

10^9 (3.1) $(1,5 \cdot 2) \cdot 10^4$
 (), : () $1,5 \cdot 10^4$ 10^5 , () 10^5 10^7 , -
 10^7 10^9 .

$5 \cdot 10^{-2}$ | $5 \cdot 10^{-4}$. $3,4 \cdot 10^{-3}$ | $3,4 \cdot 10^{-5}$, $1,5 \cdot 10^{-2}$ | $1,5 \cdot 10^{-4}$

1000

f, . . .

$I < f^2$,

I

0,5
/ 2.

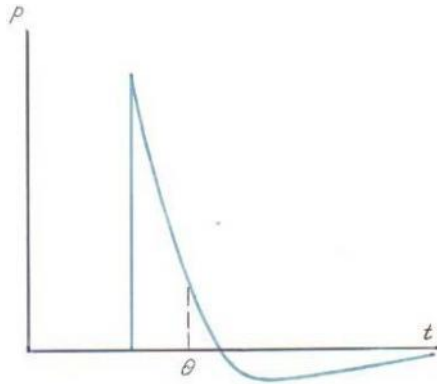
1 h

$10^{-14} | 10^{-15}$ 0,1 / 2

10^5

(H 10^{-6} c)
) ,
,

(10^8 H 10^3 / 2 -
(3.6). -
,
.



3.6 -

3.7

3.7

(.) .

2

1,

(0,1)

3,

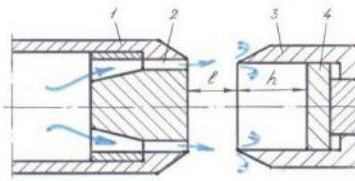
h

3,

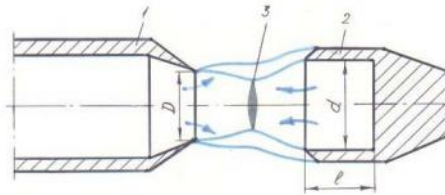
3.

1

l



a



b

3.7 -

- () ;
 - ()

1 2,

2, 1 3.

2, : $l = \ell$, $d = (1,3 - 1,5) \cdot D$

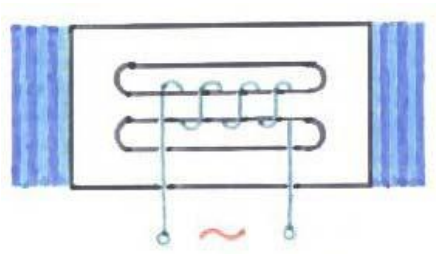
1 - 2 60 , 180

) : (, , -

().

50

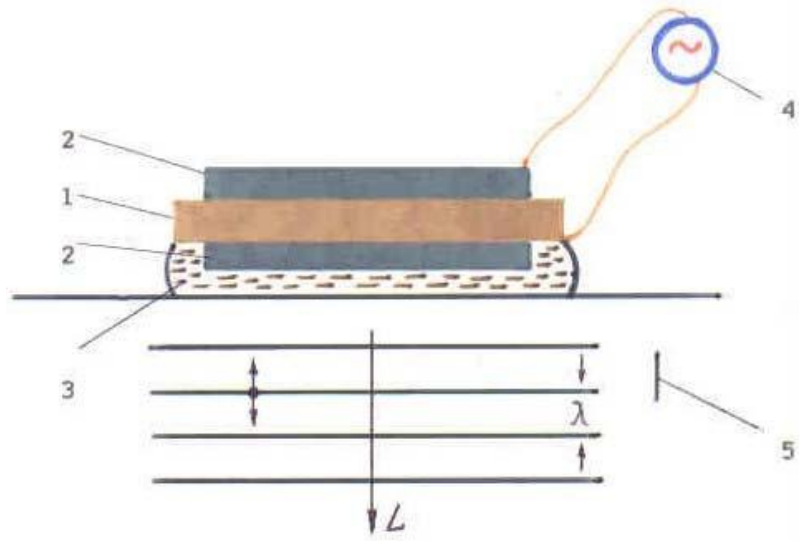
10^4



3.8 -

(3.8).

(3.9)



3.9 - () L , -

1 - $X \frac{L}{2}$, L -

;

2 - ;

3 - () -

;

4 - ;

5 -

()

...

