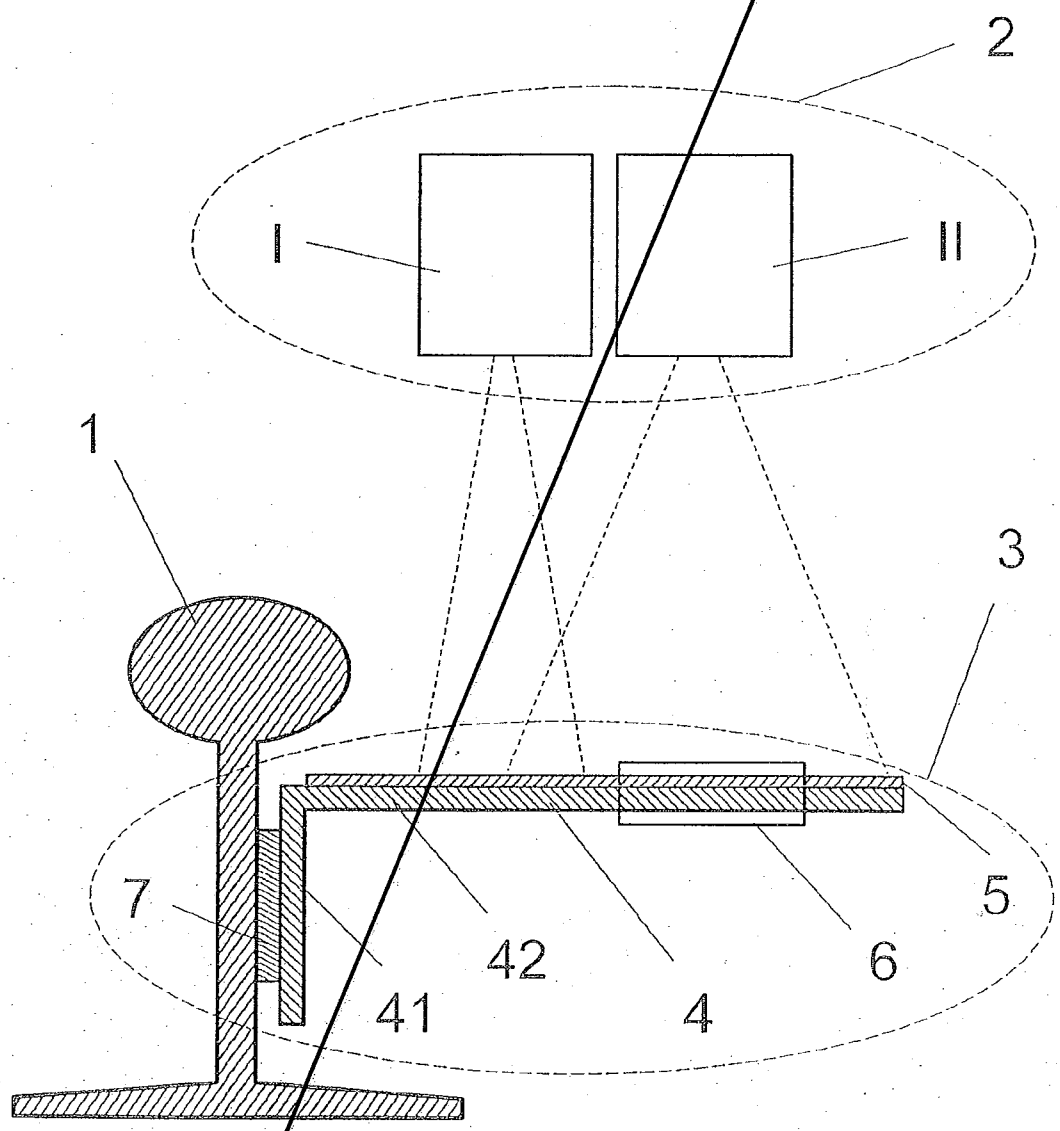


Fig. 1

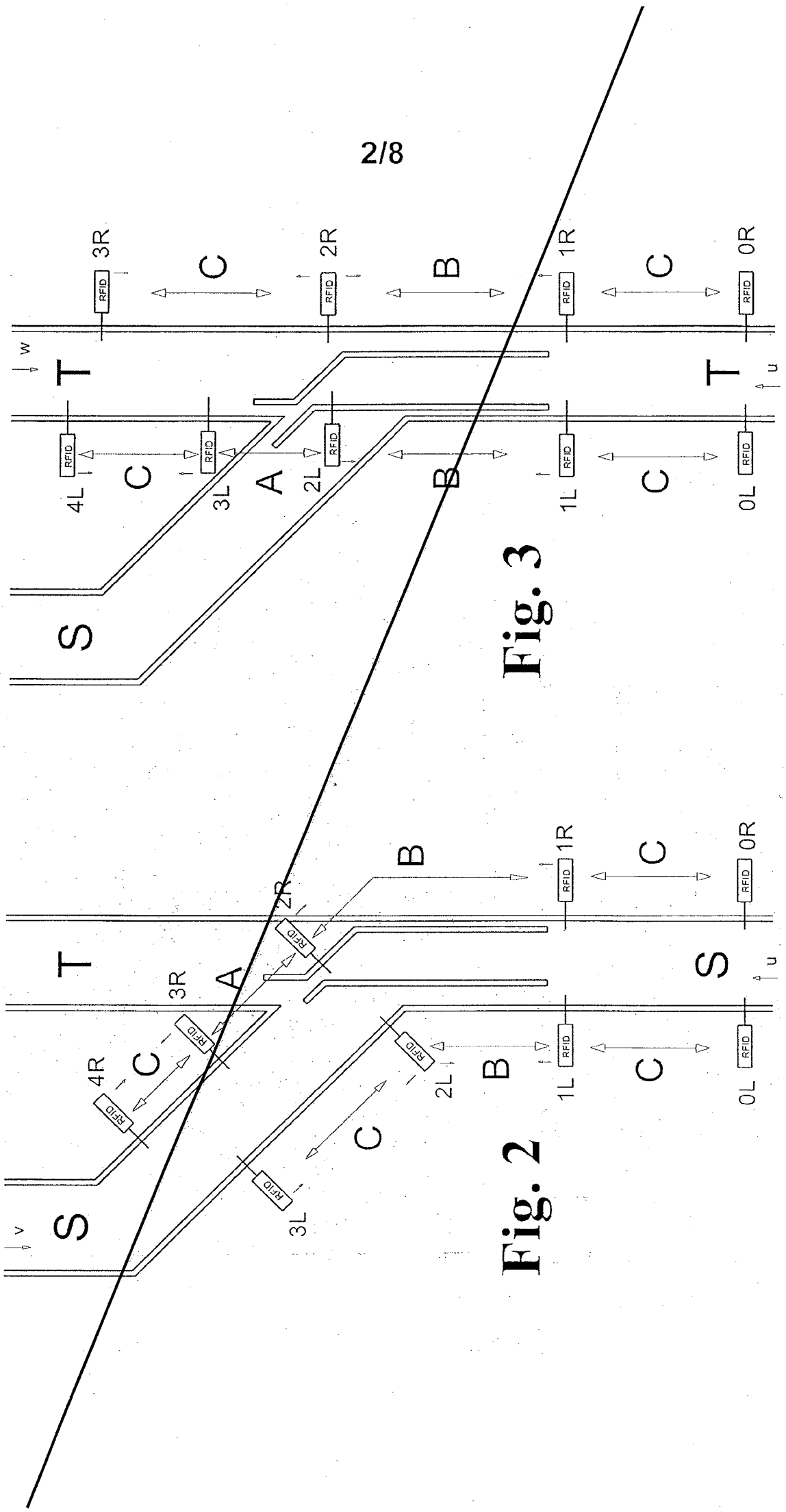


