

# (Rigid rapier)

1.

(rod)

가

(二相)

가.

( 1)

가

가( )

( )

( ).

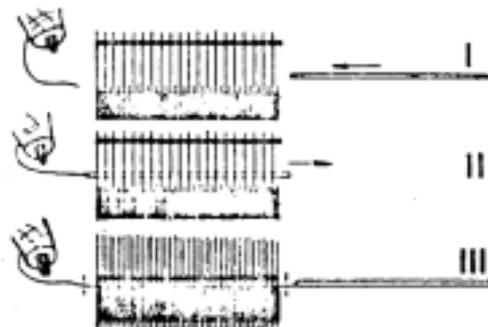
Ancet

Fayolle가

MATESA

Fatex

가



< 1> Ancet-Fayolle

1

Ancet Fayolle가

가 .

1)

가

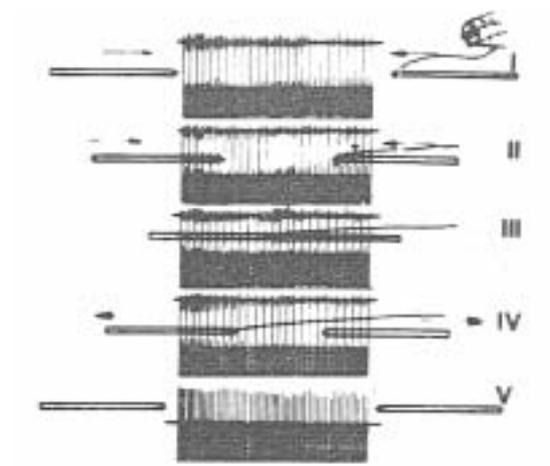
가

Gabler

Dewas가

(Dewas가 )

( 2).



< 2 >

2

( - )

가

가

(reversing

gear)

가

(sprocket)

가

가 가

가)

가

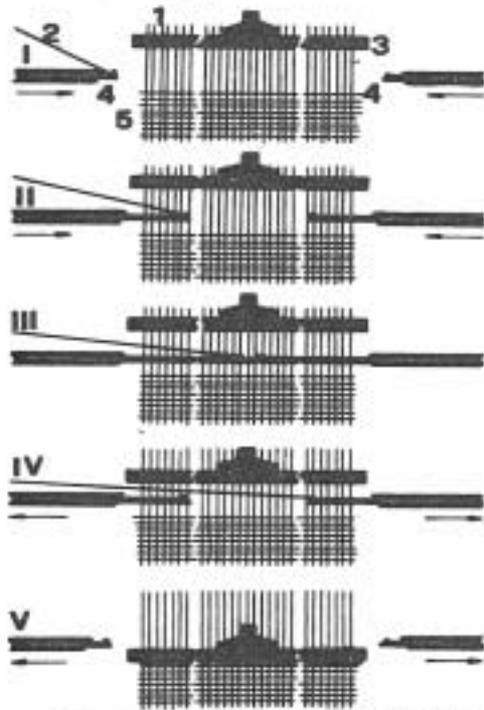
1/2

)

가

( 3).

가



< 3 >

( - )

1.

2.

3.

4.

5.

2)

(3)가

(1)

(4)

(2, 5)가

(3, 4)

(5)

(3)

(2)

(4)

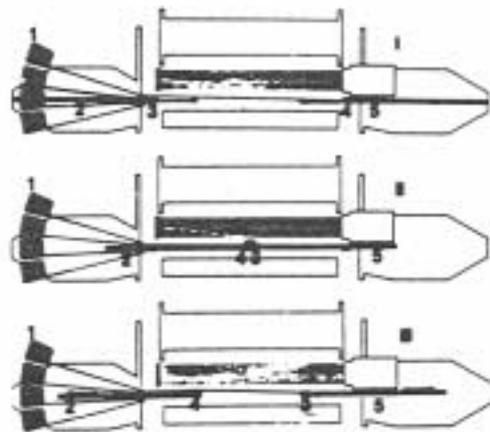
Fatex

ITMA'79

가

(

4).



