

Manchester SHIRLEY

(heald Eye)

가

Spilt Shedding(Centre shed

)

Tappet

가

가

.(0in. 0.3in.).

Split Shedding

(dwell period) ,

가

SHIRLEY

1in.

0.1in.~0.2in .

Spilt Shedding

(dwell period)

,

(lift)

(crossing)

2

1 (mill A)

○ : , $50\frac{1}{2}$ in. ; 108×112 ,

12.8 Tex(46's)

11.8 Tex(50's)

○ : Northrop H.S ; 60in ; 2 Tappets ; doll-head roller < 1> ;
; 169 picks/min.

doll-head rollers

가 (1 in.)

(Stave) 2 3

1 4

2

Tappet

(Device)

. < 1>

doll-head roller

1 4

,

2

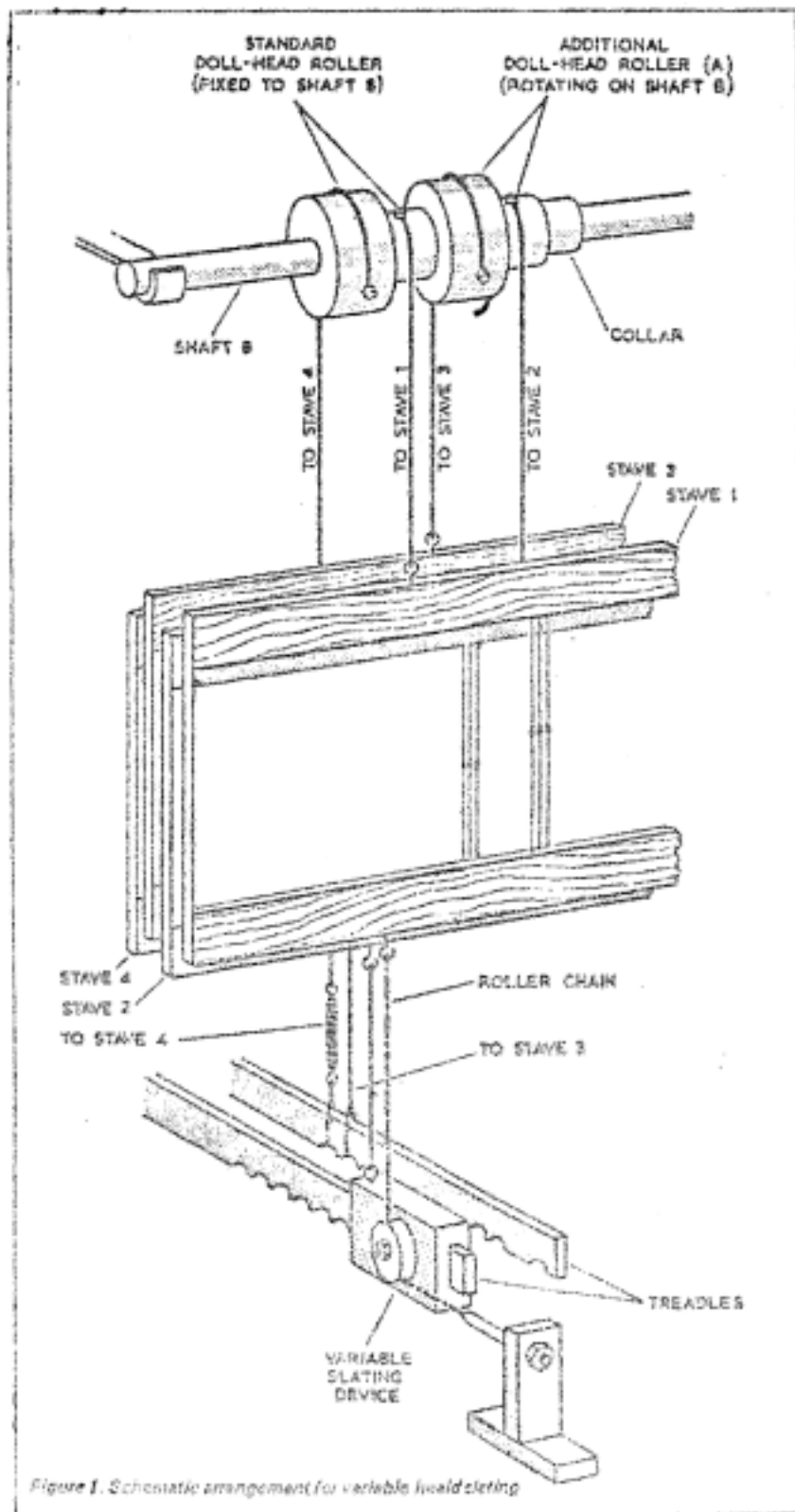
3

doll-head roller(A)

