

10

가

10

1. 製絲

1. CSIRO Lo-flo Scouring System

(grease)

IWS

(ILKLEY)

가. 90~98%

(grease)가 80%

가

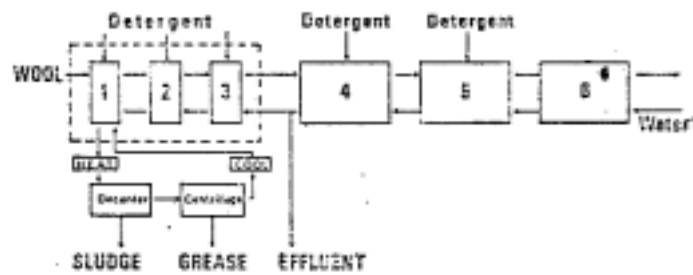
가

(bowl) Lo-Fflo (bowl) 3

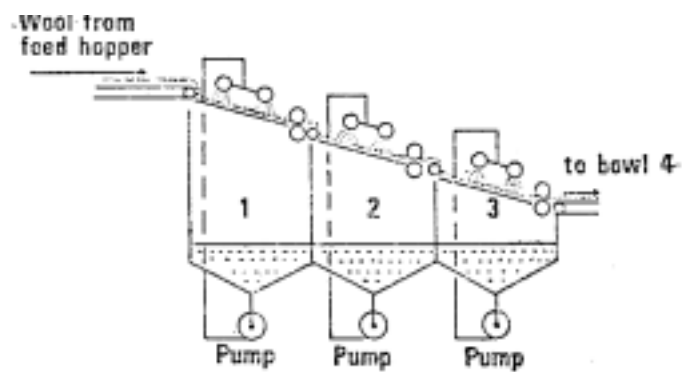
6 가 .

3 Lo-flo

4 .



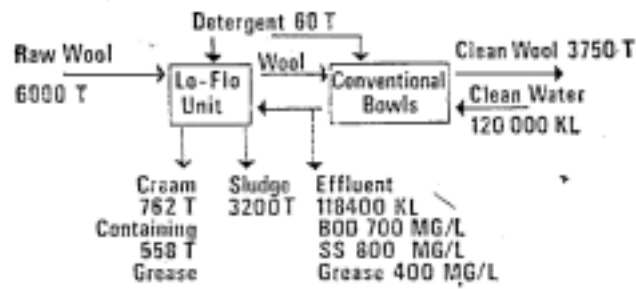
< 1> The CSIRO Lo-flo process as applied to covert a four-bowl scouring machine to a six-bowl machine



< 2> Digram of the CSISO Lo-flo three-bowl unit.

6,000ton

Lo-flo



< 3> Operating figures for a machine scouring 6,000 ton/year of a typical Australian wool.

Lo-flo

Lo-flo

6,000ton(		3,750ton +	2,250ton)	
:	120,000kl +	60ton		
2,000ton	120,000kl			\$160,000
:	310 ton			\$160,000
·	: ton	\$ 20		\$40,000
·	160ton	115,400kl		\$24,000
· 1,840ton	4,600kl		: ton \$8	\$51,520
·	: 310ton			\$115,520
Lo-flo Scouring				
·	: ton	\$5		\$11,250
·	160ton	118,400kl		\$24,000
· 1,590ton	1,600kl	Lo-flo		
ton	\$8			\$25,520
:	560ton			\$60,770

2. (Sliver Carbonizing)

20~30%

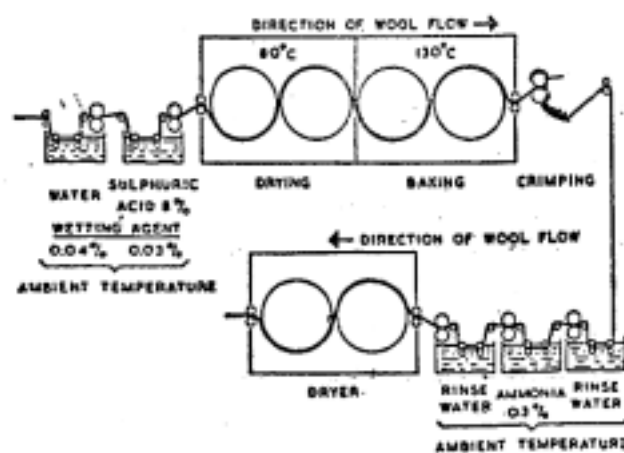
(C.S.I.R.O.)

