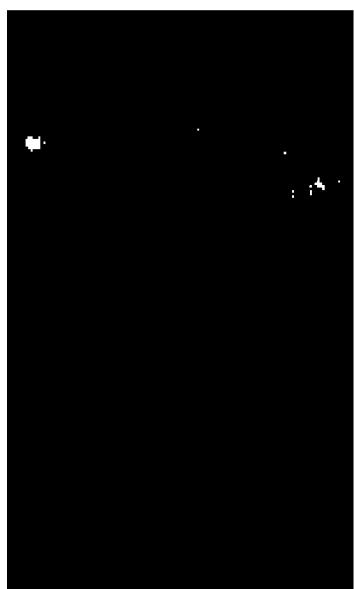
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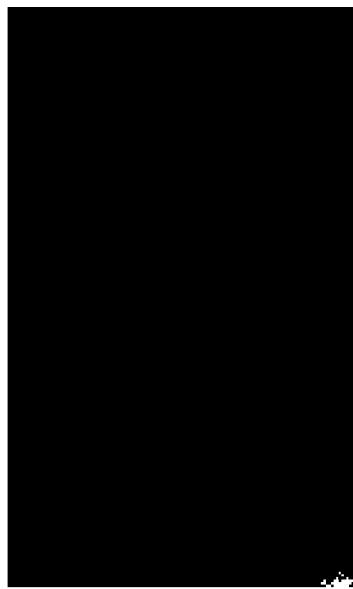
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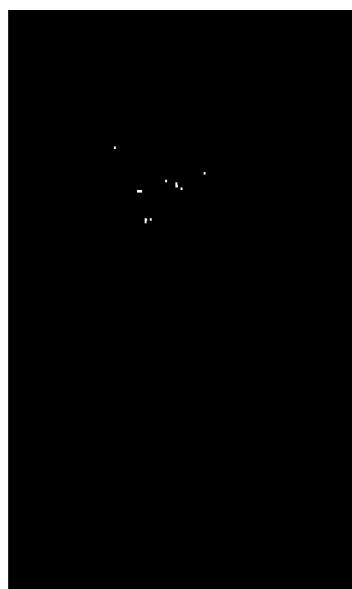
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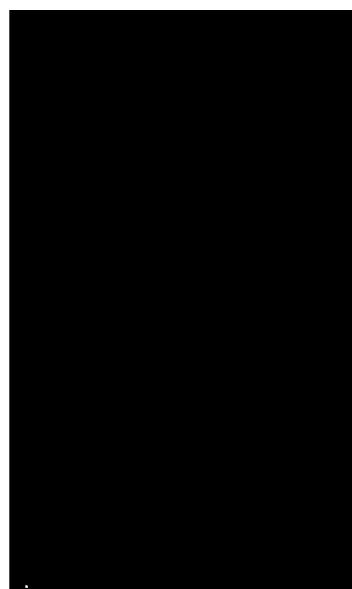
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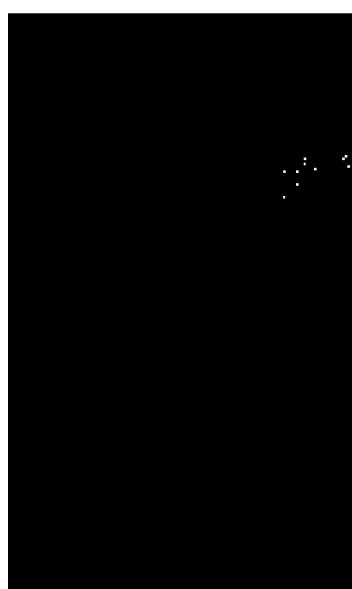
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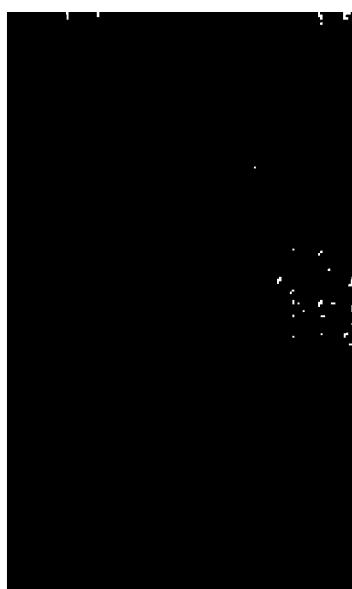
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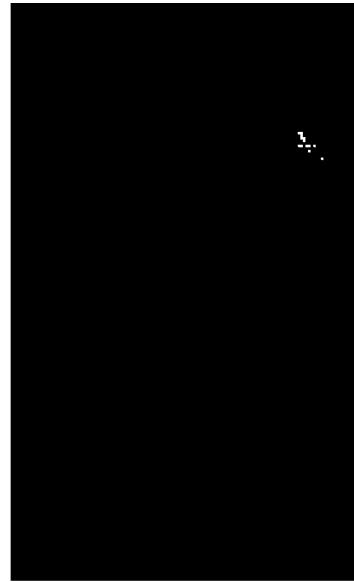
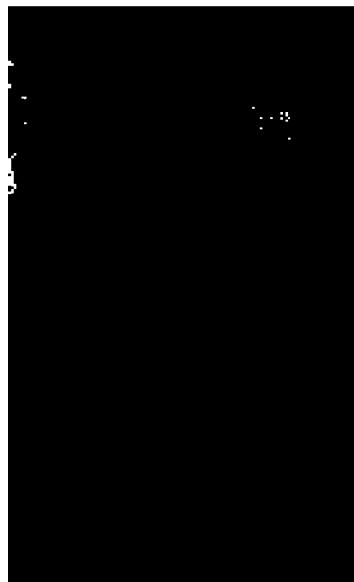
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3443-87