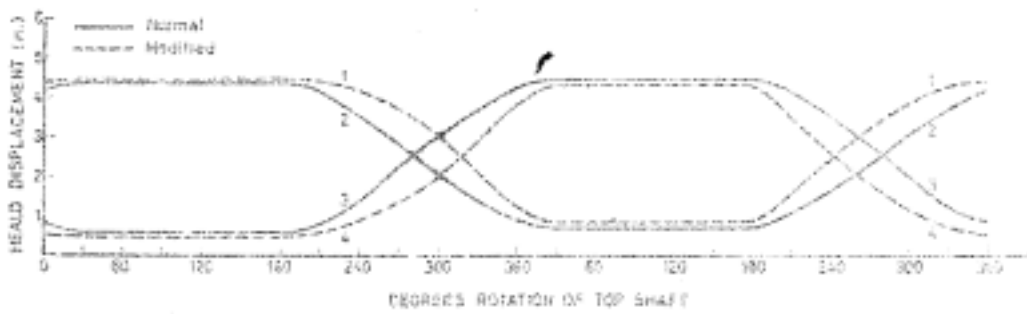
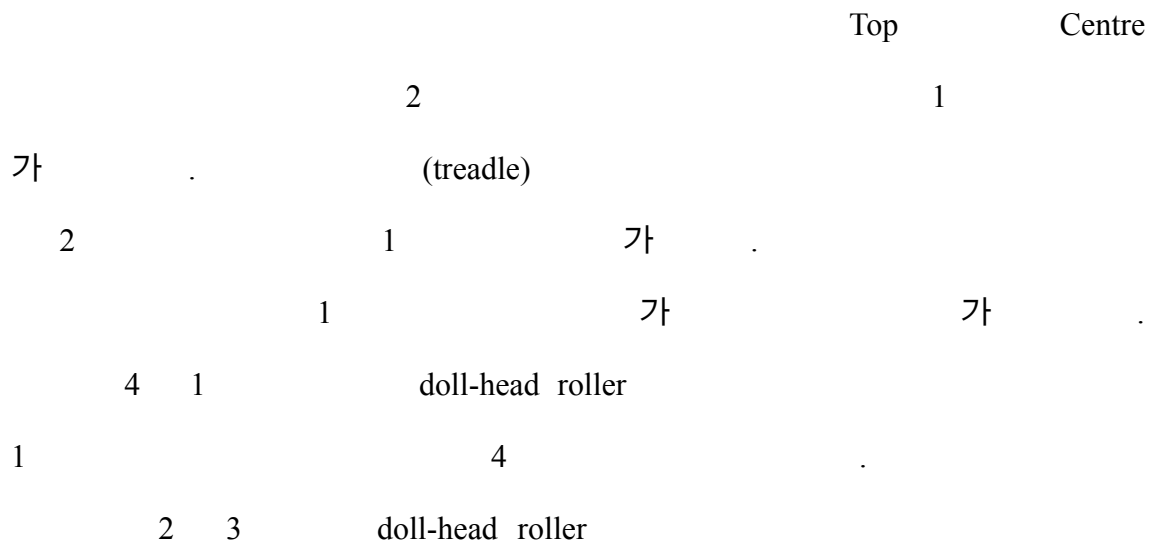
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(B)

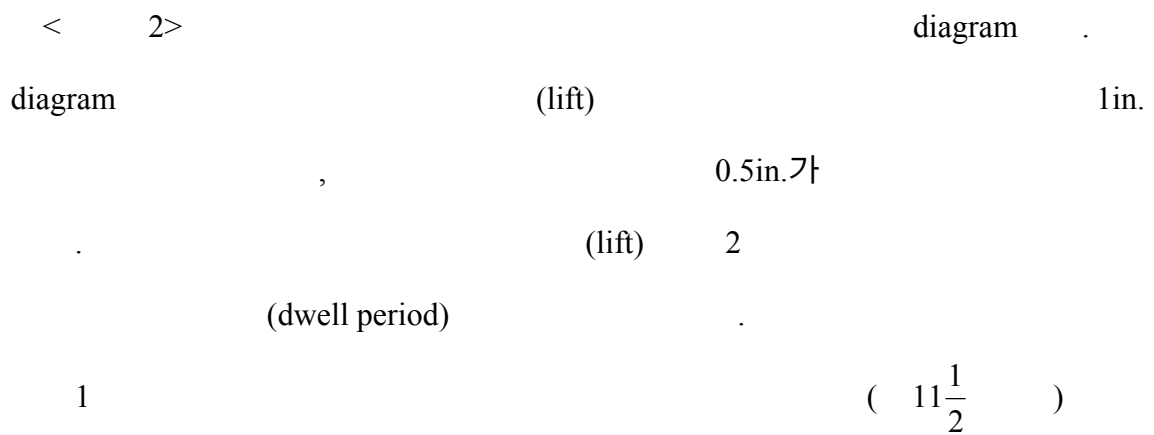
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< 1> Schmatic arrangement for variable heald slating



< 2> Heald displacement diagram obtained from healdslating



10,000picks 0.72

, 0.15in.

Beam()

10,000picks 1.82 .

2 tinted-thrum method .

600yards

○ : 2.73 breaks/10,000picks

○ : 1.19breaks/10,000picks

1 .

(fluff) .

가 (cover)

가

2 (mill B)

○ : ; 44in. ; 124 × 66 ; ; 16.4 tex(36's)

○ : Northrop, Model “S” ; Barker Split - Shedding : 4 ; 59/4
reed ; 170 picks/min.

3 . Barker Split
Shedding

Spring-top reversing motion 2

(Device) 1 3 0.2in.

1in.

가 Tappet

lamb rod

< 1>

< 1>

< 1>

Warp No.	Mean warp breaks per 10,000 picks *		Per cent reduction of warp breaks obtained with variable slating	Length of cloth woven per condition (yd.)
	Normal weaving	Variable slating		
1	0.42	0.19	54.8	360
2	0.38	0.29	23.7	720
3	0.80	0.49	38.8	720
Mean	0.53	0.32	39.1	

*Values refer to the total number of broken ends.

Barker 가 Split shedding system

Data가

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가

가

가

Tappet

. British Northrop

가

가

“S”

Split Shedding Tappet

Tappet

Tappet

Shirley

(Manchester)