Fig. 3

Fig. 2

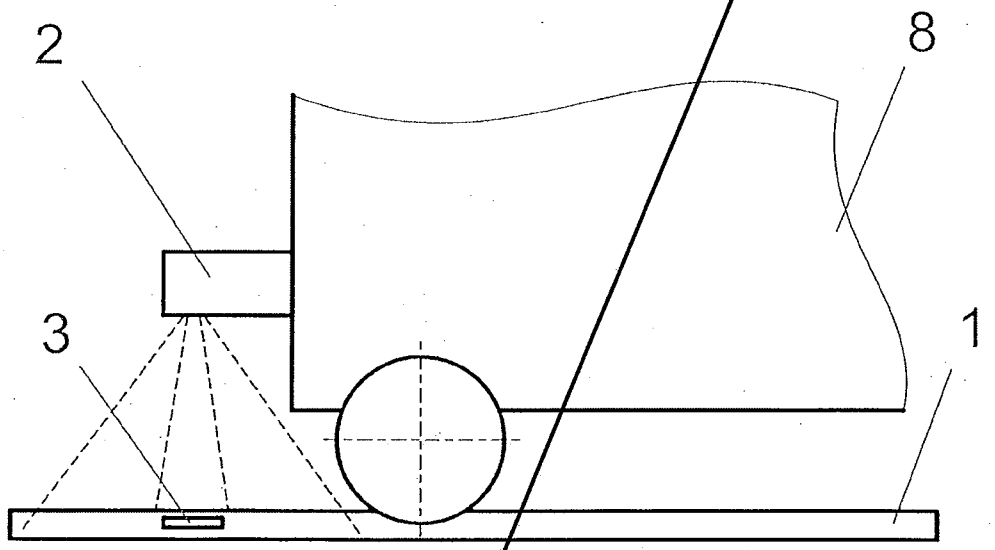


