

ÖZET

% 2 1 ' (. 6 7 (1 < (5 3 (' ø 9 (3 2 / ø 6 \$ -

% X O X ú E R Q G H N V W H Q \ H U S H G L Y H

Y H I L U H O H U L Q P P L O H P P D U

5 P D N L Q D V Ø Q D E X Q O D U Ø Q E L U E L U L Q

????????

????????

????

????????

10 süngerin (1) kesile U H N ú H N L O O H Q G L U L O P H V L Q L

■

■

?

fiber keçeye (2) Y H E R Q G H N V V • Q J H U L Q W D N Ø

V D K L S R O P D V Ø L O H N D U D N W H U L] H H

1. % X O X ú E R Q G H N V W H Q \ H U S D H V G Q L N
 süngerlerin ve firelerin P P L O H F G F D D N U O D U S O -
 V D ÷ O D \ D Q N O U S P D P D N L Q D V O Q D
 5 E D ÷ O D \ O F O E L U \ D S O ú W O U O F O W H U

????????

????????

????????

????????

- 10 ?? E R Q G H N V ve üst
 ?? Y H E R Q G H N V V
 o O N D U O O P D V O Q O K V S ÷ R D P D Q O F O W M

2. ø V W H P ¶ G H E D K V H G L O H Q E R Q G H
 15 |] H O O L O ÷ H L E H ³ E D & O Q D R O D U D N L P O H

????

karakterize edilir.

3. ø V W H P ¶ G H E D K V H G L O H Q E R Q G H
 20 |] H O O L O ÷ G L H N V V • Q J H U L Q E D ú W

■

4. ø V W H P ¶ G H E D K V H G L O H Q E R Q G H
 |] H O O L ÷ L E R Q G H N V V • Q J H U L Q

- 25 |] H O O L N W H R O P D V O Q O I L E H U N H o H

5. ø V W H P ¶ G H E D K V H G L O H Q E R Q G H
 |] H O O L süngerin (1) en Fazla bir yüzeyine N V ne edilebilen ve üst yüzeye

W X W X Q P D V O Q O V D ÷ O D \ D Q I L E H U N H

30

6. ø V W H P ¶ G H E D K V H G L O H Q E R Q G H
 |] H O O L ÷ L E R Q G \ H N V G H Q • Q L J V H W H Q H Q

V D ÷ O D \ D Q W D H Q Q H Q N D O O Q O O N V D K Ú L S N L R O O P

karakterize edilir.

% 2 1 ' (. 6 7 (1 < (5 3 (' ø 9 (3 2 / ø 6 \$ -

Teknik Alan

5 % X O X ú E RYQHGH SNRVOWL H/ Q M \ HVU• Q S H G L • U H
 ?????????
 ?????????
 ??? L O H \ D S O ú W O U O F O Q O Q
 V D ÷ O D \ D Q P L N V H U H N D U O ú O P O Q N
 10 E R Q G H N V W H Q V • Q J H U H G | Q • ú P H V L Q L
 ??????
 ■
 ?? Y H • V W \ • J V H D \ H O D W X V e X Q P E H
 E R Q G H N V V • Q J H U L Q W D N a D p C o l o S V O o O N C
 15 karakterize edilir.

7 H N Q L D u r u % L O L Q H Q
 3 R O L H W H U S R O \ H V W H U Y H V R ÷ X N
 N X O O D Q O O D P D P D N W D Y H E X N R Q X
 20 \ D ú D Q P D N W D G O U E H % J X W D W • D U I D Y G L H N Q D
 ■■■■
 ?????????
 ■
 Mevcut tekniklerde at O N R O D U D N Q L W H O H Q G L U L O
 25 N D U O ú O P O Q L o L Q H N D W O O D U D N E H C
 ■■■■
 parçalar haline getirilmekte Y H E X ú H N L O G H N X O O D Q O
 Q L W H O H Q G L U L O H Q E X V • Q J H U O H U
 N X O O D Q O O D E L O P H N W H G L U

0???????

1 Bondeks, N O U S O Q W O S R O L • U H W D Q
V O U D V O Q G D \ • N V H N E D V O Q o L O H W
P D O J H P H N J P L O H N J
5 V D \ H G H I D U N O O D O D S üngerden çok daha sert X O O D

?????????

???

??

???

malzemedir.

10 < H U S H G L W H P L J O L N D L U Q D o N e s e d e r O O D Q E O D

??

???????

?

