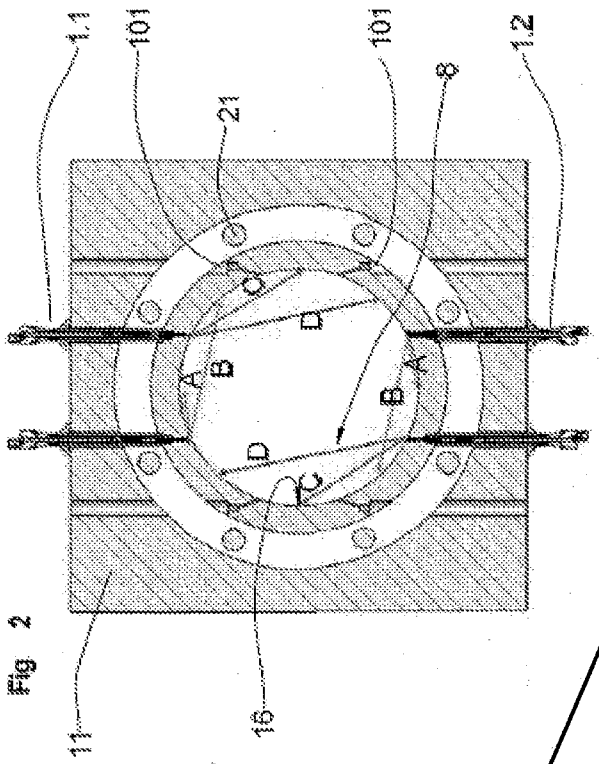


Fig 2

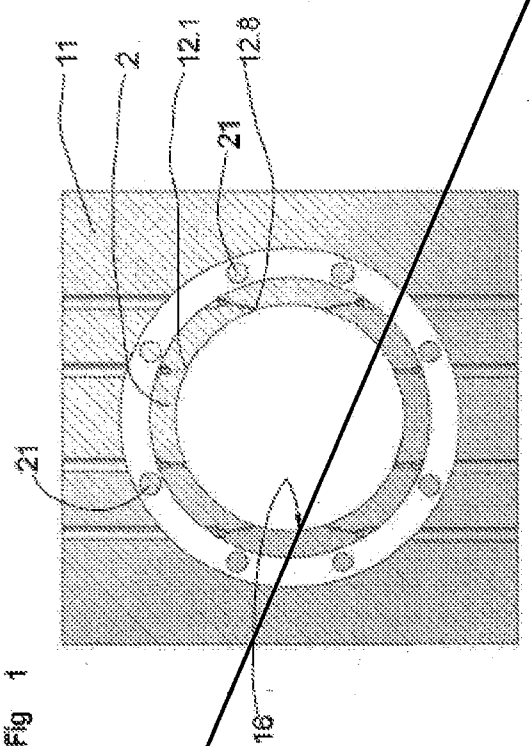


Fig 1