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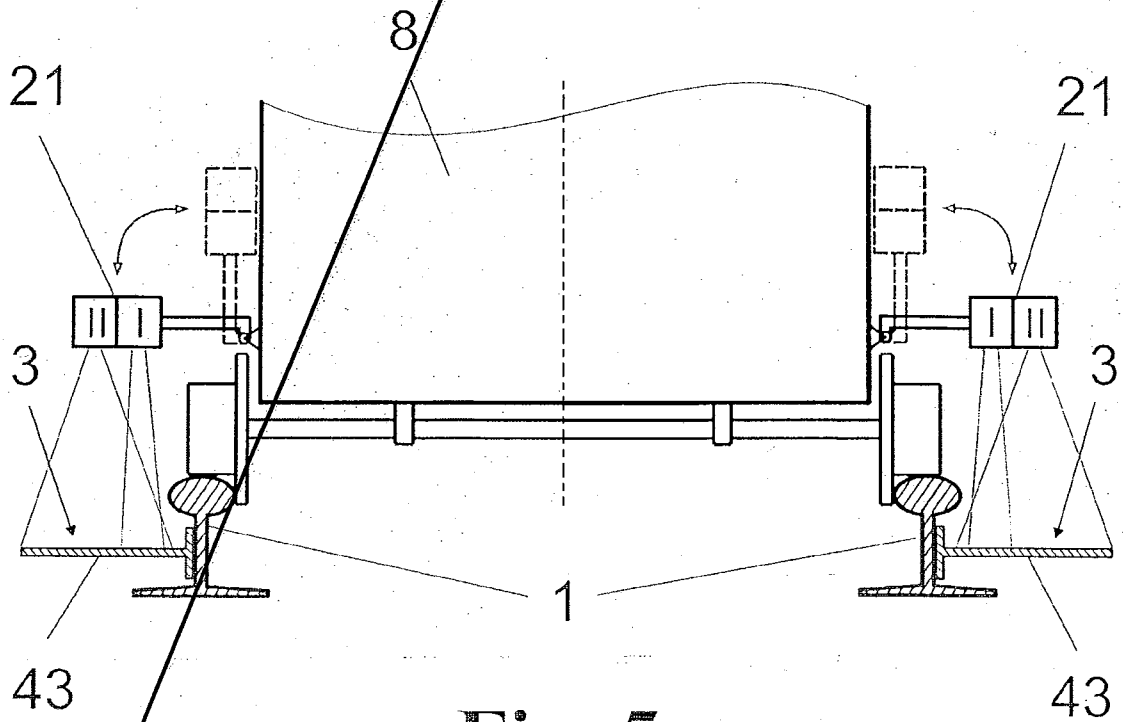