< 4 >

(Fatex)

Investa

“Acutiss”

1

가

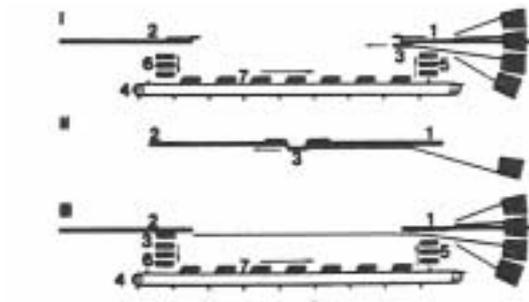
( 5). 220cm

56

가

가

가



< 5>

(Investa)

(3)가

(1)

(1)

(2)

(3)

(3)

(6)

(4)

(5)

가

가

1)

2

AG A. Saurer

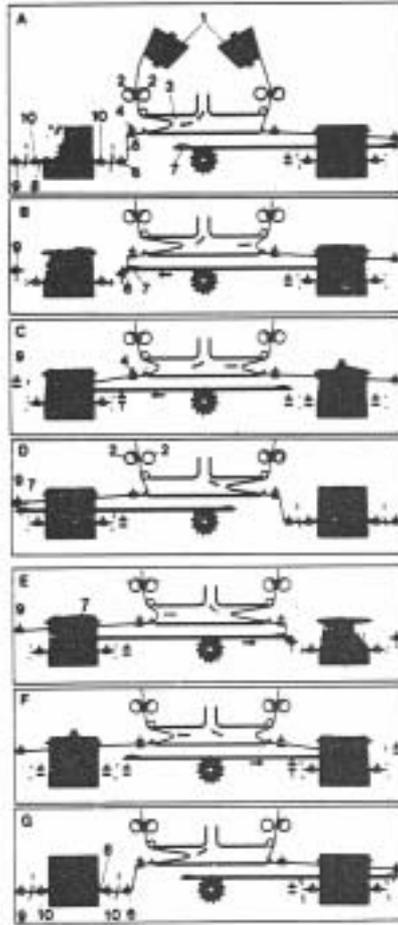
“Saurer500”

가

가

가

( 6).



< 6> “Saurer500”

(A-G)

- |    |     |
|----|-----|
| 1. | 2.  |
| 3. | 4.  |
| 5. | 6.  |
| 7. | 8.  |
| 9. | 10. |

2)

2

가

Orbit Weaving Machinery 가 Gentilini Ripamonti

18

가

18

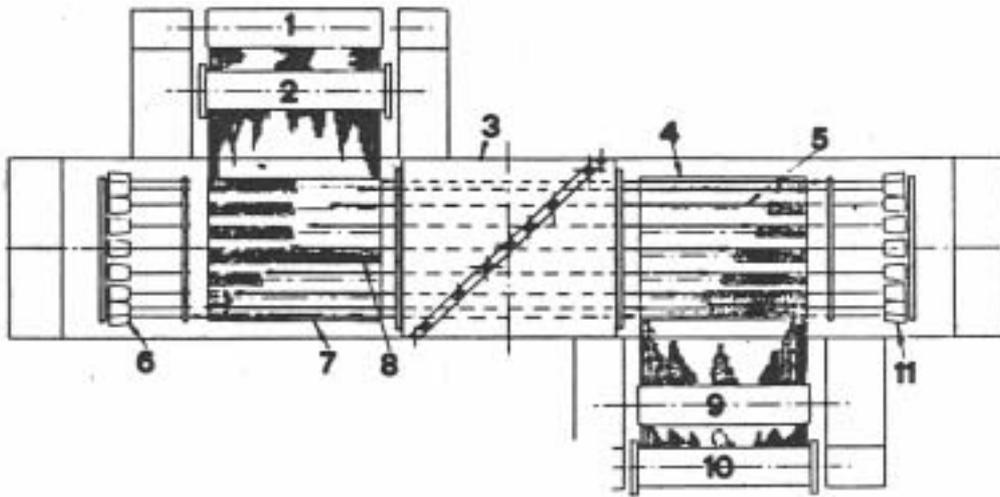
가

가

( 7 ).