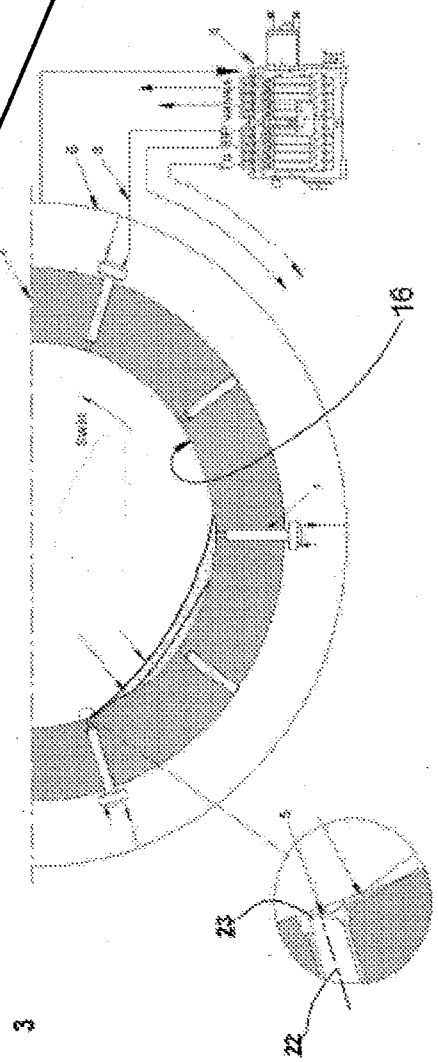


Fig 3

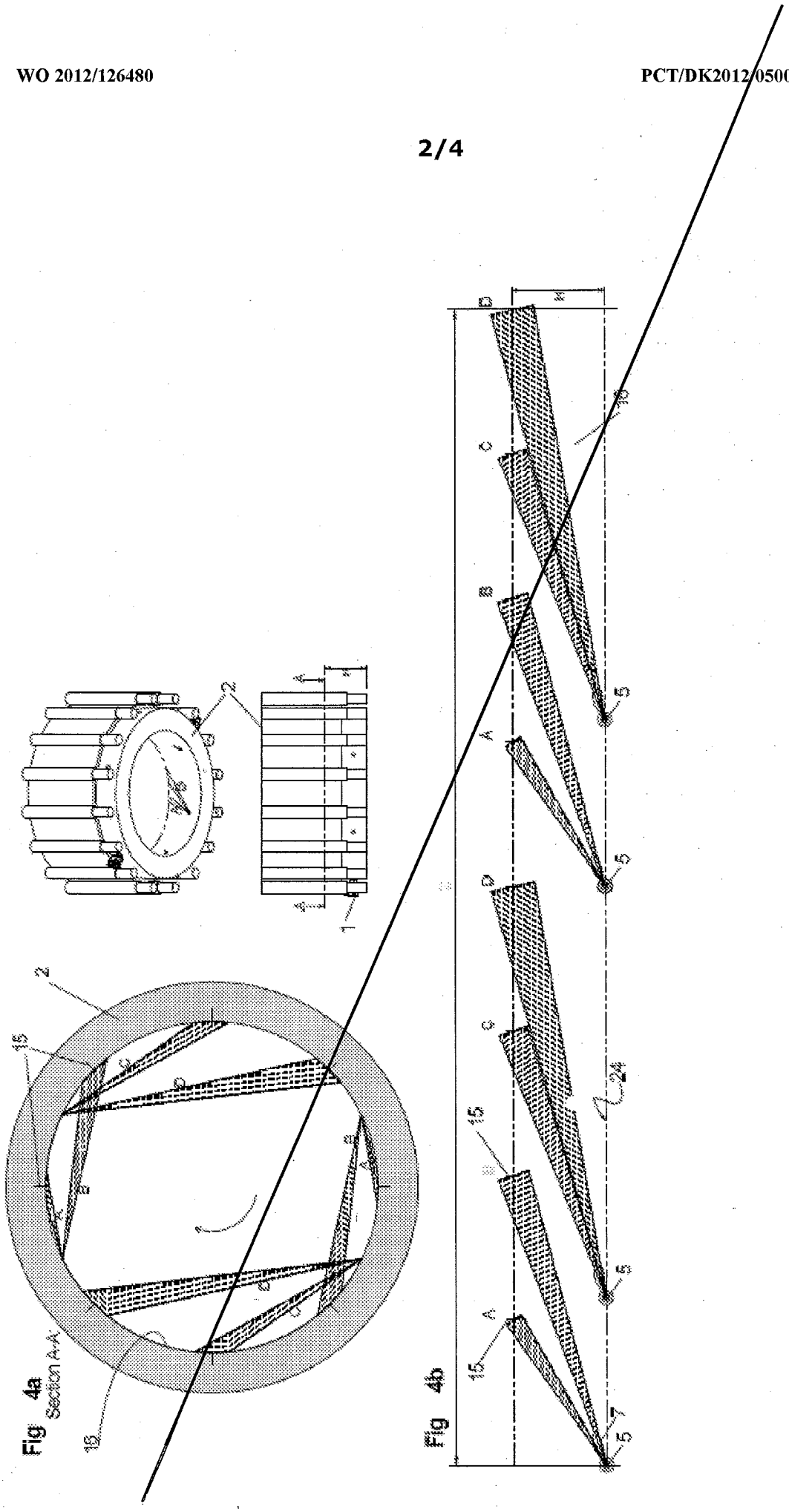
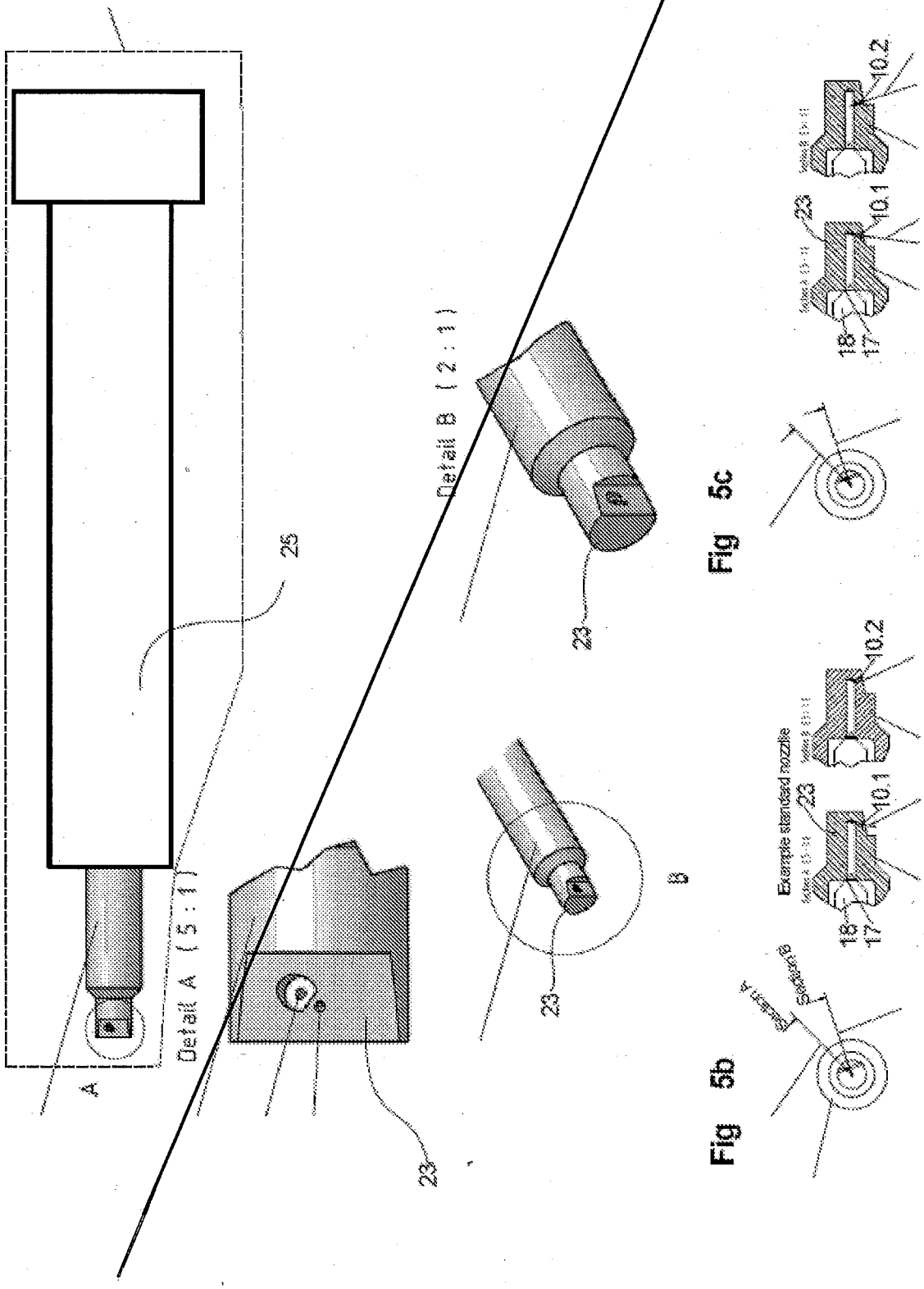