Fig. 5

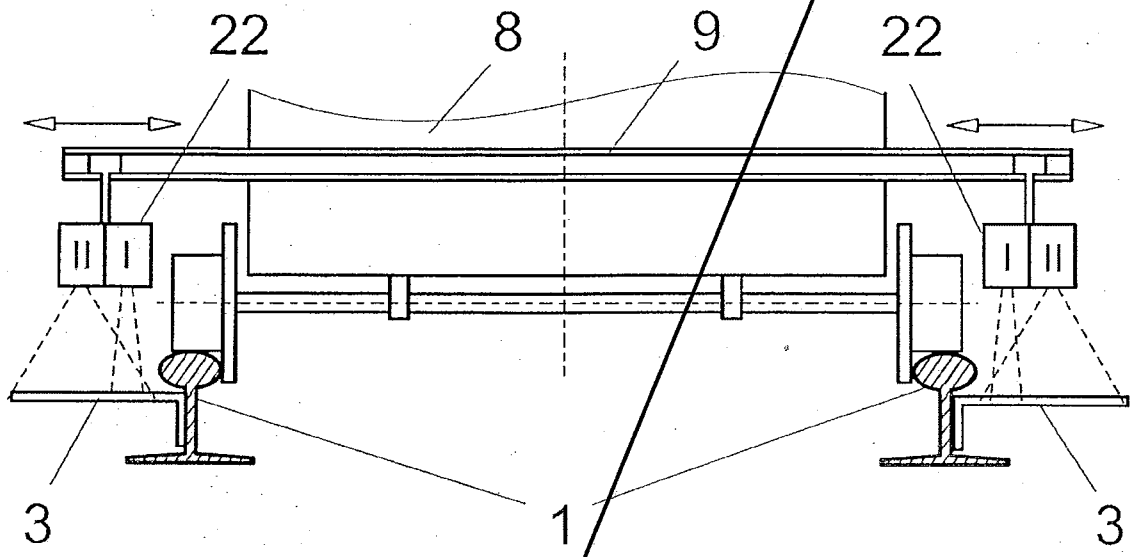


Fig. 6

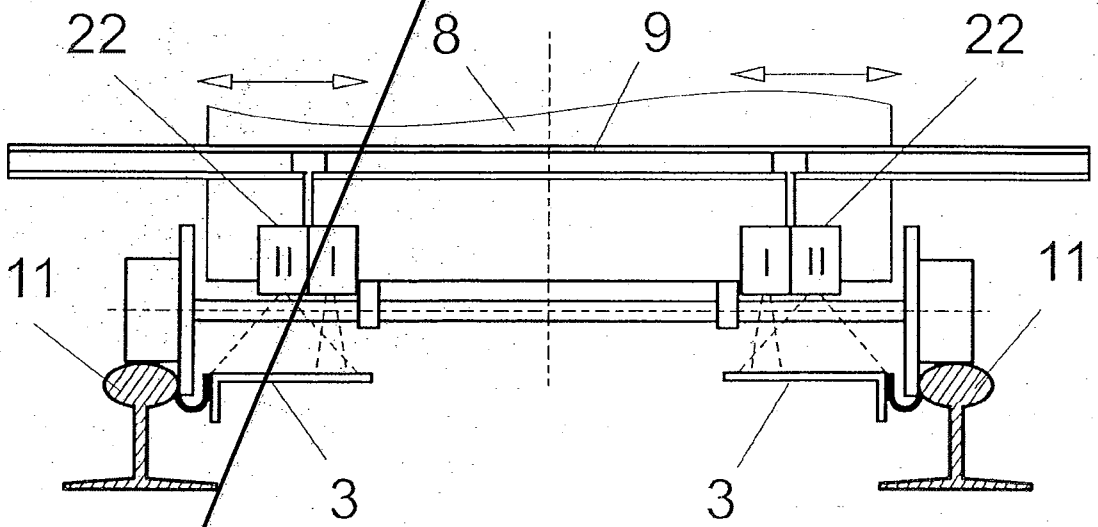


