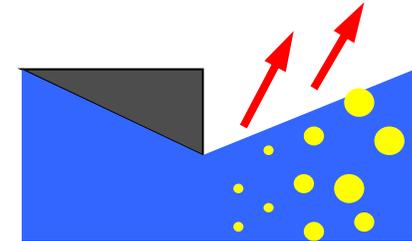


5.



[1] USIT3 Ed Sickafus) 1999 3 10-12

[2] (2) TRIZ
1999 7 2

[3] TRIZCON2000 2000
4 30 5 2 ,
TRIZ 2000. 5. 8 (2001. 2.28 (

[4] USIT 5.
2015. 5.15 2015. 5.25;
2015. 6.26

5.

USIT

Ed Sickafus

3

USIT

USIT

USIT

3

4

Particles

Particles

[2]

USIT

Sickafus

Particles

Particles

5.

Step1

(1)

(2)

USIT

(

)

Step2

(A)

:

(A1)

(A2)

(A3) ()

[

]

(A4) ()

[

]

(B)

Particles

Step 3

:

Step 4:

(2)

(3)

Step 5:

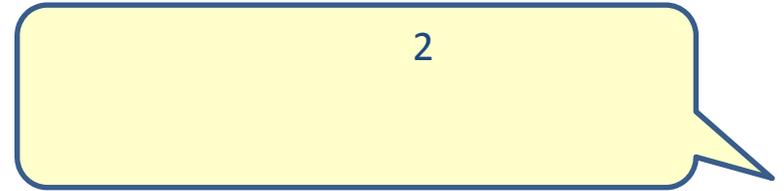
(6)

[事例 5. 発泡樹脂] Step 1:

(1)



(1)



USIT 1999 3 USIT
 Sickafus

USIT

TRIZ/USIT

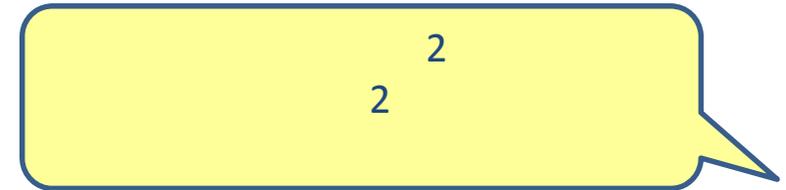
&

[事例 5. 発泡樹脂] Step 1:

(1)

(1)

USIT



1998 11 1 TRIZ
USIT
1999 3 USIT3
USIT
3 10 1
2 3 Particles
10 4 / 3
Ravi Chona (Texas A&M)
&

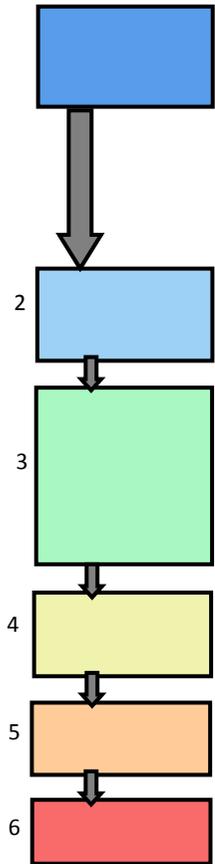
[5.] Step1

(2)

1999.312

Sickafus USIT

)



Step 1:

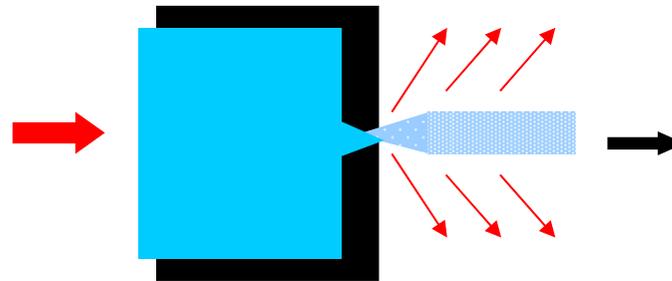
(a) :

(10 2 3)