(50 1

)

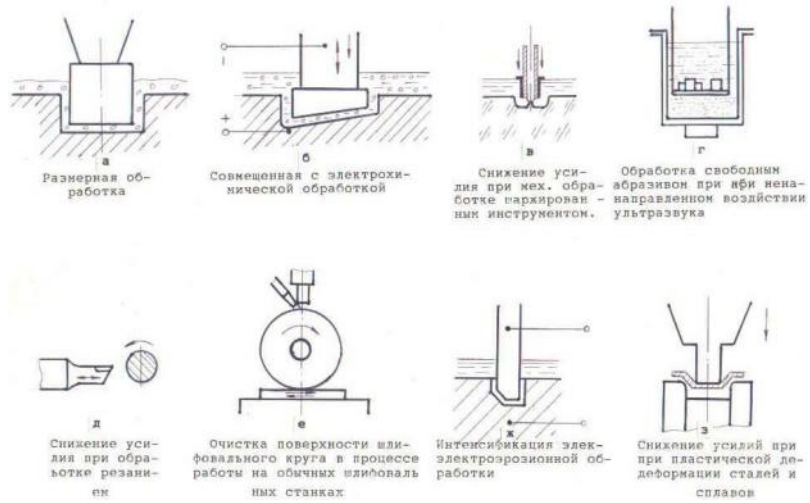
:

(5-10)

$$J = \frac{4fA}{1000} / ,$$

f -
-

3.10



3.10 -

(3.10),

()

(3.10)

:

()

(3.10),

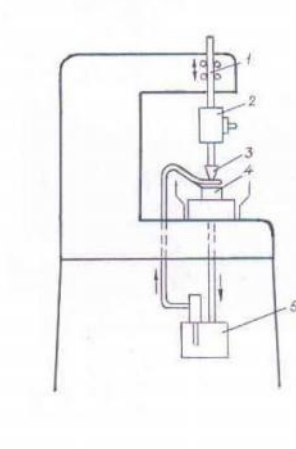
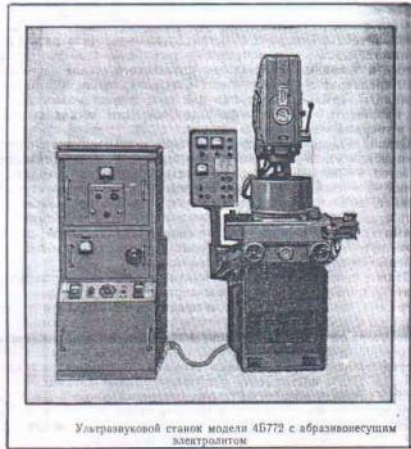
(3.10),

(3.10),

(3.10)

(3.10)

(3.10).



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

3.11 4 772 ;

1,5
22 . 1-80
. 40
. 0.01

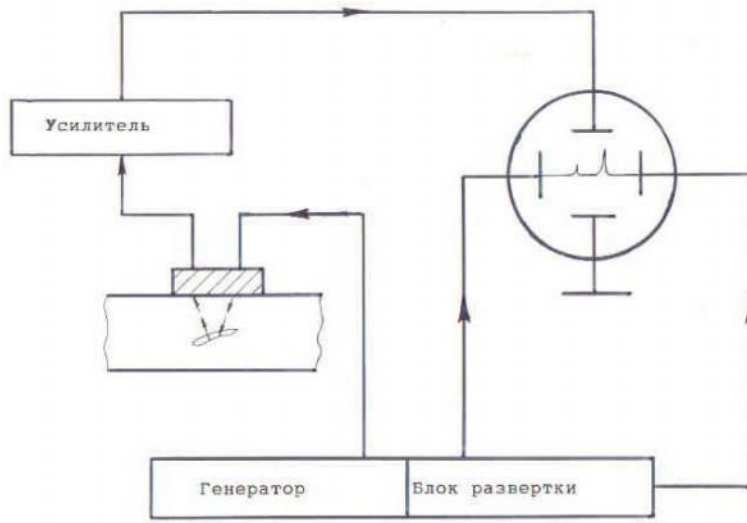
(10⁻⁶), 8-10)
1,5 - 2 %
5

()
()

3.13,

1 %

),



3.13 -

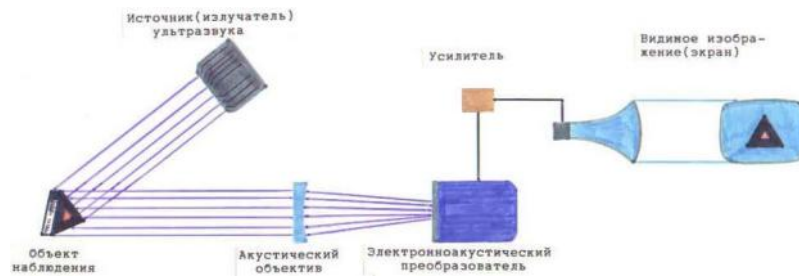
(-)

“ ”

(-)

10 100

3.14.