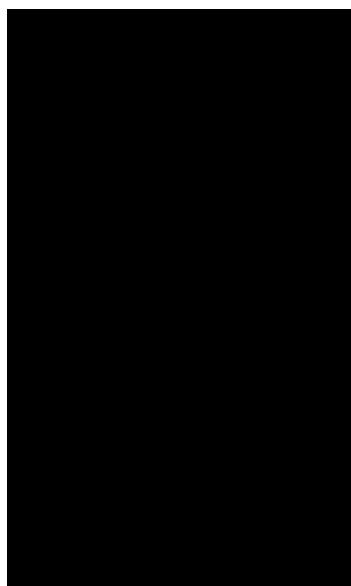


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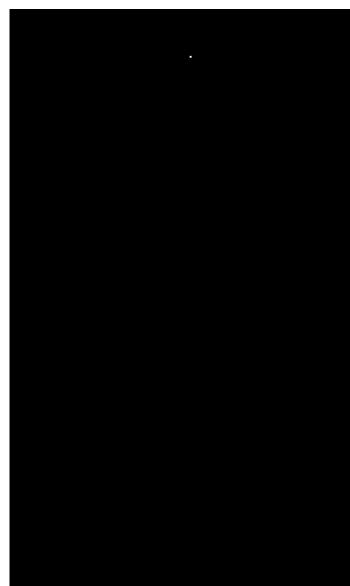
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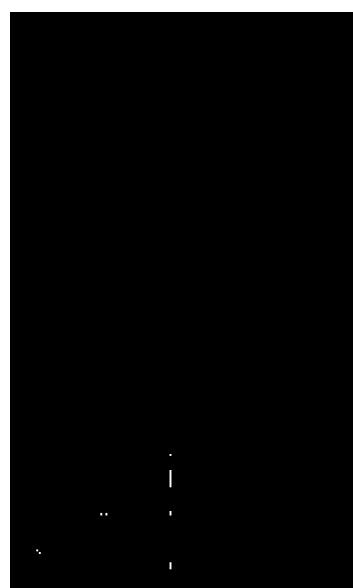
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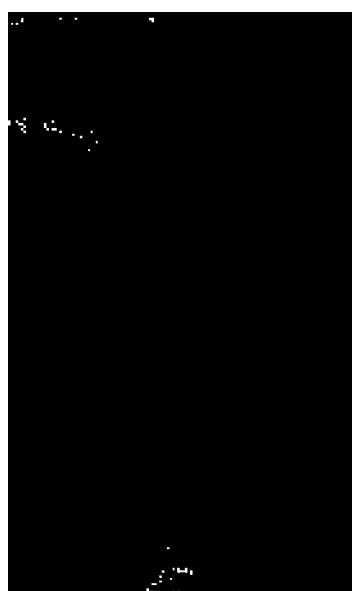
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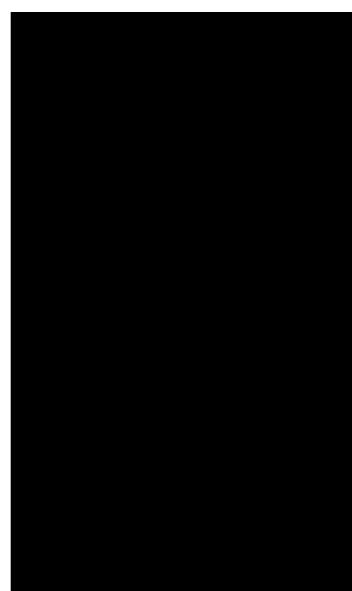
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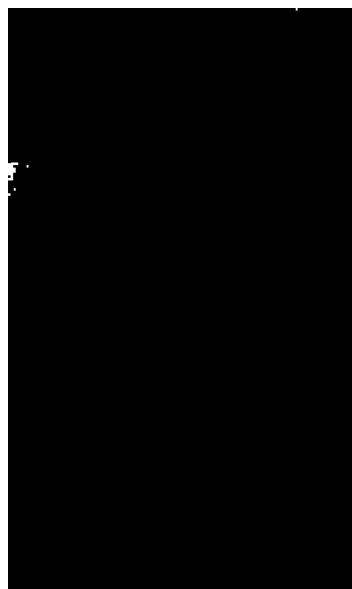
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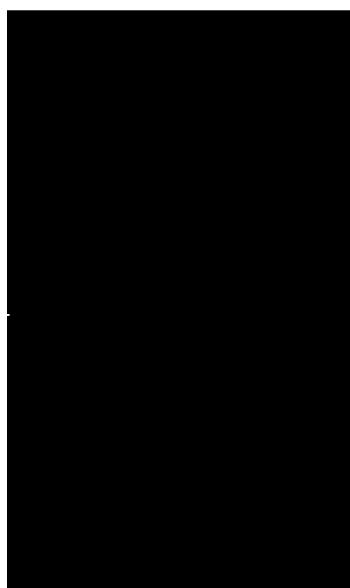