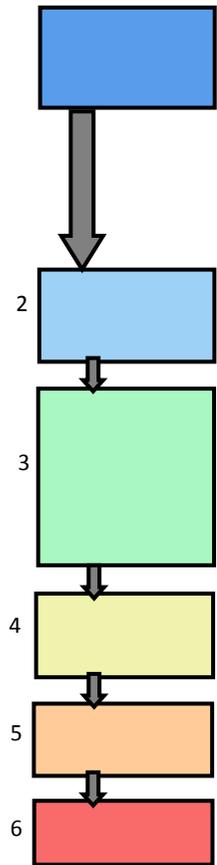
(b)

50 80)

(c) :



USIT



Step 1:

(d) :

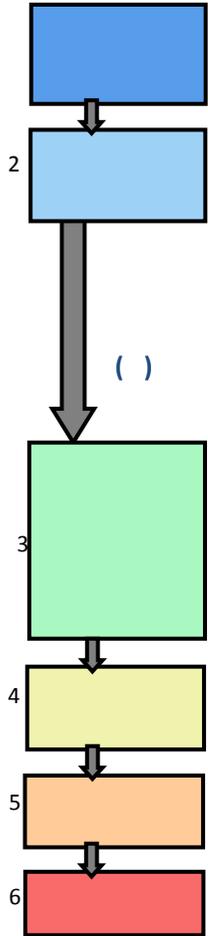
:

(e) :

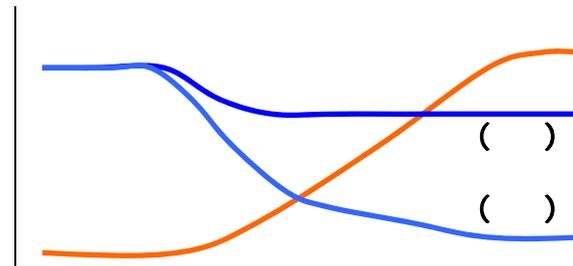
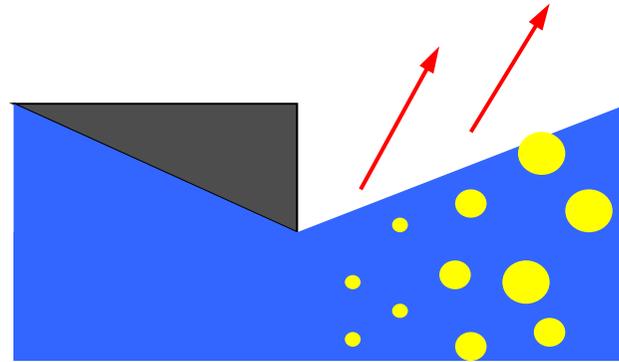
[5.] Step2

(

(A1)



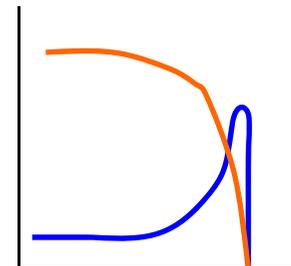
()



()

()

()

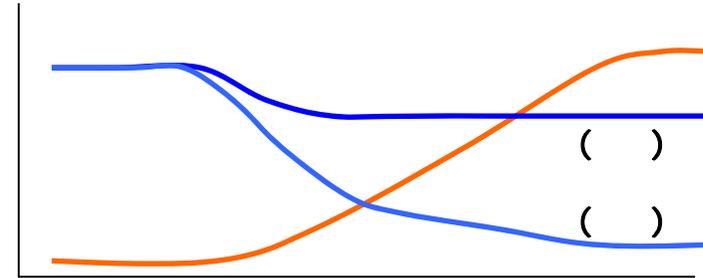
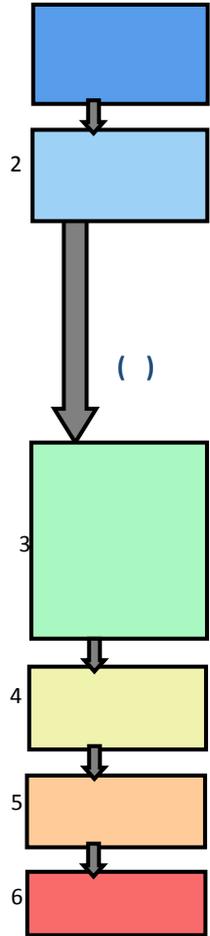