2

. X



< 7 >

가

( Orbit Weaving Machinery )

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

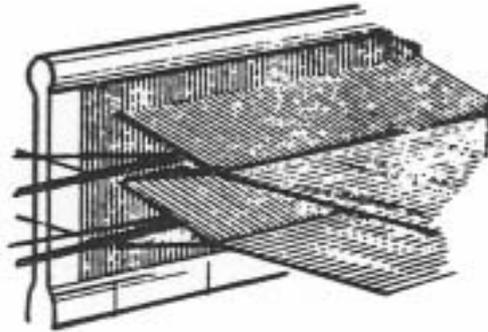
가

2

가

, 2

( 8).



< 8>

2

Gunne, Gusken, Mertens & Frowein, SACM Textile, M, van de Wiele

. Maguinaria textile del Norte de Espana

2

가

2

.

van de Wiele

가

가

, 2

( 9). 1979

Lindauer Dornier-Gesellschaft GmbH

,

가

.

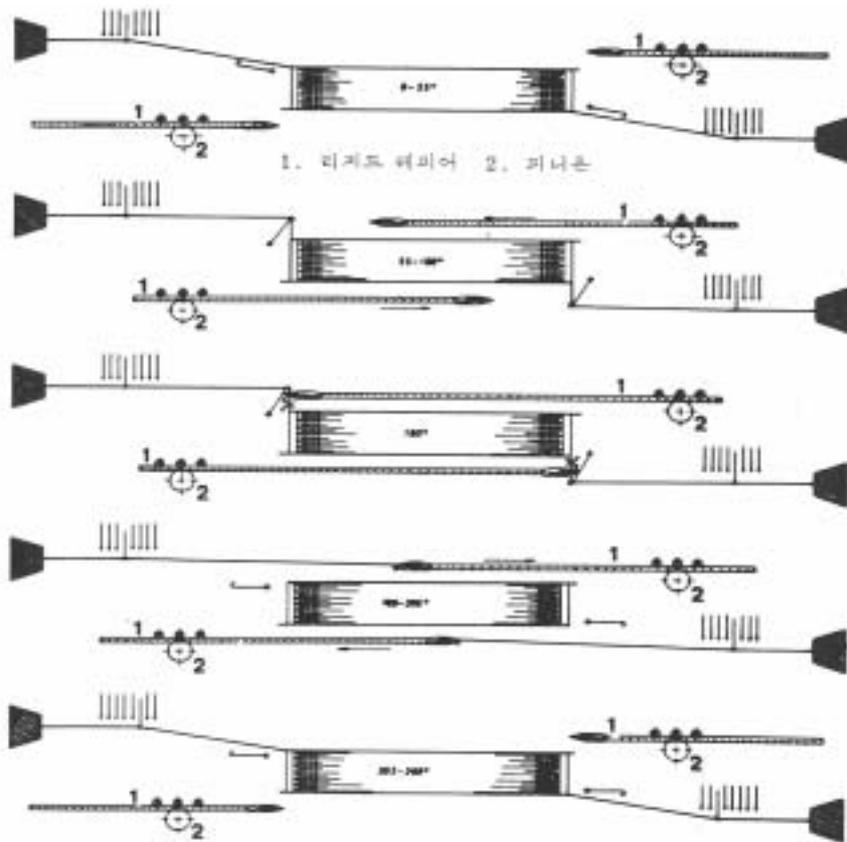
2

가

가

Gunne

SACM



< 9 >

(van de Wiele)

1) (ripple shed)

J. Mackie & Sons Ltd.

(hollow rapier)

가

가

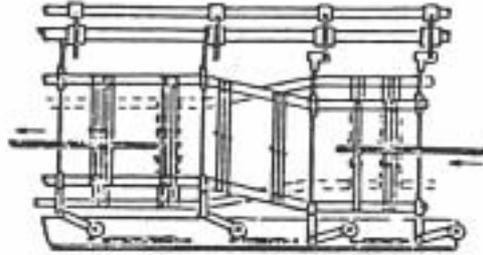
“Onemak”

“Twomak”

2

가

( 10).