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Травление:
4 %-ным спиртовым
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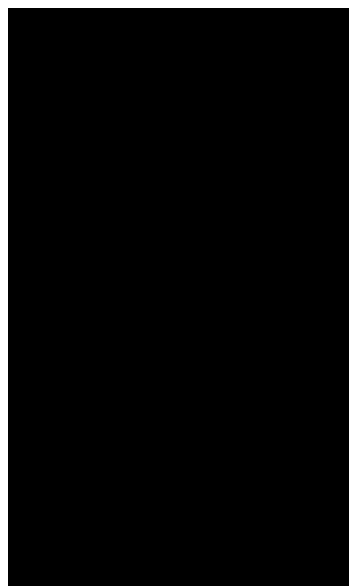
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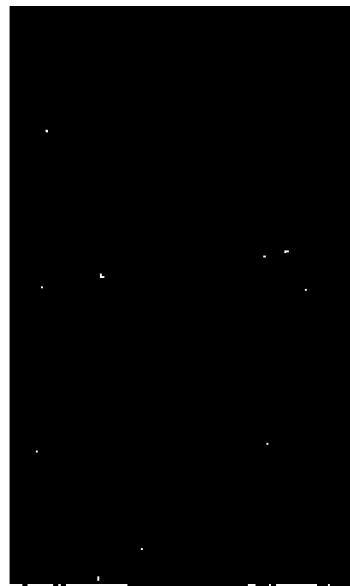


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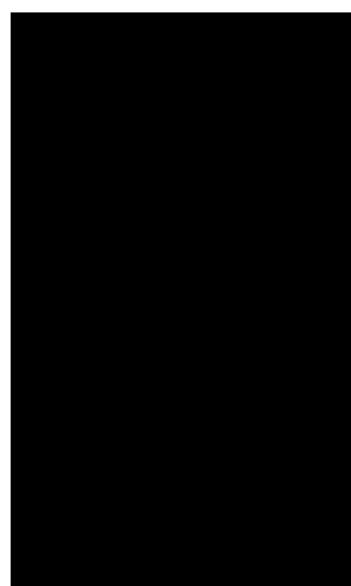
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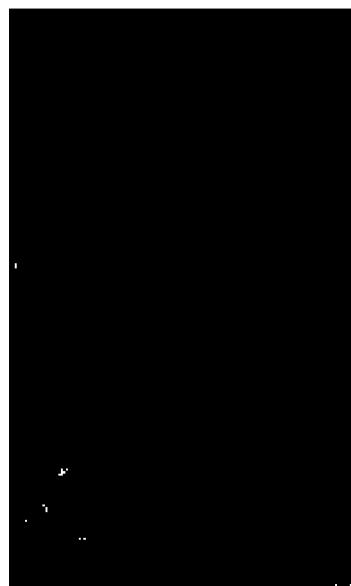