()

[5.] Step2

(

(A2)



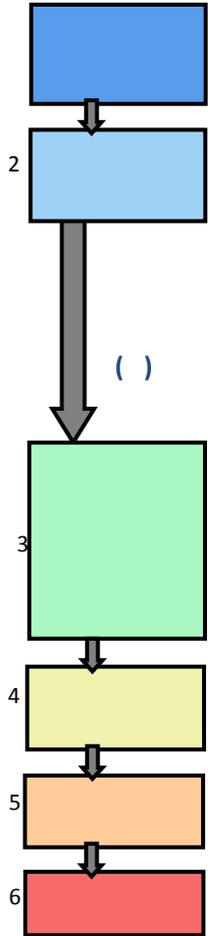
()

()

()
()

[5.] Step2 (

(A3)



[]

)

(

)

(

(

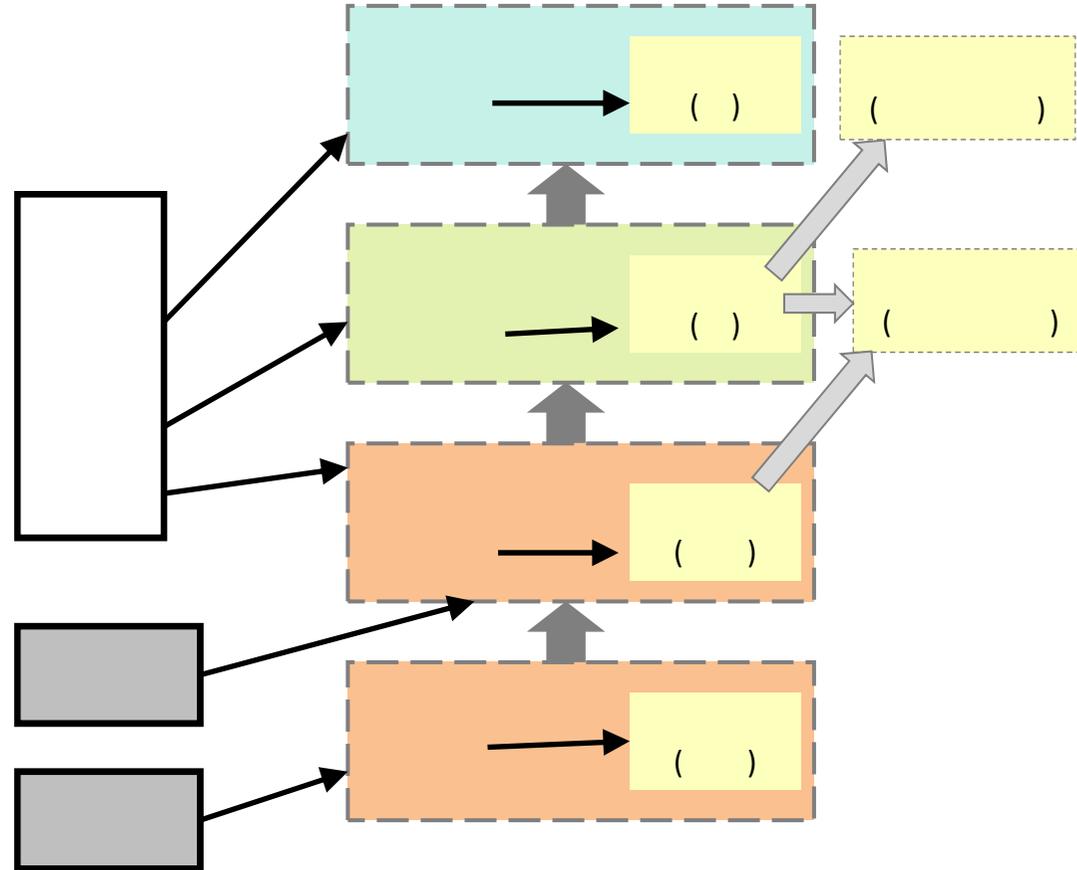
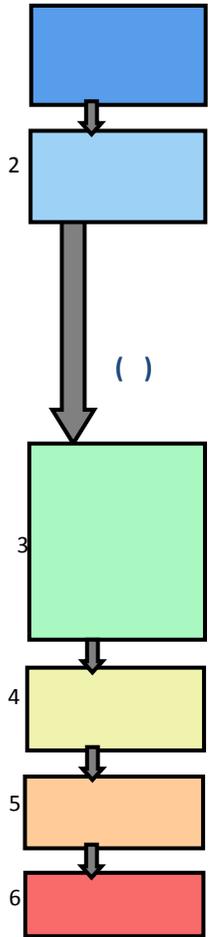
)