가.

(recombing)

(loose wool)

(acid)



< 4> The Sliver Carbonizing process

3. (self-twist spinning)

1970 2

(Geelong)

(C.S.I.R.O)

1971

가

130

2가

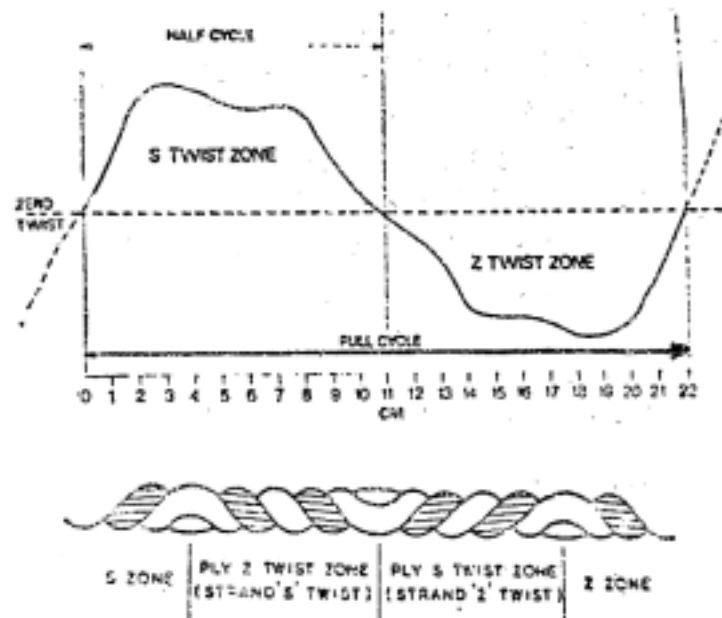
(roving)

11cm

가

22cm

0



가.

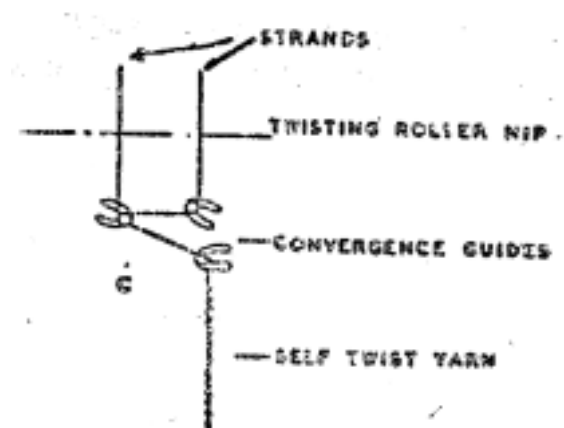
220cm/min

. 1

120

가

가



4. (Selfil System)

1975 7

CSIRO

, (絲萊熱)

가. 多毛混防絲 (80%).

. 가 300m/min

. 2 撚絲

. 가 .

. 가 가 .