< 10>

2) (strip wise)

“Metap”

Investa AG fur Aussenhandel, CSSR

가 10 15mm

(latch needle)

2

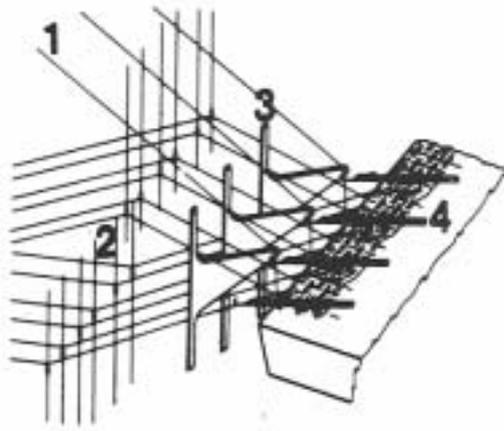
(hollow needle)

( 11).

2 가

가

( ).



< 11> Metap - (Investa)

- 1. 2.
- 3. 4.

가 가

(ajour fabric)

가 가

2.

가 가 .

가 .

2 , 2

가 .

가.

가

가

가

SACM Textile

MAV

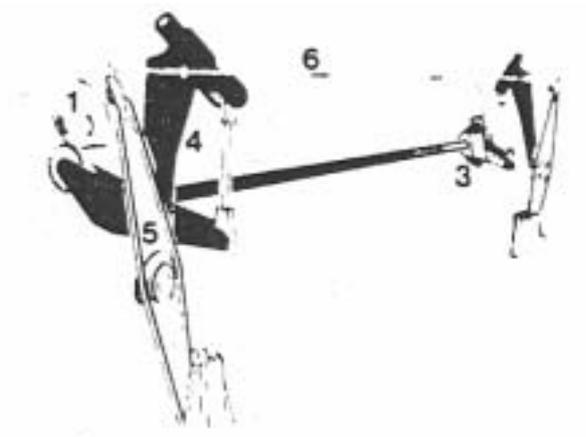
( 12).

Investa

“Acutiss”

M, van de Wiele N. V.

JV



< 12> 2

(SACM Textile)

1.

2. 1

3. 1

4.

5.

6.

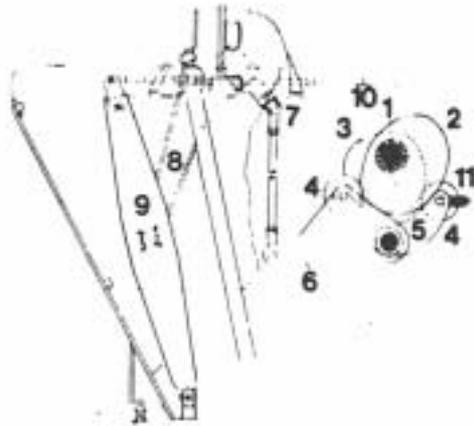
Gunne

Webmasschinen fabrik GmbH & Co. KG

(tie rod)

(counter lever)

( 13).

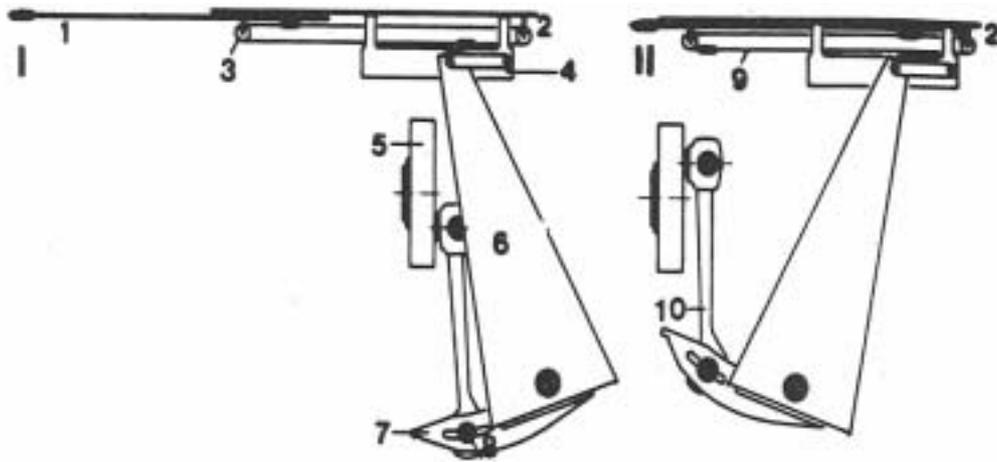


< 13 >

(Gunne)