Fig 4a

Fig 4b


25
A
Detail A (5 : 1)
23
Detail B (2 : 1)
23
B
23
Fig 5b
Example standard nozzle
10.2
10.1
23
18
17
Fig 5c

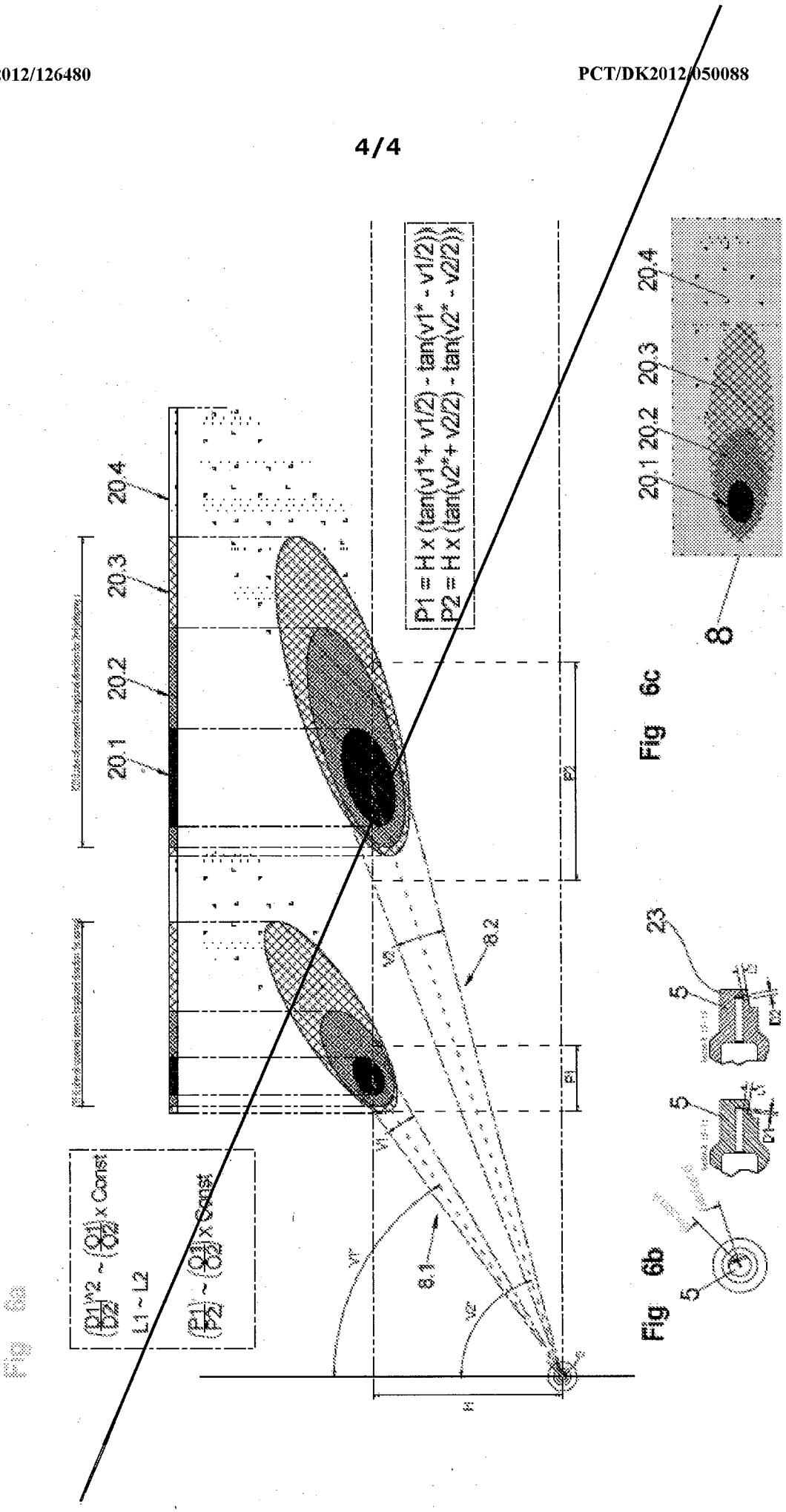


Fig 6c

Fig 6b

Fig 6a

Fig. 1

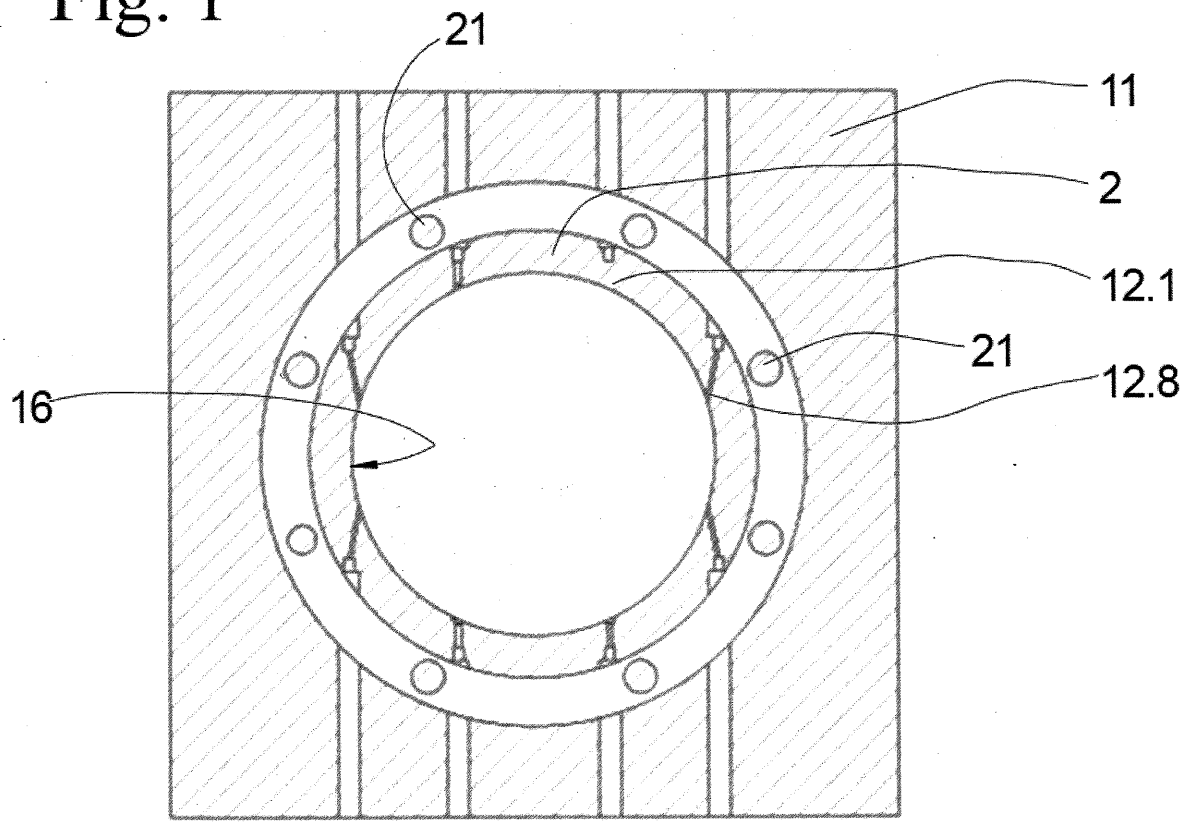
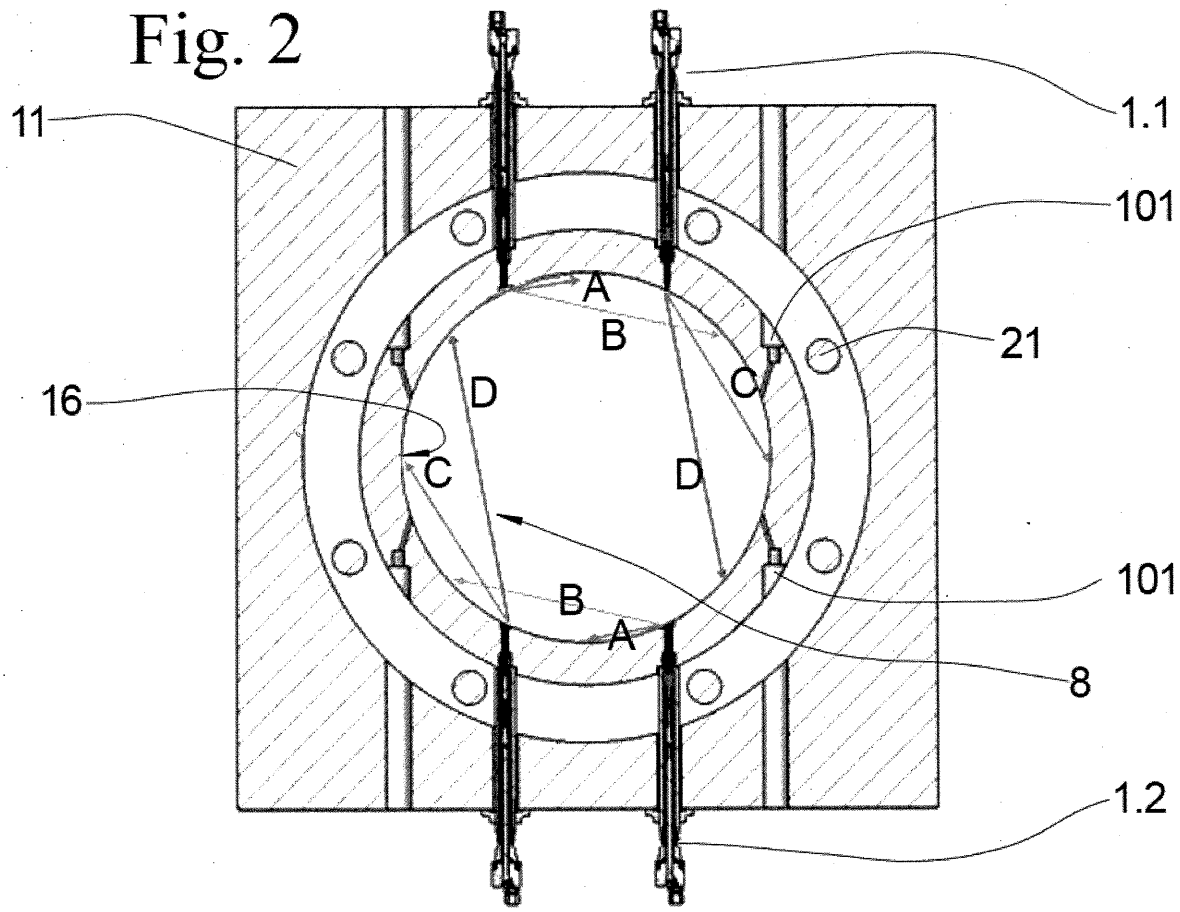