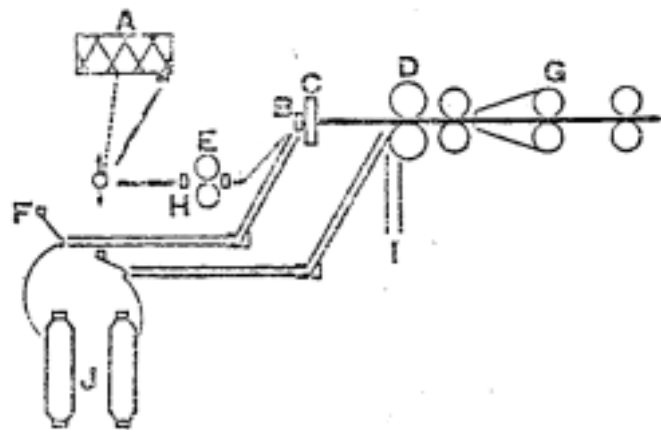
a)

b) (fly)

d) 整布 60% .

e)

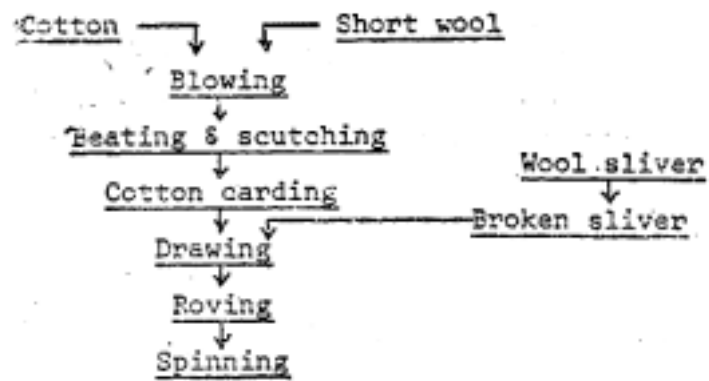
f)



5. (open-end spinning)

가 .

6. (cotton system spinning)



7.

(fancy yarn)

가

가

가

가

가.

: 2/40Nm (S400 TPM/Z2570 TPM)

가

가

(,

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가

8. 無掘絲(twist – less yarns)

가. (bulky) .

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. 가 .

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1.

가.

가 . 가 , .

가 .

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. (tape) 「 」

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2. (double jersey inlay)

(inlay attachment)

가 가 가

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가. .

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3. (Sliver Knitted Culy Wool Pile Fabric)

가. () – (back coating) –
가 (shrink proofing) – (combing) – 剪毛(shearing) – (wet
tumbling) – (dry tumbling)

1. (sponging)

가
가
가
(strain)
(fuller handling).
가. (crease setter)
가

8 160 가 .

가 가

.
(Lintrak)

. 8 250~500
가 .

.
1.

80
. Nonylphenol type (: LissapoN, ICI) acid
milling, 2 : 1 metal complex 가 , Albegal B (Ciba-Geigy)

가 .

2. (cold pad batch dyeing)

.
(padding) .
↓
(reaction)
↓
(washing off)

가. 가 .
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가 .

3. (low chrome effluent dyeing)

pH 가 .
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가 .
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4. (panel printing)

(cold pad batch dyeing)
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가 .
.
(chlorination) 가 .

. 가 .

5. (transfer printing)

가 .

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가. .

. 가 .

. (wash off) .

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1. 가

/ (가)

chlorination – neutralization – rinsing – resin treatment – softener application –
dyeing

(wool top) (loose wool), ,

(batch process) 가 .

DC 109 Process

dip drain, dip hydroextracting

spraying .

.

SIROLAN BAP Process

가 . bisulphite

polyurethane (Synthappret BAP, Bayer) soft polyurethane dispersion

(Impranil DLN DLH, Bayer) .

(pad-dry)

. 가 .

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. .

. (毛羽), (fuzzing), (bubbling), (cockling)

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. (snagging) (pilling)

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2. 가

(zirconium) (titanium) .

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가. .

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世適用 .

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3. 가

Eulan WA, New/U33, Mittin FF, Mittin LA

가 Dieldrin .

가 .

: Perigen

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1. 新

· **(berber yarn)**

().

(karakal wool) 白

.

· **(felt yarn)**

(tumble)

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· **(flame yarn)**

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· (nep fancy yarn)

· (bulky yarn)

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2. **(beddings)**

· **(Wool filled quits)**

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▪ **(bed pads)**

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