Bununla beraber son zamanlarda bondeks sünger

N X O O D Q O P O Q O Q D U W P • D P V N O • Q L O R H O P E D X N W P D

Polisaj sünger R W R P R E L O O H U G H E R \ D \ • J H

15 R N V L G D V \ R Q X D O P D N L o L Q N X O O D Q

?????????

veya

N H o H G H Q L P D O H G L O P X O O D H O O H O O Q L N S O

E D ÷ O O R O D U D N I D U N O O V H U W O L N O H

V H U W O L N O H U G H • U H W L O P H N W H Y H V

20 süngerlerinin bondeks süngerden üretimi bul X ú D N y e n t e m X a y e s i n d e O D n

?

) D U N O O ú H N L O O H U G H • U H W L O H @ E R Q

Y H G D ÷ O O P D J H O P H N W H R O X S |]

G H ÷ L ú L N O L ÷ L Q L Q V O N O D ú P D V O Q D Q H

25 N O U O O P D S U R E O H P L G H F L G G L E L U

???

için b X O X ú D N R Q X R O D Q E R Q G H N V V • Q J

L V W H Q P L ú W L U

?

% X E X O X ú X Q D P D o O D U O Q D Ye Polibajú P D N
V • Q J H U L • U H W L P L H N O L ú H N L O O H U G I
ù H N % L X O X ú X Q E L U X \ J X O D P D V O Q O Q • V

5 ù H N % L X O X ú X Q E L U X \ J X O D P D V O Q O Q \ D

?

?

ù H N % L X O O E X L ú U X Q E D ú N D X \ J X O D P D V O Q O Q \

ù H N % L X O X ú X Q F O U W E D Q W O O E L U X \ J

ù H N % L X O X ú X Q o R N O X E L U X \ J X O D P D V O

10

?

ù H N L O O H U G H Q N X L P D S U D D U O o D D Q O G D O U U O W O P N ú W R C
D ú D ÷ O G D Y H U L O P L ú W L U

1. Bondeks Sünger

15 2. Fiber Keçe

3. & O U W % D Q W

% X O X ú X Q \$ o O N O D P D V O

7 H N Q L ÷ L Q E L O L Q H Q G X U X P X Q G D E D

20 o H ú L W O H U L Y H W I D L O O H O H U V L Q L Q P N X O O I D

?

■

■

\$ \ Q O E R \ X W D P J L H W H U I H O E H D Q O O D W O O F D O N V E |

W H U F L K H Q W X W N D O \ D U O P O R E B M H O

25 E D V N O S U H V L Q H D N W D U O O O U Y H S U

??

3

E D ú O Q D ' L O N H L O G H V ' O N

bondeks süngerden (1) blok haline getirilir.

Blok haline getirilen bondeks sünger (1) L V H L V W H Q H Q • U • Q

V • Q J H U N H V L P P D N L Q D O D U O Q D D O O

bondeks süngerin (1) • J H U L Q H P • ú W H H ü r l e y e Q i k L y ü Q e y i n e , V W H ÷
400 g/ m² ile 2000 g/ m² ara O O f i b e O k e q e (2) D a m i n e e d i l e b i l m e k t e d i r . T a l e b e

E D ÷ O O R O (D) U N D D N O O I Q E O G N H ÷ N U H L o N f r o l L o N V L \ Q D G S I
L ú O H P G H N Q V V R Q S D H V M H N X O U D V Y W H O O H O D D U

5 boyuta sahip E R Q G H N V V • Q h a l e g e t ü l i r . N X O O D Q O

?? süngerden (1) üretilen sünger ve pedlerin, daire E D ú W D
R O P D N • J H U H K H U H J N H R O H H V Q G L N U L O P N M
E H U D E H U L V W H Q H Q N D O O Q O O N Y H E
R O P D % N X W D V G D A U G H I D U N O O D O D Q O D U G D

10 Bondeks süngerden (1) üretilen yer pedi Y H S R O L V D M V • Q J H U

???????

??

?

% X O n X ú l a d b o n d e k s R s ü n g e r d e n (1) ü r e t i l e n p o l i s a j s ü n g e r i n i n N X O O D Q
D O D Q O D o t u m d i v e k t ö r ü g e l m e k t e v e s a d e c e b o n d e k s s ü n g e r (1) o l a r a k

15 V O N O ú W O U O v e / P Y H \ b a m t (3) O l a r a k t u t u l a r a k U p a s t a D e / S O L N D

veya cila V • Q J H U L R O D U D N N X O O D Q O O P D N W

% X O X ú X Q E L U X \ J X O D P D V O Q G D O O E S R Q
o O N D U O O P D V O Q O V D ÷ O D \ D Q F O U W E
E R Q G H N V V • Q J H U L Q • V W \ • J H \ L

20 E X O X Q D E L O P H N W H G L U % X Q X Q O D E H

?????????