Fig. 2



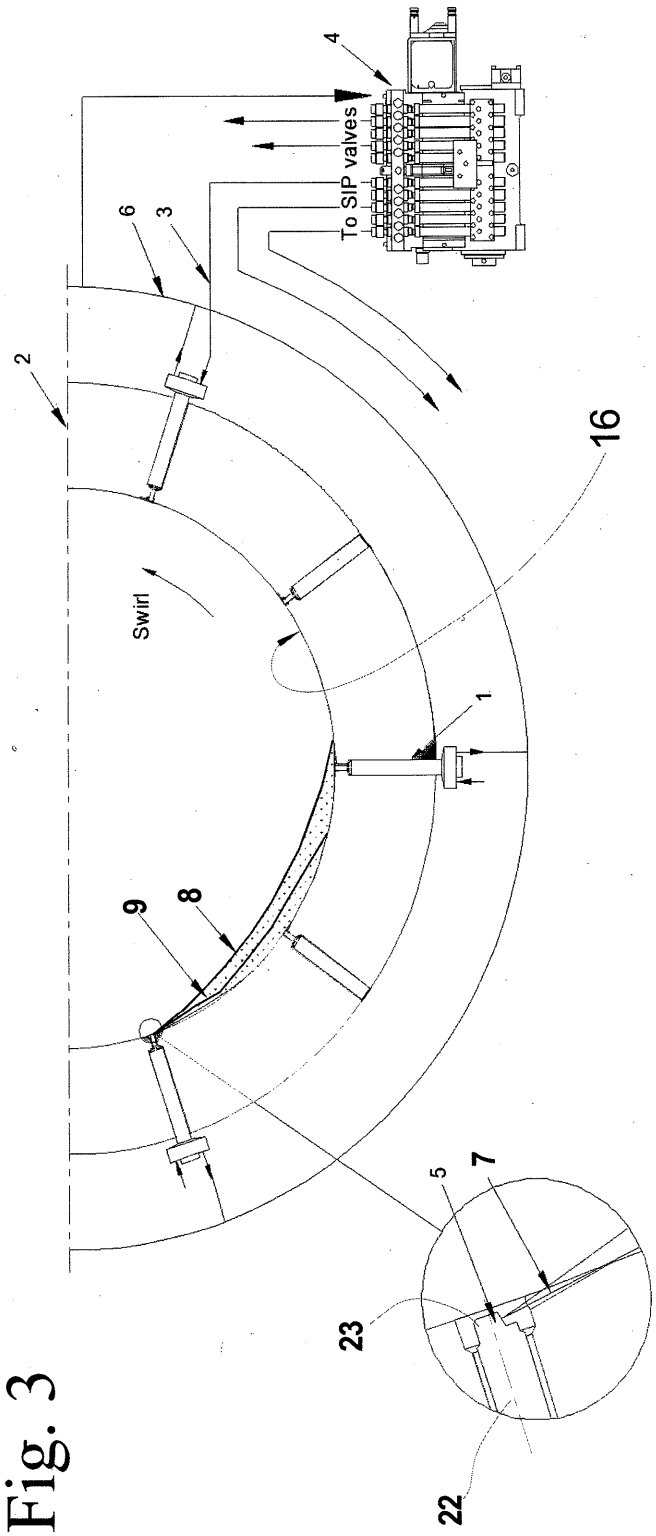


Fig. 3

Fig. 4a

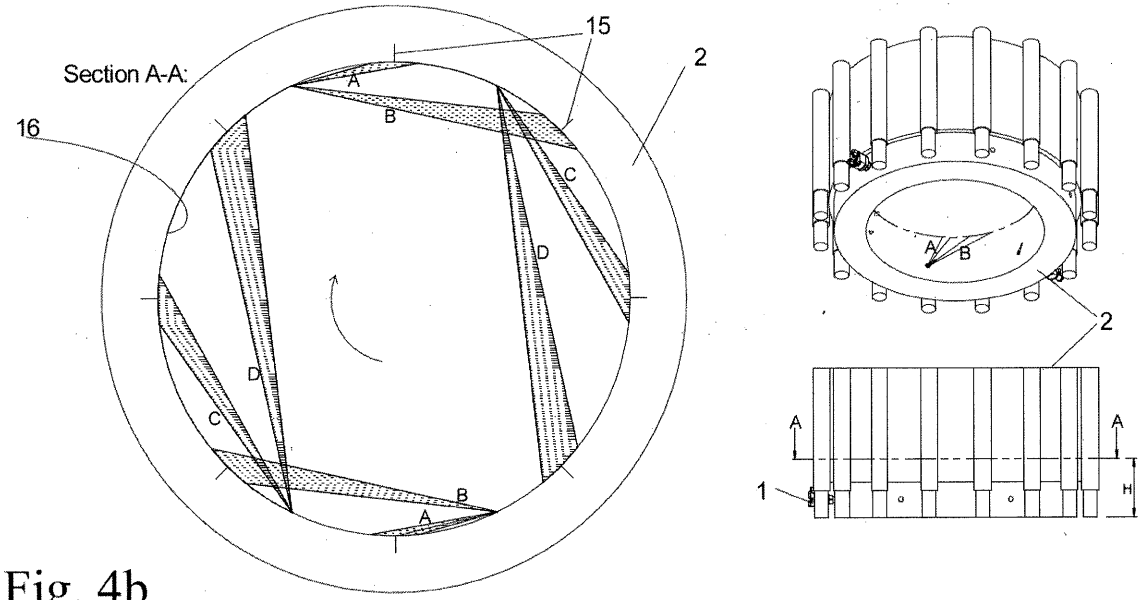

Section A-A:
15
2
16
A
B
C
D
D
C
B
A
A
B
2
A
A
1
H

Fig. 4b

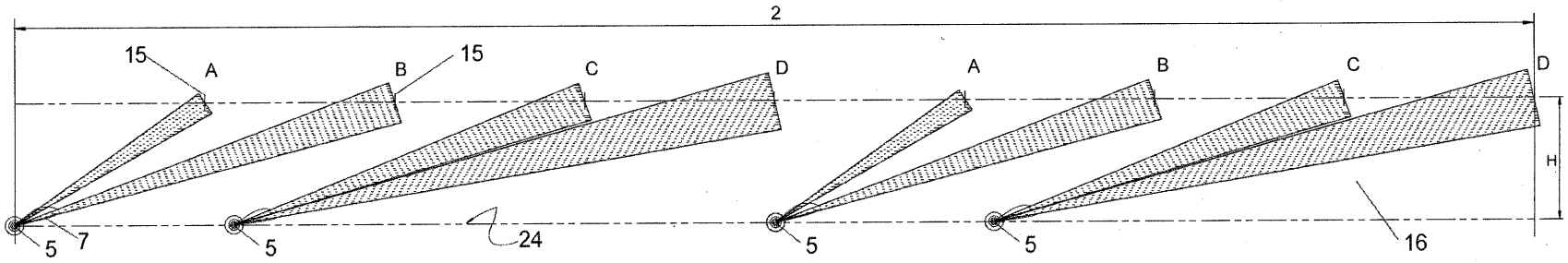

2
15
A
B
15
C
D
A
B
C
D
H
5
7
5
24
5
5
16

Fig. 5a

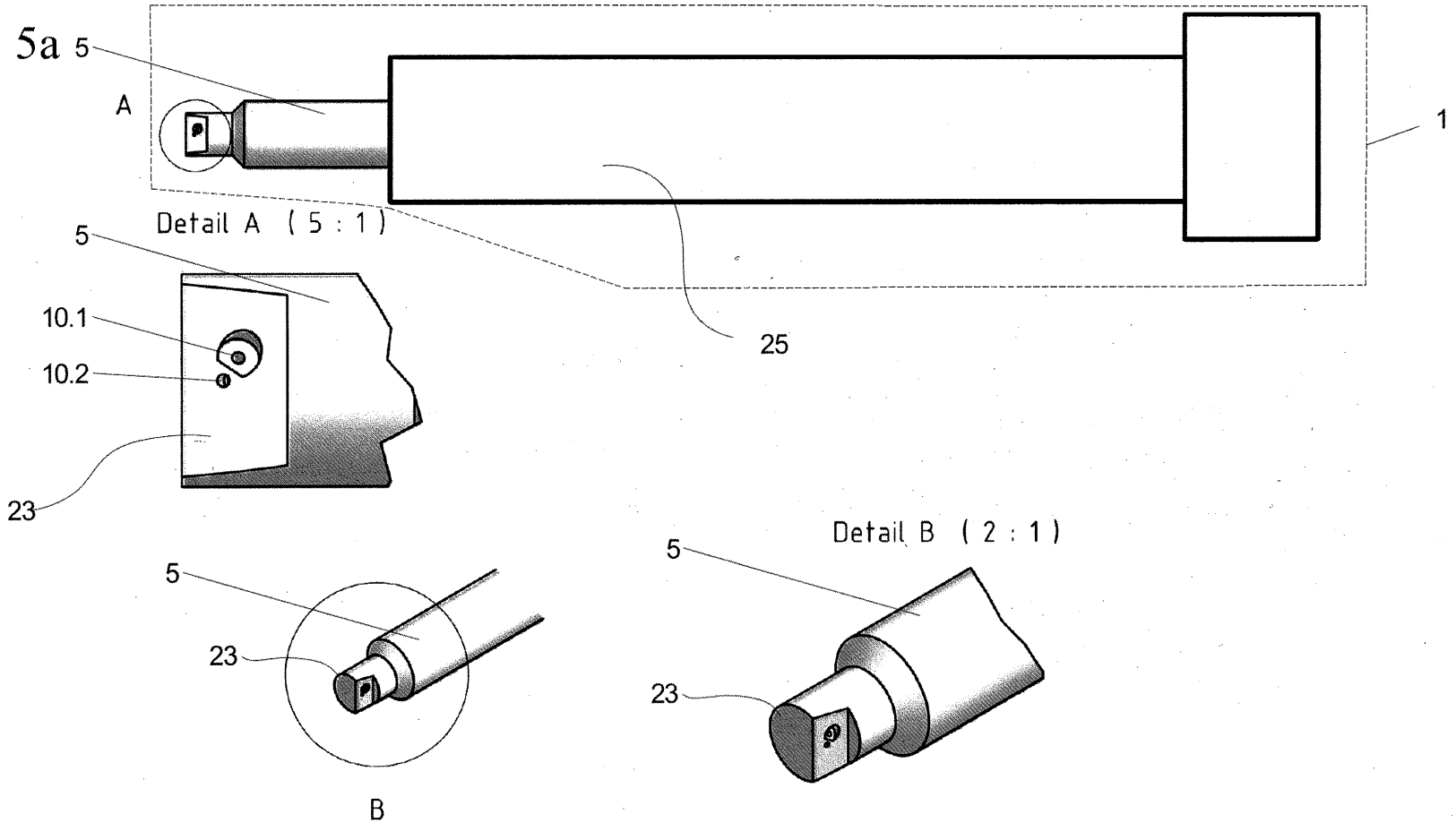


Fig. 5b