- |    |                 |    |
|----|-----------------|----|
| 1. |                 | 2. |
| 3. | (counter-cam)   | 4. |
| 5. | (counter-lever) | 6. |
| 7. |                 | 8. |

90°



< 14 >

(Saurer)

- |    |     |
|----|-----|
| 2  |     |
| .  | 가   |
| 1. | 2.  |
| 3. | 4.  |
| 5. | 6.  |
| 7. | 8.  |
| 9. | 10. |

가  
 Saurer-Diederichs S.A.  
 “Saurer400”

가  
 AG A. Saurer  
 ( 14).

가

가

가

가

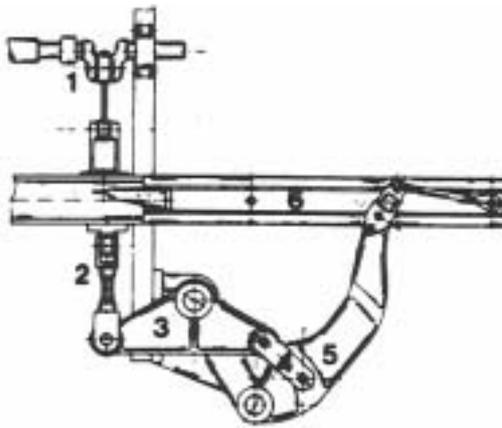
Galileo Meccanotex S.P.A.

Nuovo Galileo TMV

가 가  
 (Pushrod)

( 15).

가



< 15 >

(Galileo Meccanotex)

- 1.
- 3.
- 5.

- 2.
- 4.

6. 가

가 (reversing gear)

Lindauer Dornier Gesellschaft mbH

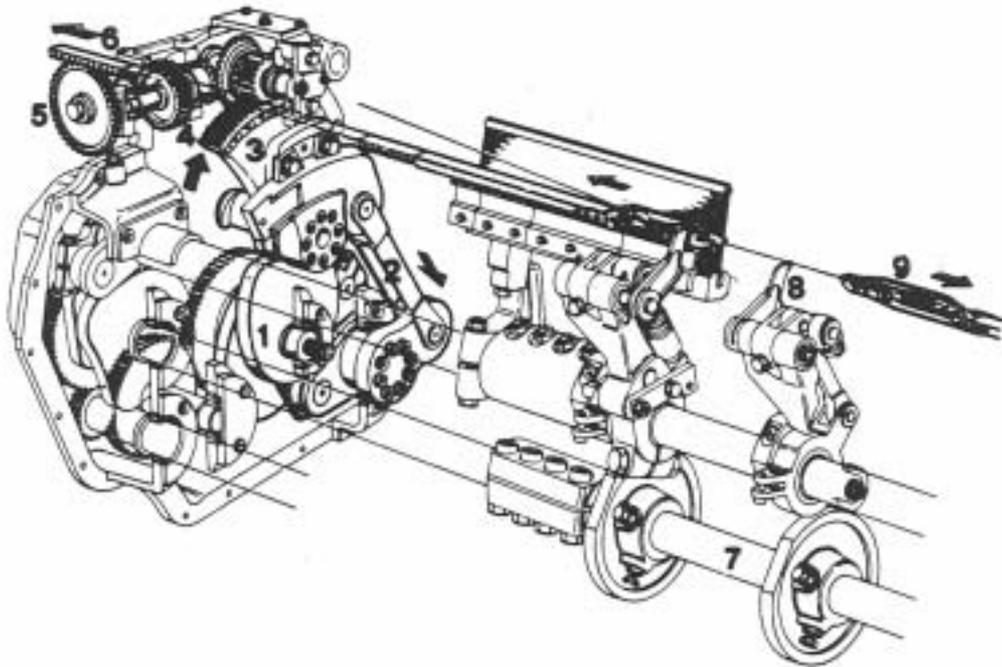
가

2

가 ( 16).