Ряд 1

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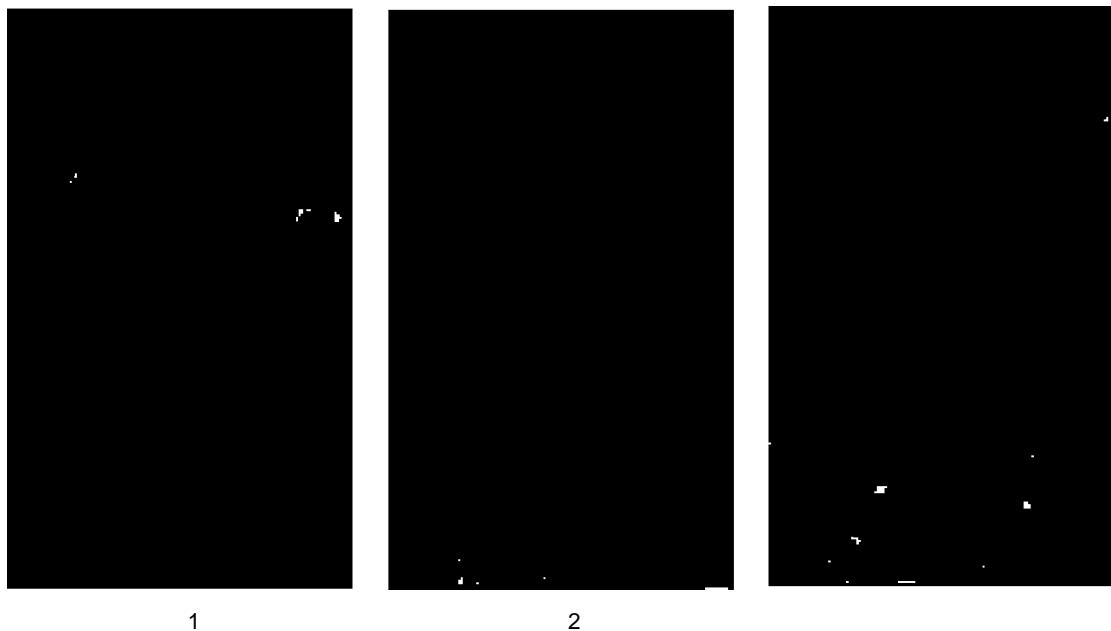


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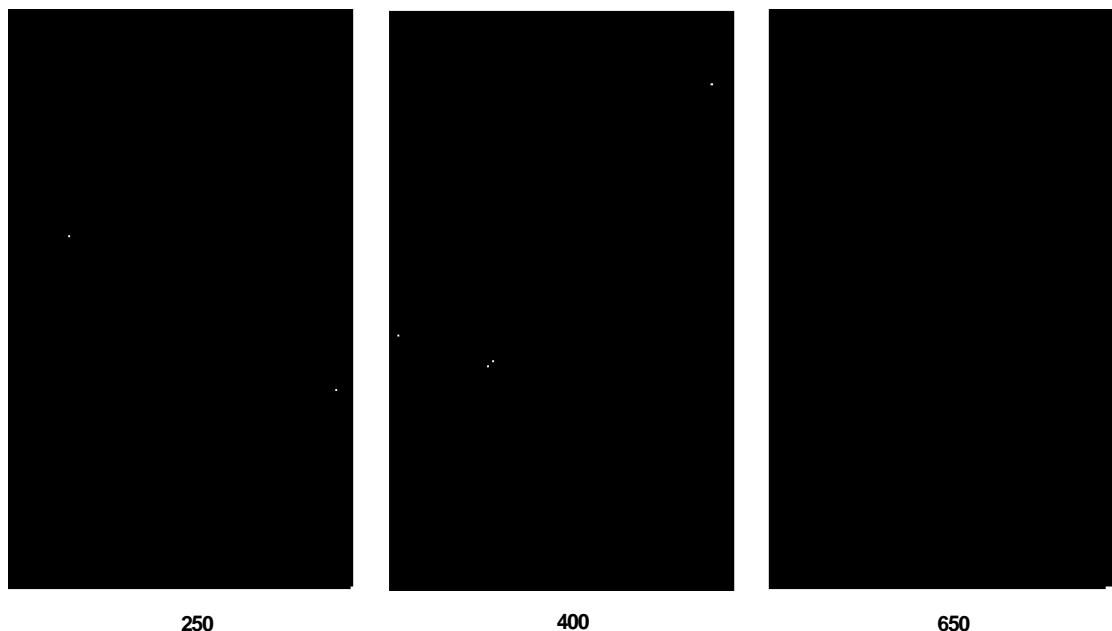