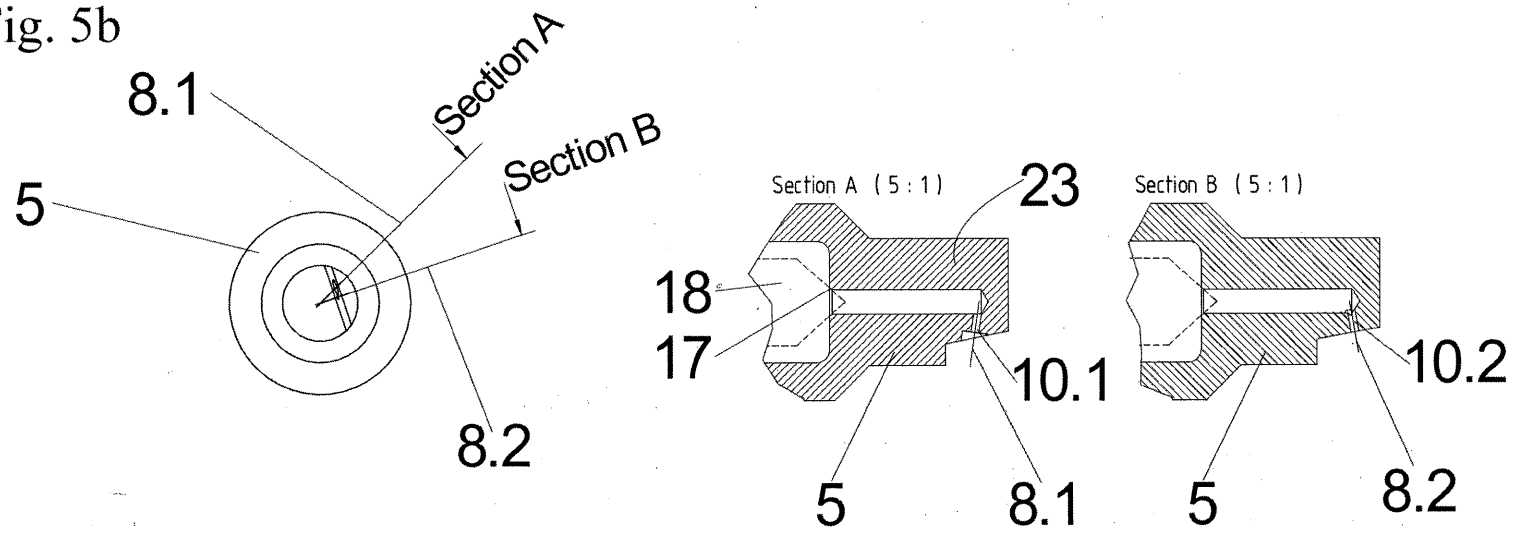

8.1
Section A
Section B
5
8.2
Section A (5 : 1)
23
18
17
10.1
5
8.1
Section B (5 : 1)
10.2
5
8.2

Fig. 5c

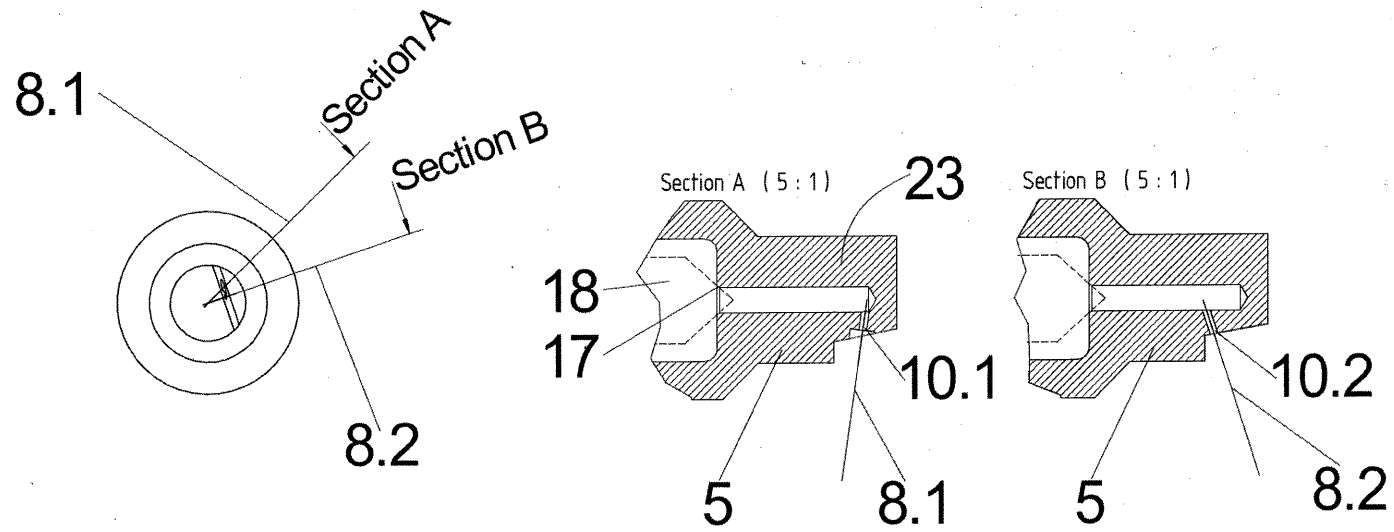

8.1
Section A
Section B
8.2
Section A (5 : 1)
23
18
17
10.1
5
8.1
Section B (5 : 1)
10.2
5
8.2

Fig. 6a

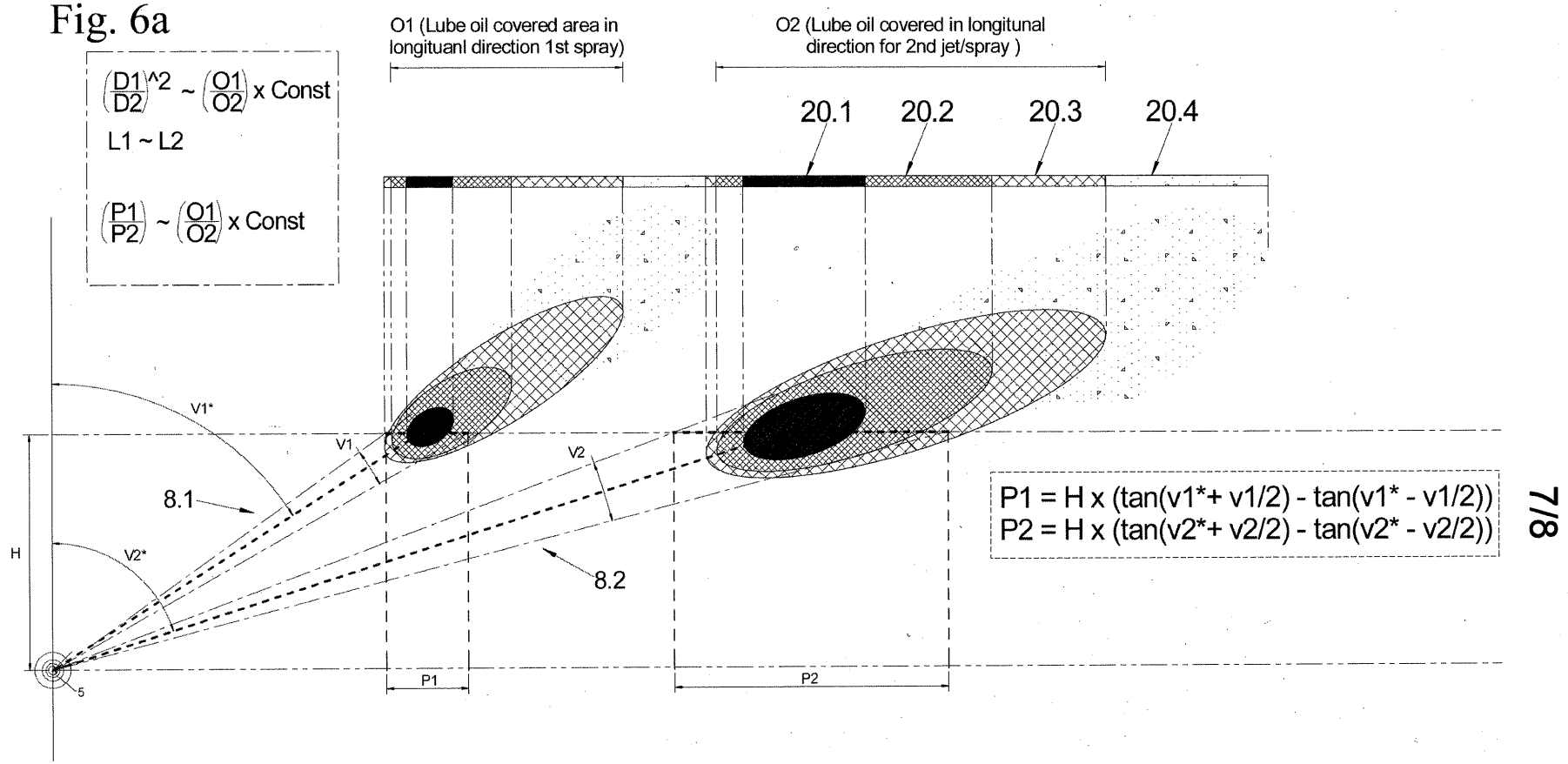