3.14 -

$$- 10^{-10} / 2$$

$$10^{-9}$$

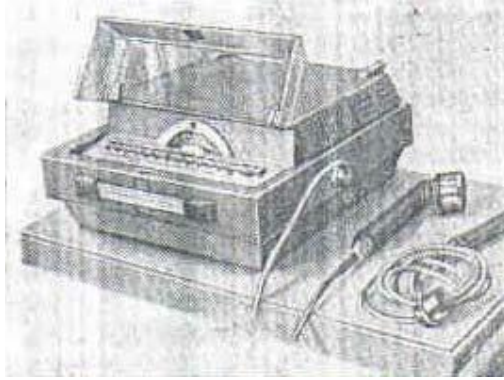
100-200 ².

500 3000).

0,1 1,0 / ²
3.15

“ ”

900 (



3.15 -

“ ”

4 1 2.

880

2 / .2.

8 ,

2

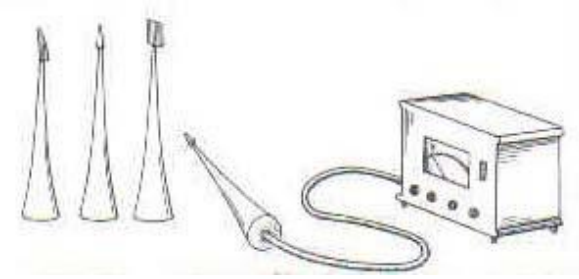
50

5 10 .

(),

()

10-



3.16 -

-8-

-

3.16

-8-

10^6

$- 10^7$.

20-75 ,

10-50 .

-

-

-

-

-



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б



в

3.17 -

— ; — ;
 - .
 (()), -
 () 1

(3.17).

(3.17), -

40

(3.17).

(3.17)

“

- -05-0”.

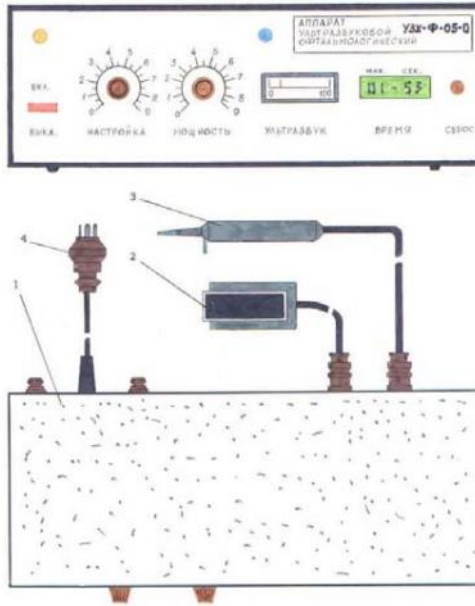
()

()

(

).

3.18



1 – 3.18 - ; 2 – ; 3 – - 0,5-0 ; 4 –

66±6,6

1 ; 2, 3 ; 4. 3 ; (), 0,9 1,1 (),

(). “ ” () 100 “STA R PHACO XL_{tm}”, (3).

59).



3.19 -
 “ STAAR PHACO XL”
 3.19

; 2 - ; 3 - () - (3.16)

3.16 -8-

5

() -

()

A

(a - mode, amplitude)

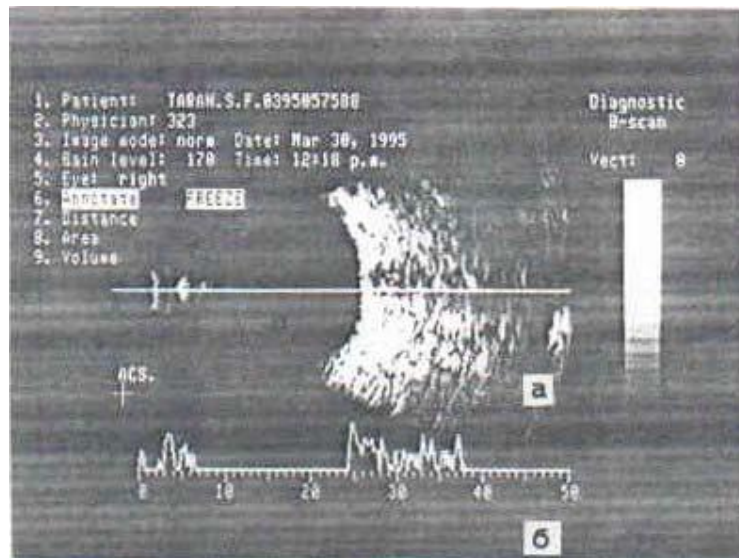
)

(3.20).

(- mode, motion-) -

(B-mode, brightness-) -

(3.20).