)

| () | | | | | |
|-----|--|--|--|--|--|
| () | | | | | |
| () | | | | | |
| | | | | | |
| | | | | | |
| () | | | | | |
| | | | | | |

[5.] Step2 (

(A4 ()



[5.]

Step2

(B)

(B)

Particles

)

Particles

Sickafus Particles

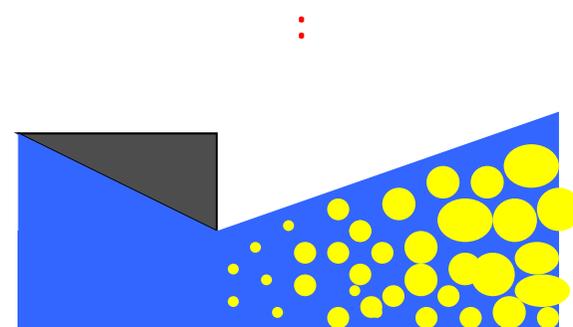
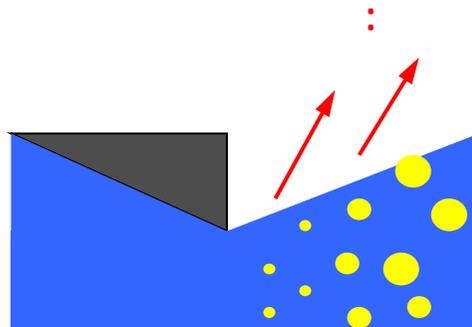
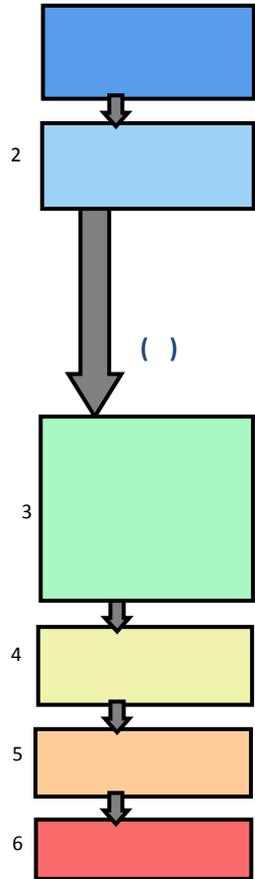
Particles

(a)

()

b)

(,)



[5.

] Step2

(B)

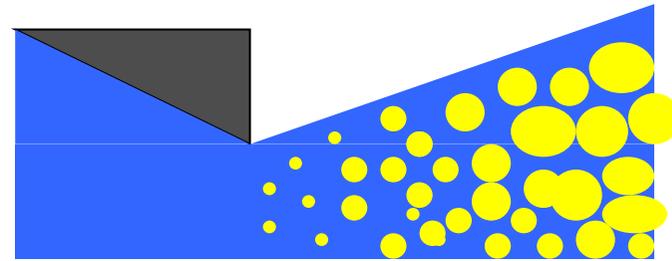
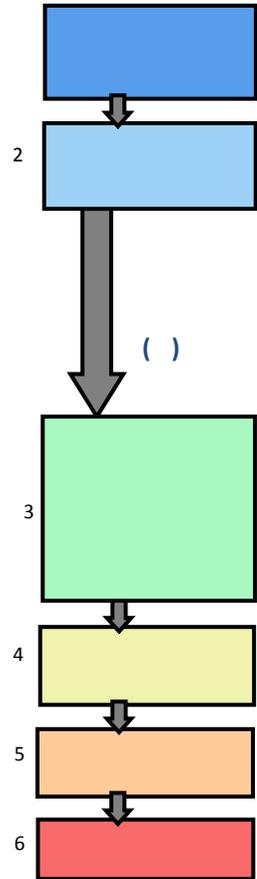
Particles ()