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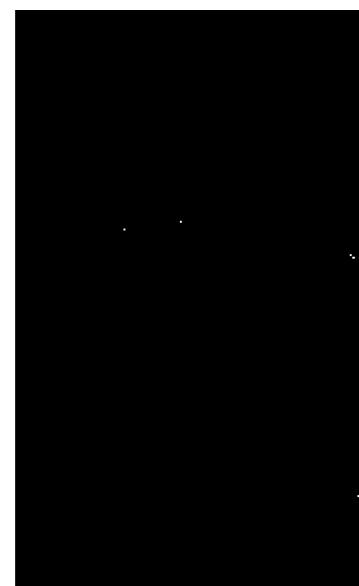
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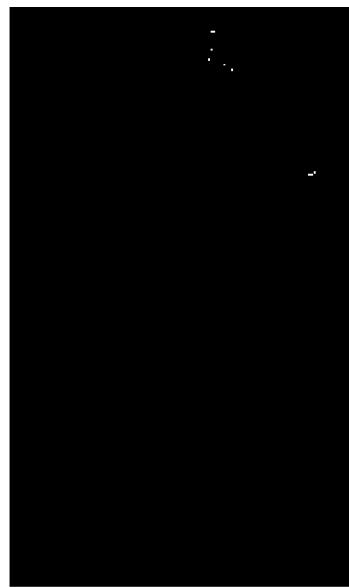


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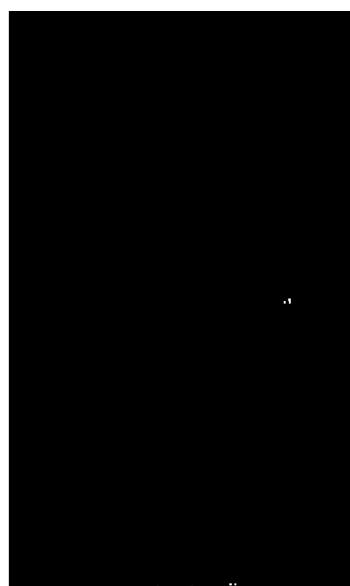
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3443-87