Fig. 7

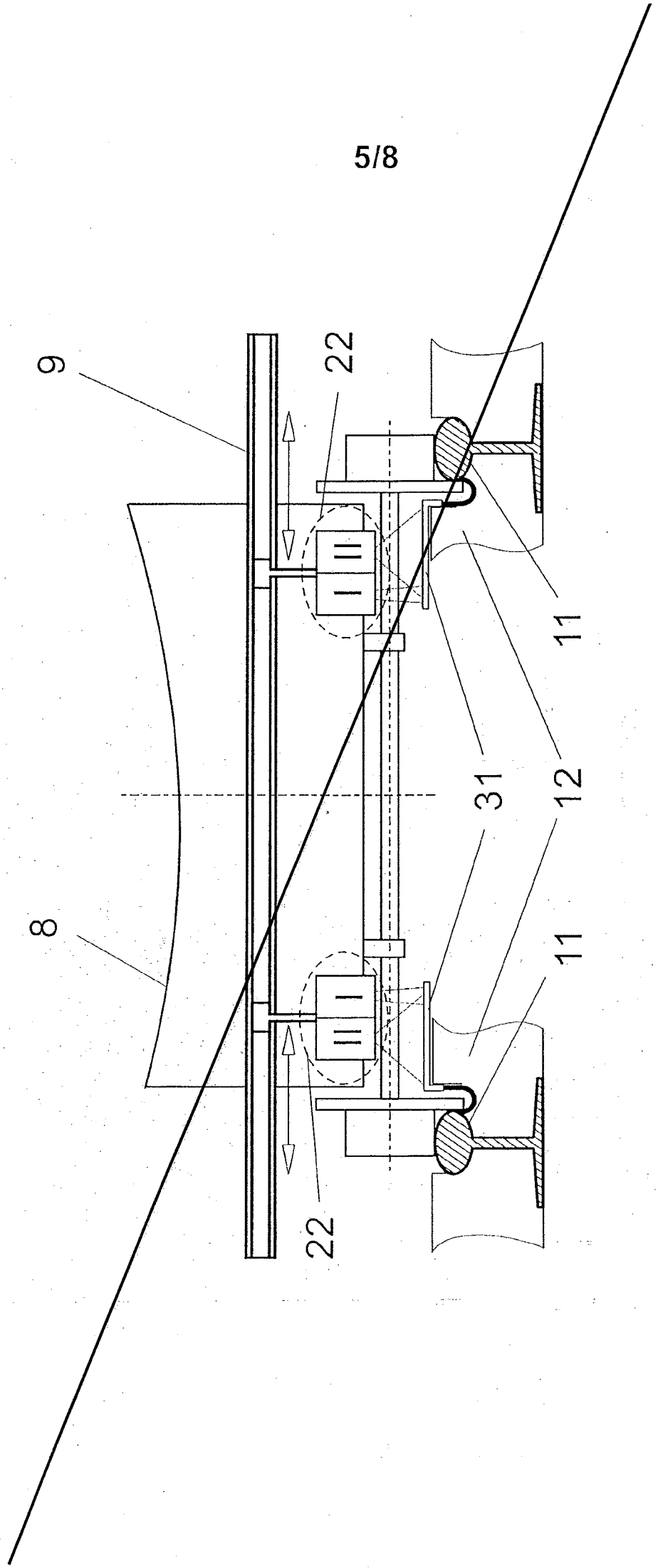