(c) a)(b)

” ”

Particles

Particles



[

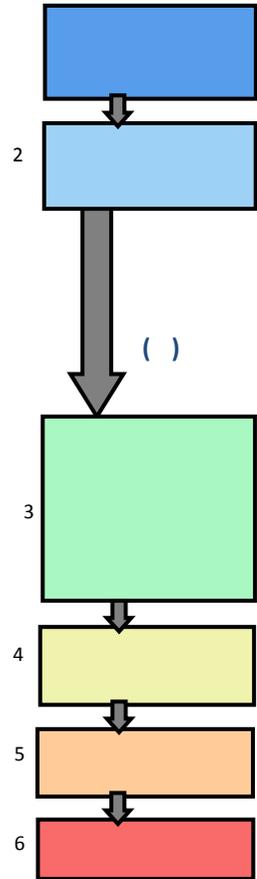
,

]

[5.

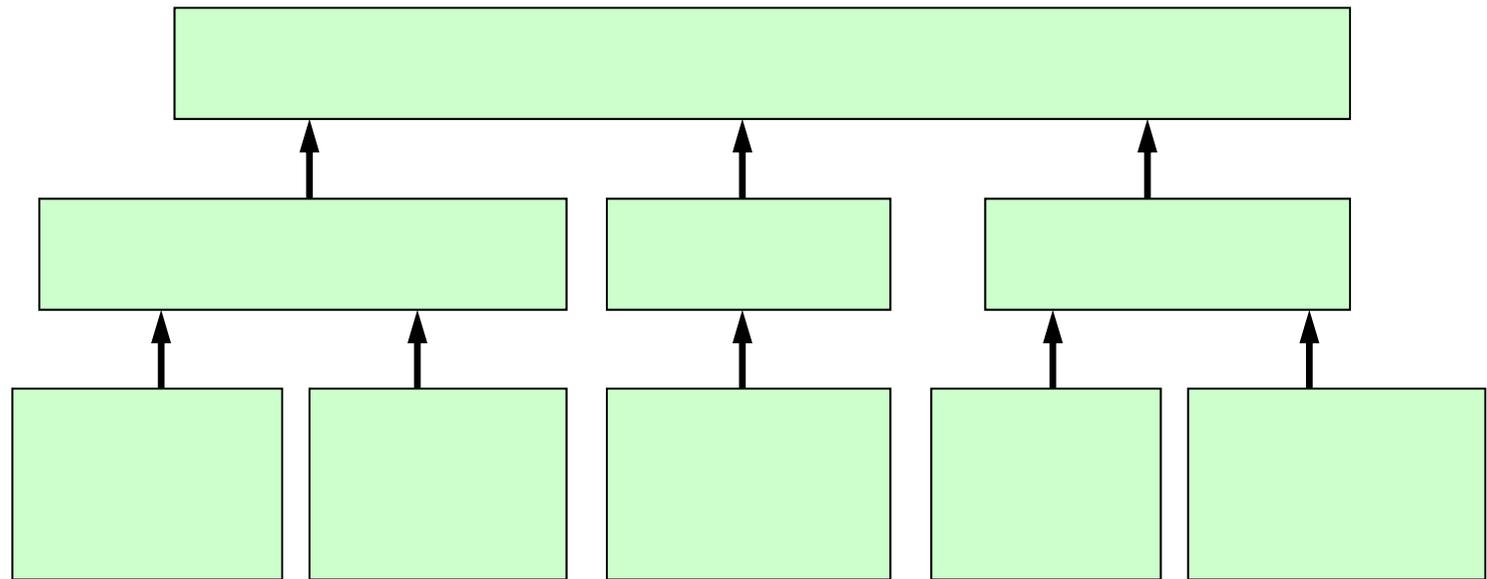
] Step2

(B)



Particles ()

(d) Particles ()



Particles

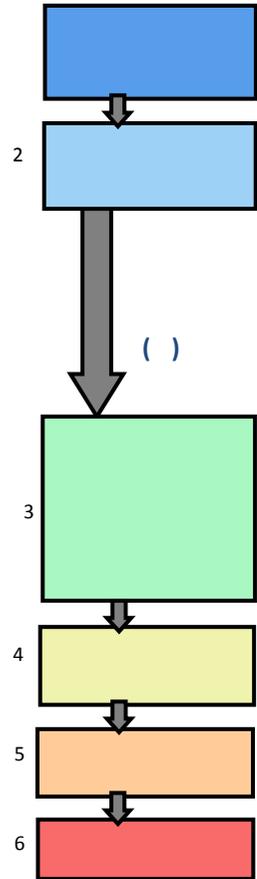
?