■

% X O X ú X Q E L U E D ú N D X \ J X O D P D V O Q G
E D Q G D E H Q J H U ú H N L O G H W X W X

25 V D \ H G H E R Q G H N V V • Q J H U L Q L V W H Q H

■

% X O X ú X Q E L U E D ú N D X \ J X O O D P H U \ O Q G
E D Q W L O H N X O O D Q O P O P • P N • Q O

% X O X ú X Q E L U X \ J X O D P D V O Q G D E L U
\ D Q D \ D G D G D L U H V H O R O D U D N E L U

30

?????????

????????

????????

ilebilir.

5 % X O X ú D N R Q X R O D Q E R Q G H N V V • Q J
V H E H E L L O H S L \ D V D G D N L P X D G L O O H

■

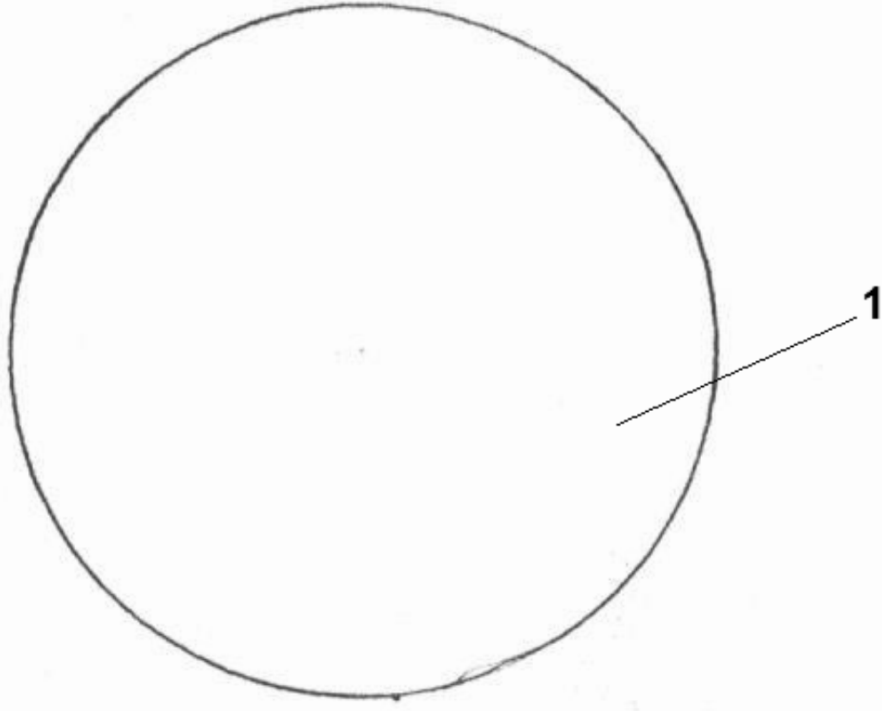
% X O X ú X Q X \ J X O D P D O D U O \ X N D U O G D
mümkündür.