$\left(\frac{D1}{D2}\right)^{\wedge}2 \sim \left(\frac{O1}{O2}\right)$ x Const
L1 ~ L2
$\left(\frac{P1}{P2}\right) \sim \left(\frac{O1}{O2}\right)$ x Const
O1 (Lube oil covered area in longituanl direction 1st spray)
O2 (Lube oil covered in longitunal direction for 2nd jet/spray)
20.1
20.2
20.3
20.4
V1*
V1
V2
8.1
8.2
H
V2*
5
P1
P2
P1 = H x (tan(v1*+ v1/2) - tan(v1* - v1/2))
P2 = H x (tan(v2*+ v2/2) - tan(v2* - v2/2))

Fig. 6b

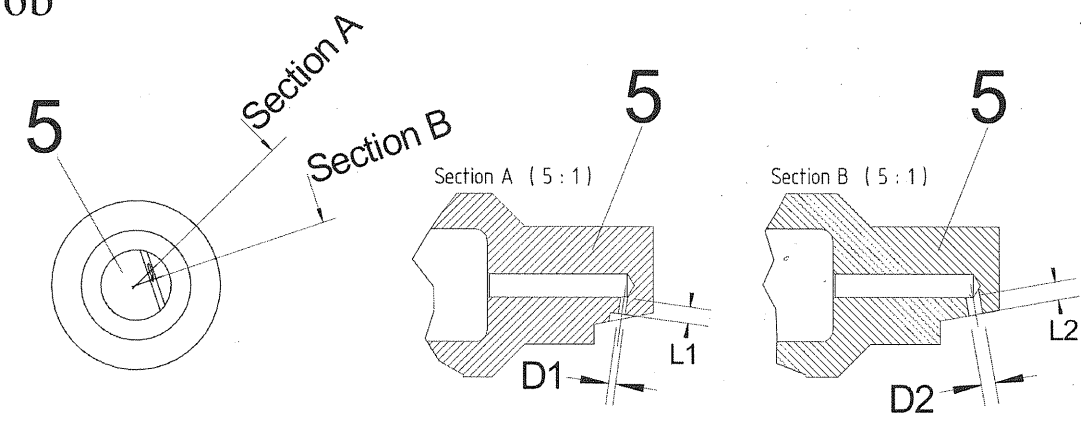
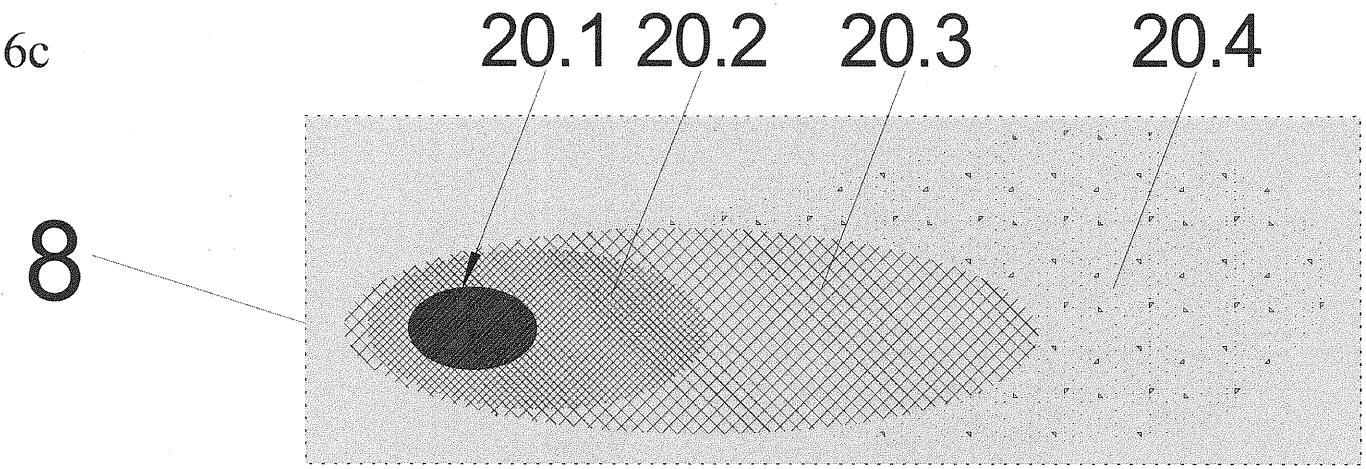

5
Section A
Section B
Section A (5 : 1)
5
D1
L1
Section B (5 : 1)
5
L2
D2

Fig. 6c


20.1
20.2
20.3
20.4
8