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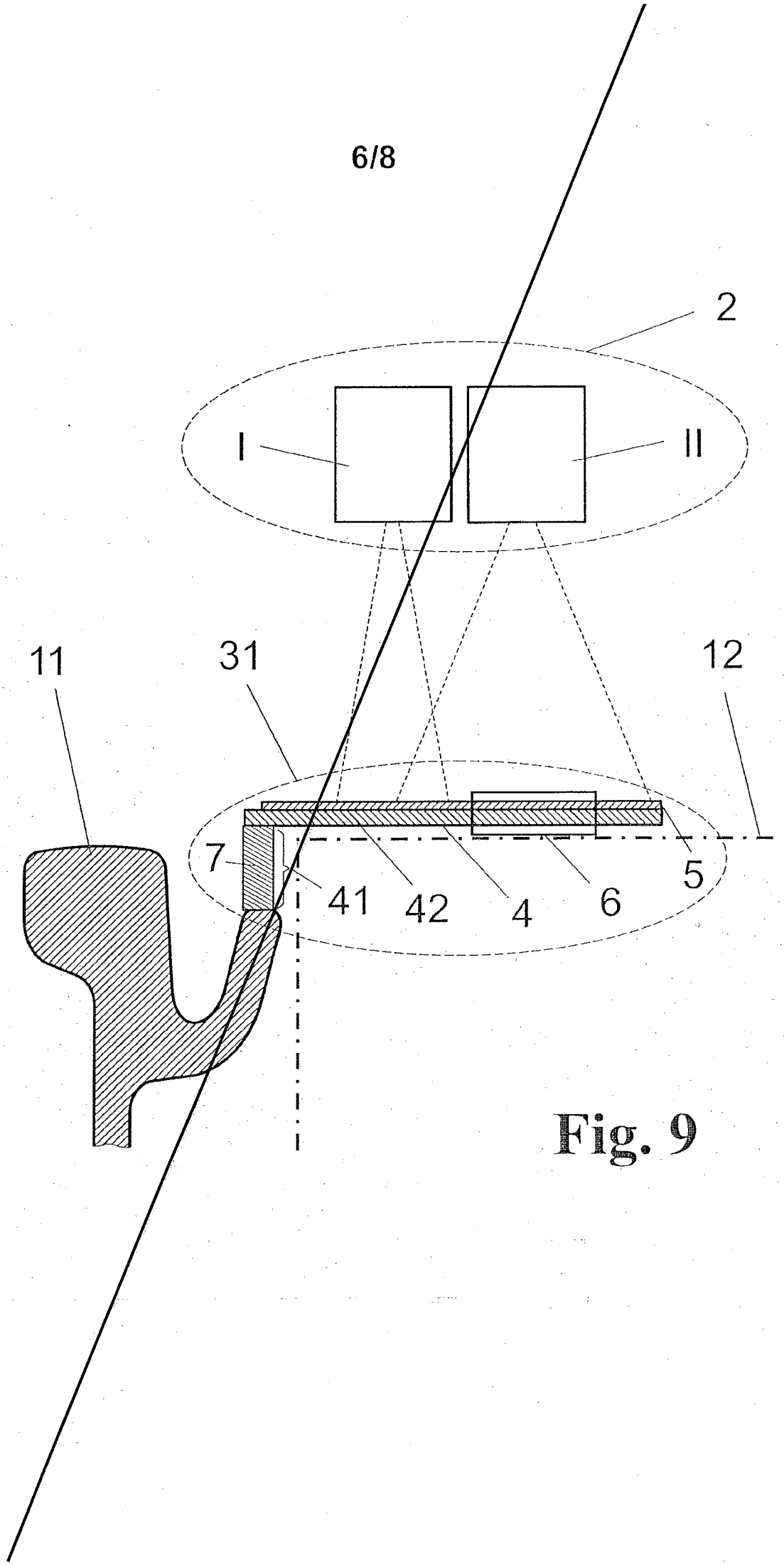