Lindauer Dornier Gesellschaft mbH

van de Wiele



< 16> , , ,

1. 2.

3. 가 4.

5.

6.

7. 8.

Jumberca S.A.

가

GmbH

British Northrop

W. Terhaerst

가

(擺線)(Cycloid)

J. Gisken GmbH & Co. KG

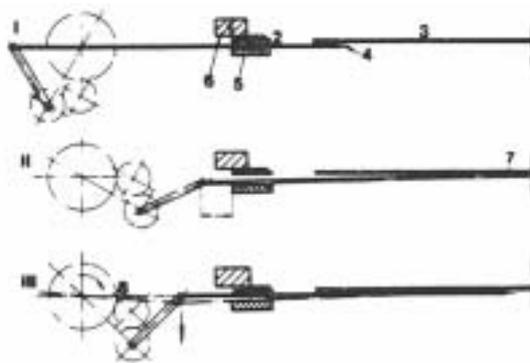
가

( 17).

가

가

( 18).



< 17> ( )

(Gusken)

1.

2. 가

3.

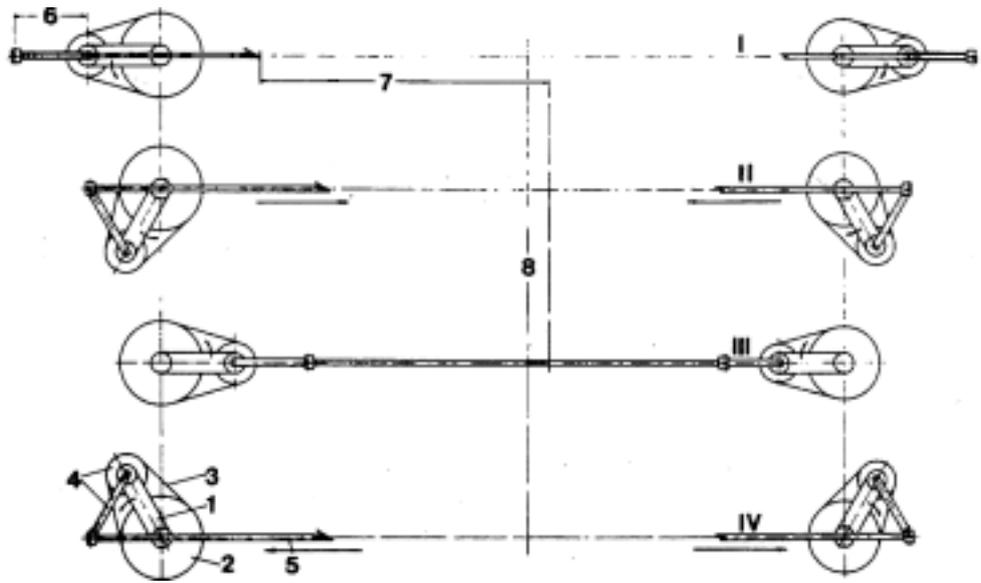
4.

(2mm)

5.

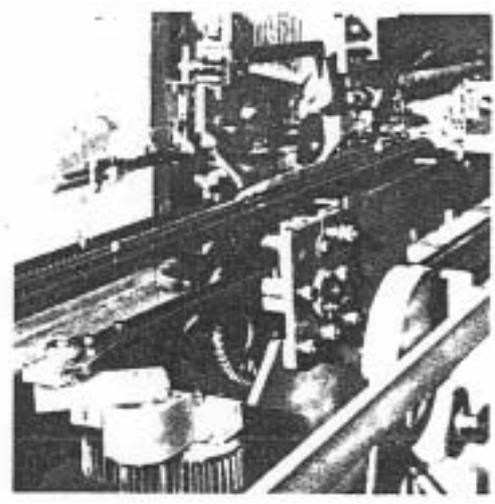
가

6.



< 18> ( )

- . 가
- . 가                    가
- . 가
- . 가
- 1.                                    2.                    (sun wheel)
- 3.                                    4.
- 5.                                    6.                    =4 x
- 7.



< 19>

(van de wiele)

Galileo, Gusken Mertens & Frowein

가

van de wiele “Carpetmatic”

( 19).