()

[5.

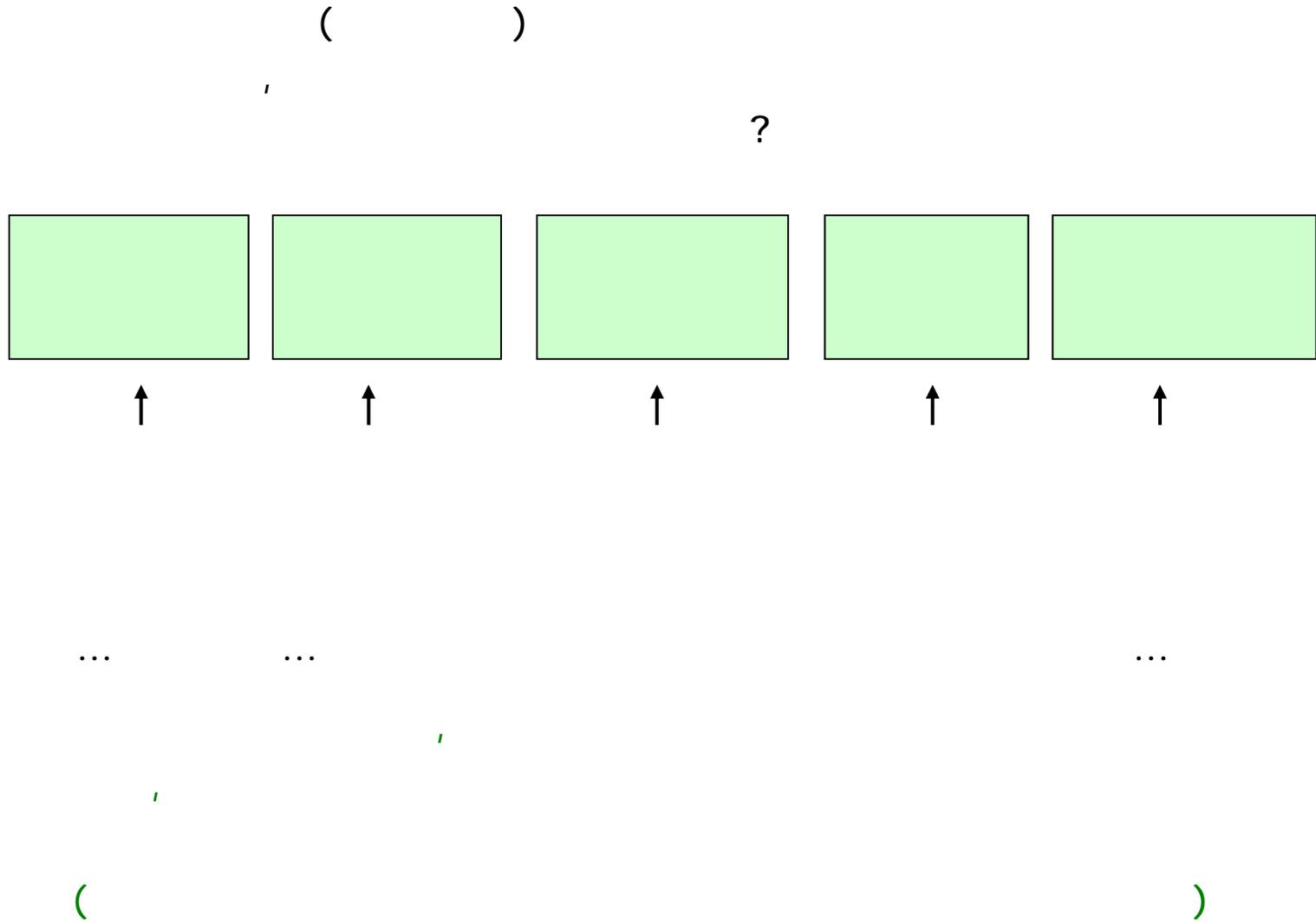
] Step2

(B)