10

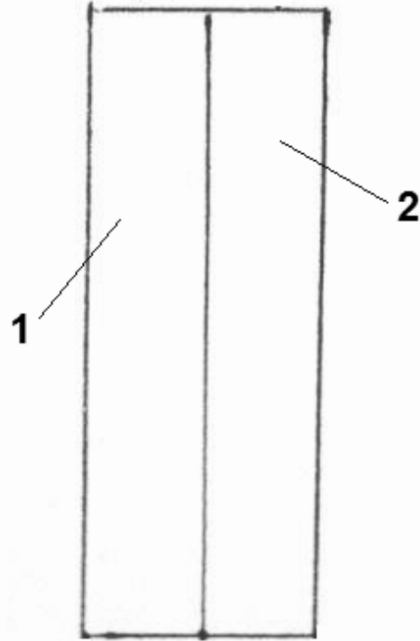
15

20

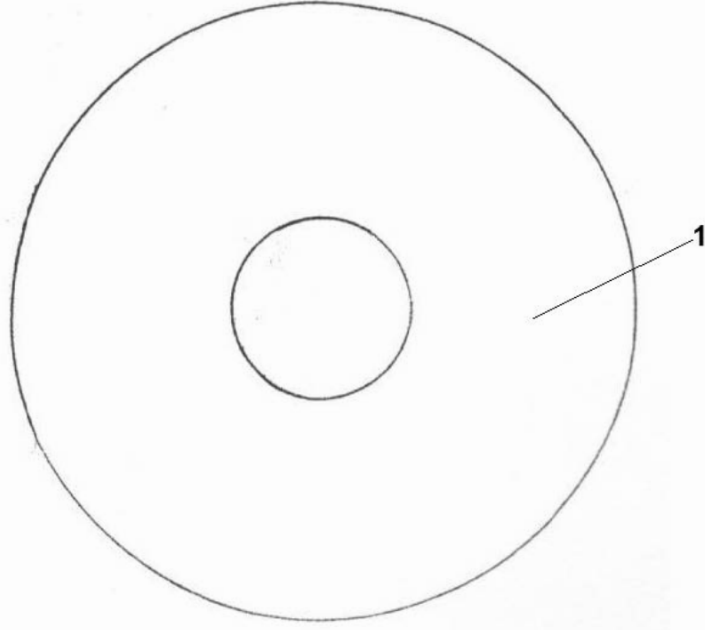
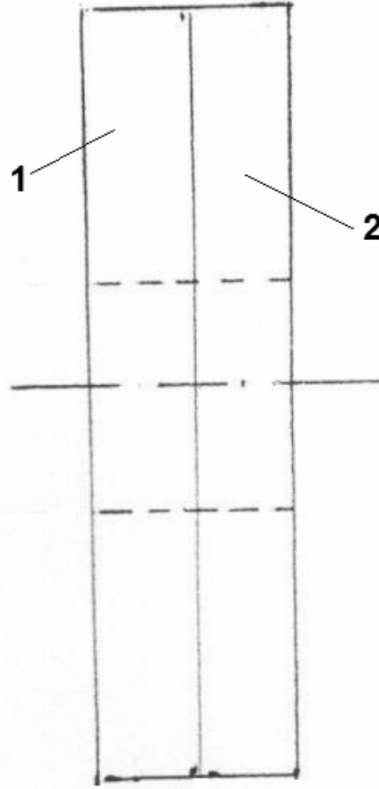
25

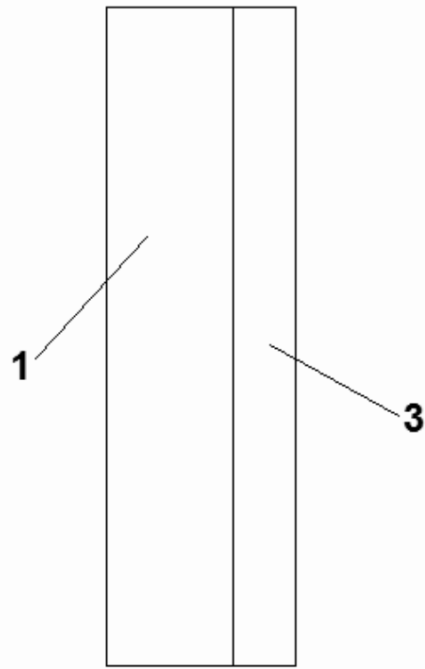


Şekil 1

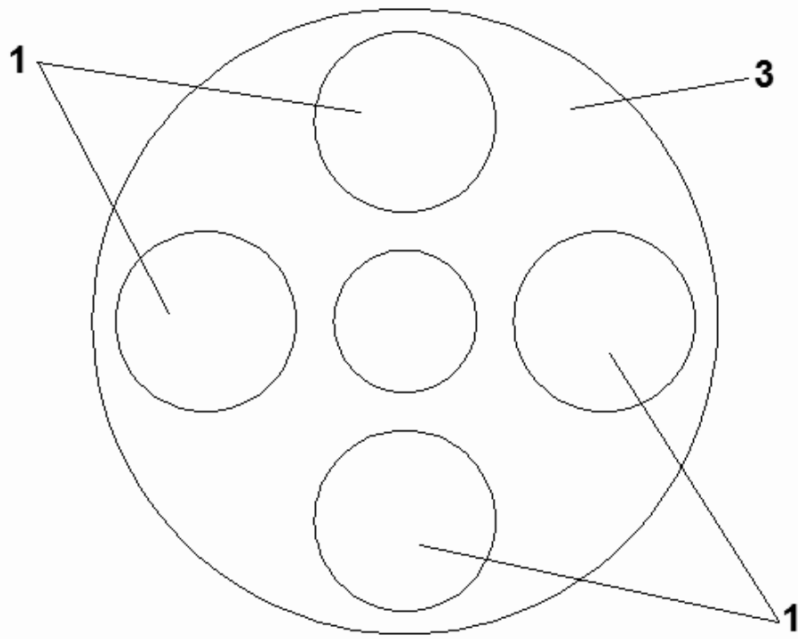


Şekil 2

**Şekil 3****Şekil 4**



Şekil 5



Şekil 6