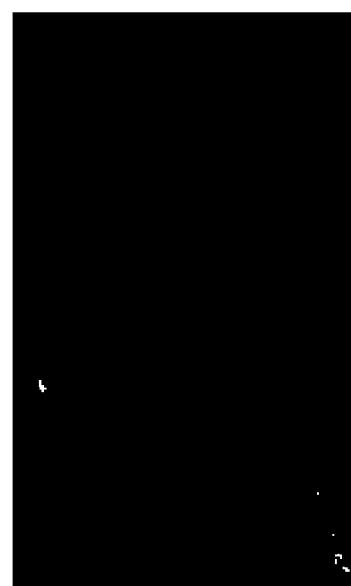


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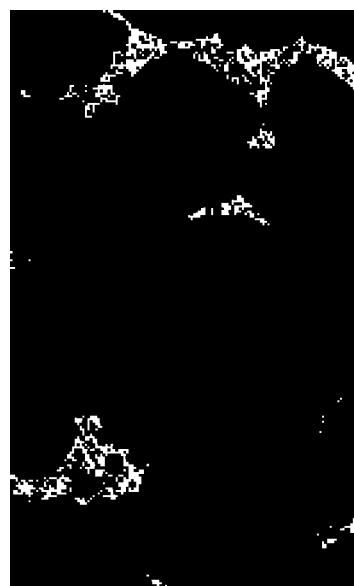
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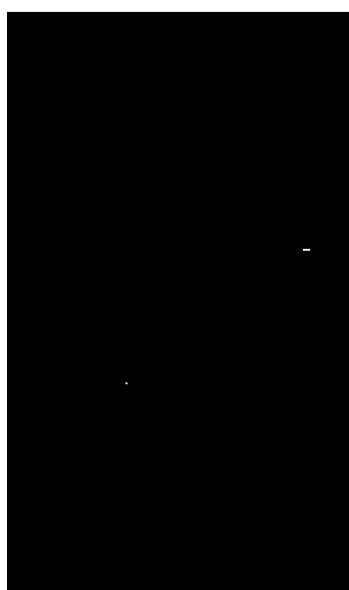
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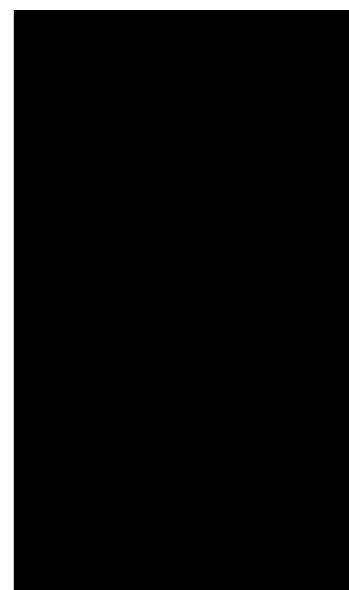
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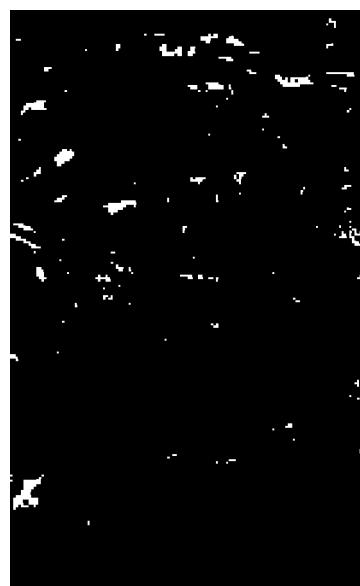
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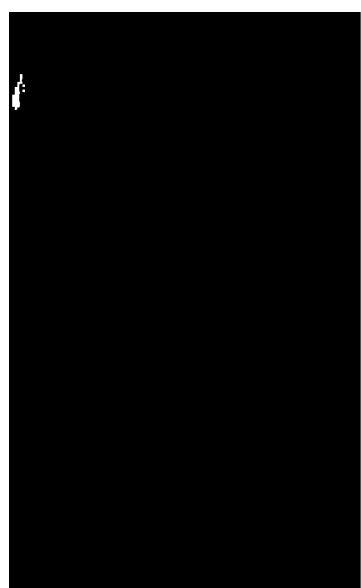


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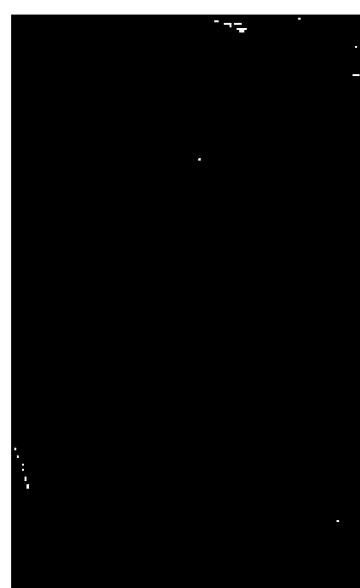


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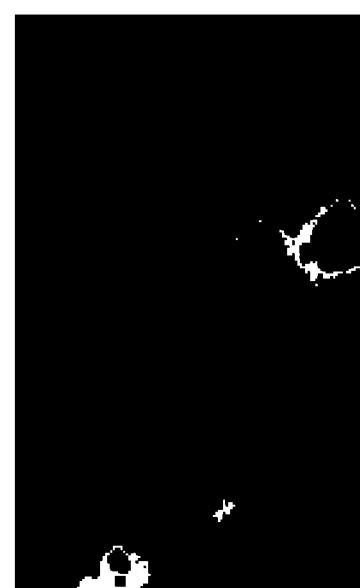
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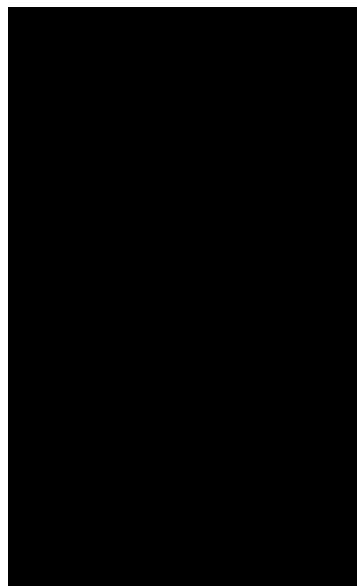
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