3.20 -

3.20

(real time),

2,25-3,5

5 10

:

(-

)

. .

TECNAR Image 2000(B-SCAN III Plus).

/

(3.20).

3.21.

()

10

50-75

50 -

20

1550

/ .



3.21 -

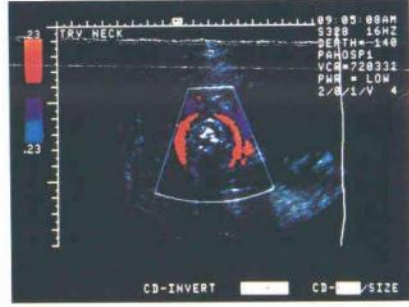
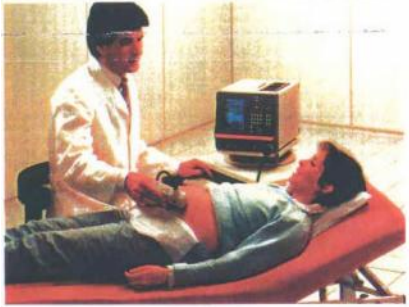
A-scan/B-scan III Plus

3.22

:

TEKNAR

3.22



3.22 -

- ; -

3.6

,
 .
 “ ” (-)
 “ ”

(3.23.).

(,

, . .).

.

-

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:

2,

- 30 18 ,

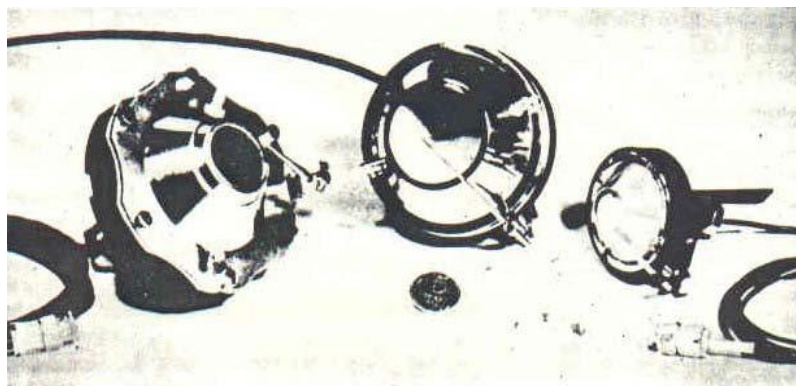
20 160 .



3.23

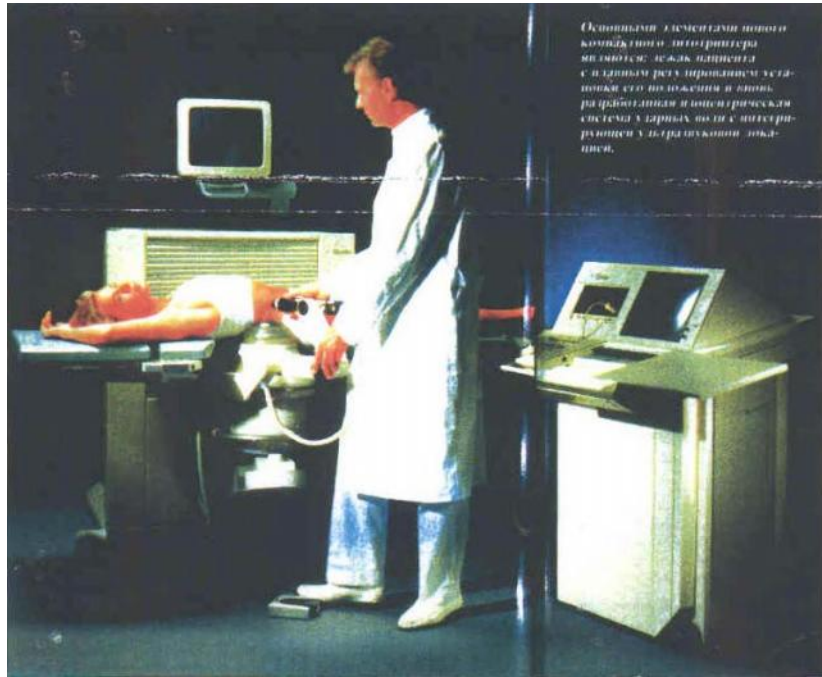
3.7

3.24



3.24 -

1000



Основными элементами нового
компьютерно-интегрированного
модуля являются: экран, клавиатура
с и другим ригидным устройством
его поворачивать и вращать,
рабочий стол и панель управления
системы с датчиками, а также интегри-
рованная ультразвуковая техника.

3.25 -

3.25