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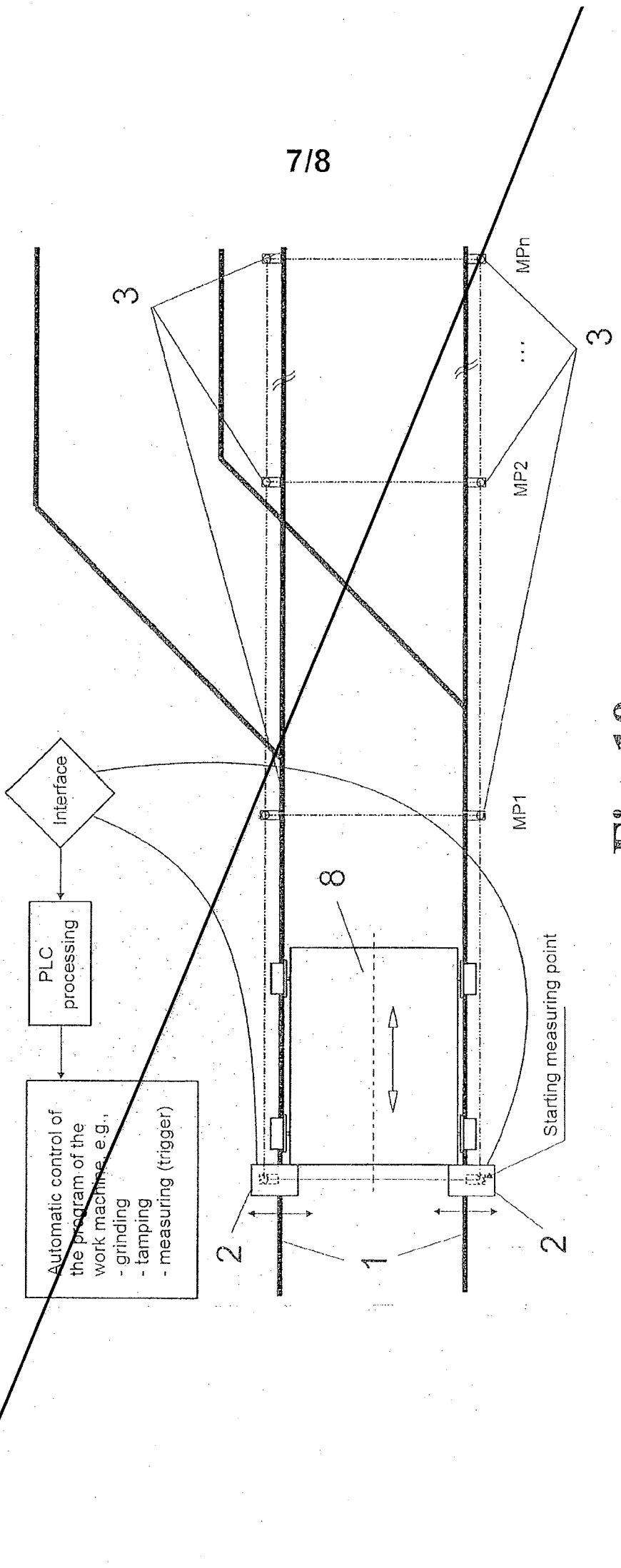