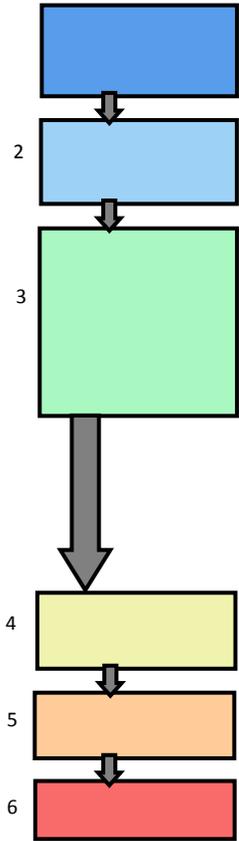
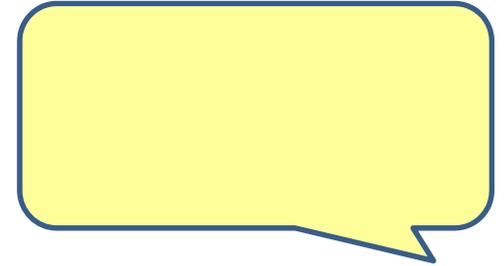


Particles ()

(e) Particles ()



[5.] Step3



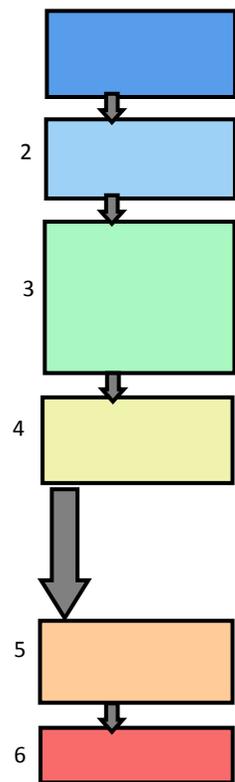
--> ()

()

(

)

[事例 5. 発泡樹脂] Step 4



Step 4:

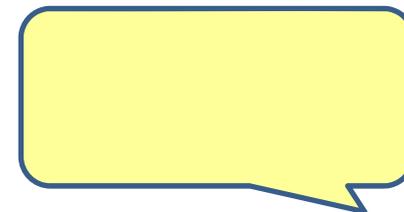
(1)

(2)

(3)

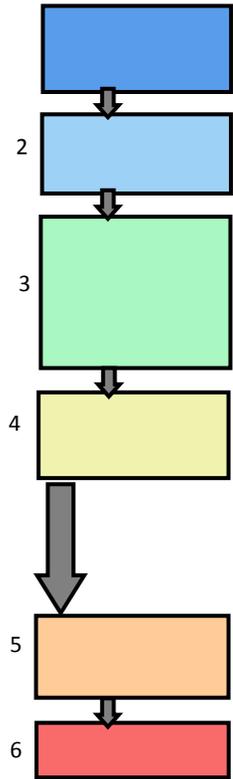
(4)

, or or



[事例 5. 発泡樹脂] Step 4

()



USIT

USIT

3 1

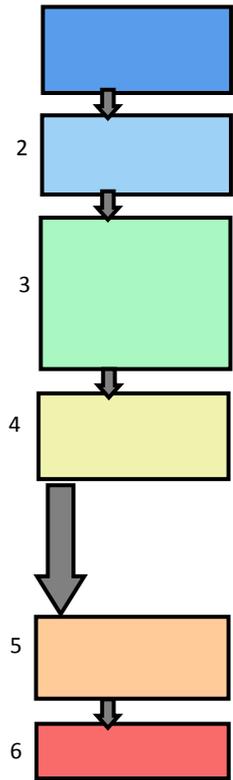
USIT Particles

USIT

1

TRIZ

(1999. 7)



)

Dr. Sickafus

Particles

1999