Interface
PLC processing
Automatic control of the program of the work machine, e.g.,
- grinding
- tamping
- measuring (trigger)
3
3
MPn
...
MP2
MP1
8
Starting measuring point
2
1
2

Fig. 10

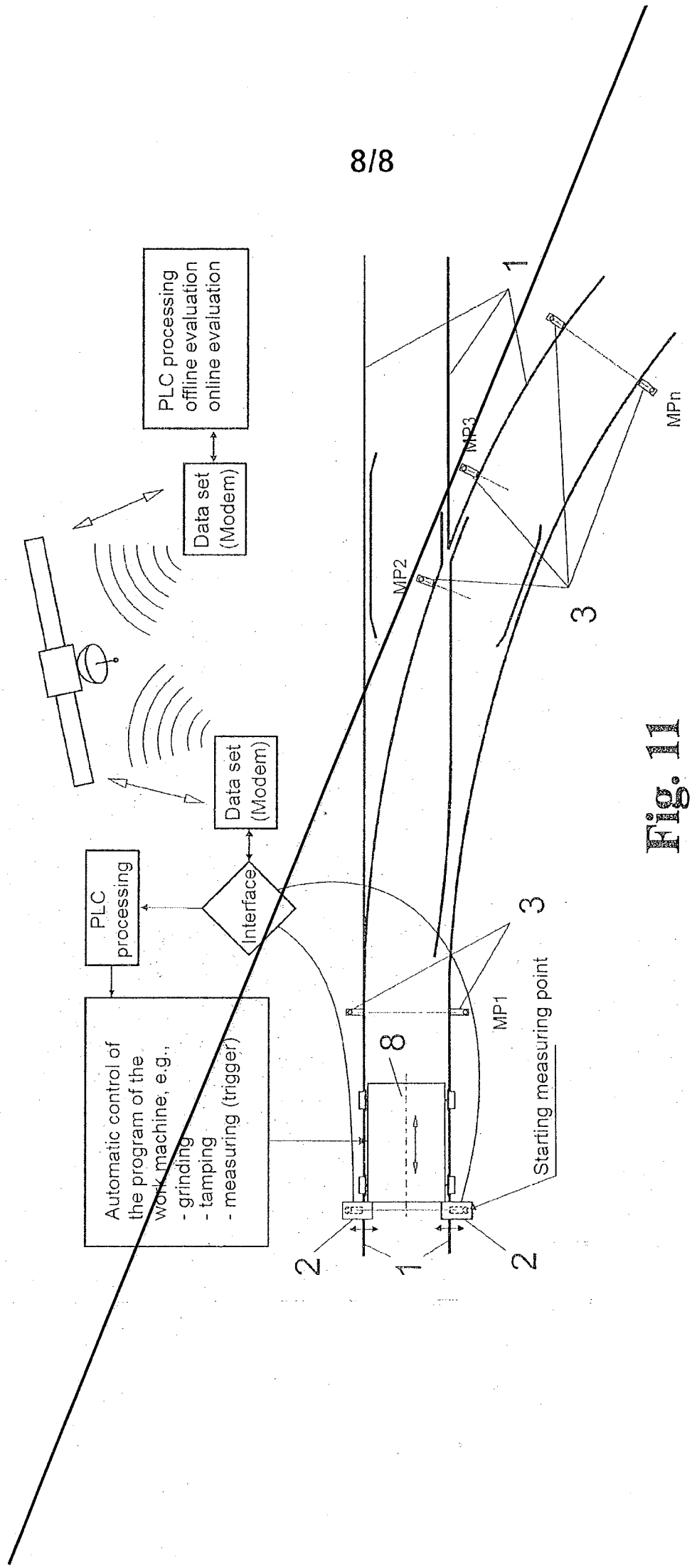

PLC processing
offline evaluation
online evaluation
Data set
(Modem)
Data set
(Modem)
PLC
processing
Interface
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MP1
MP2
MP3
MPn
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2
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8

Fig. 11

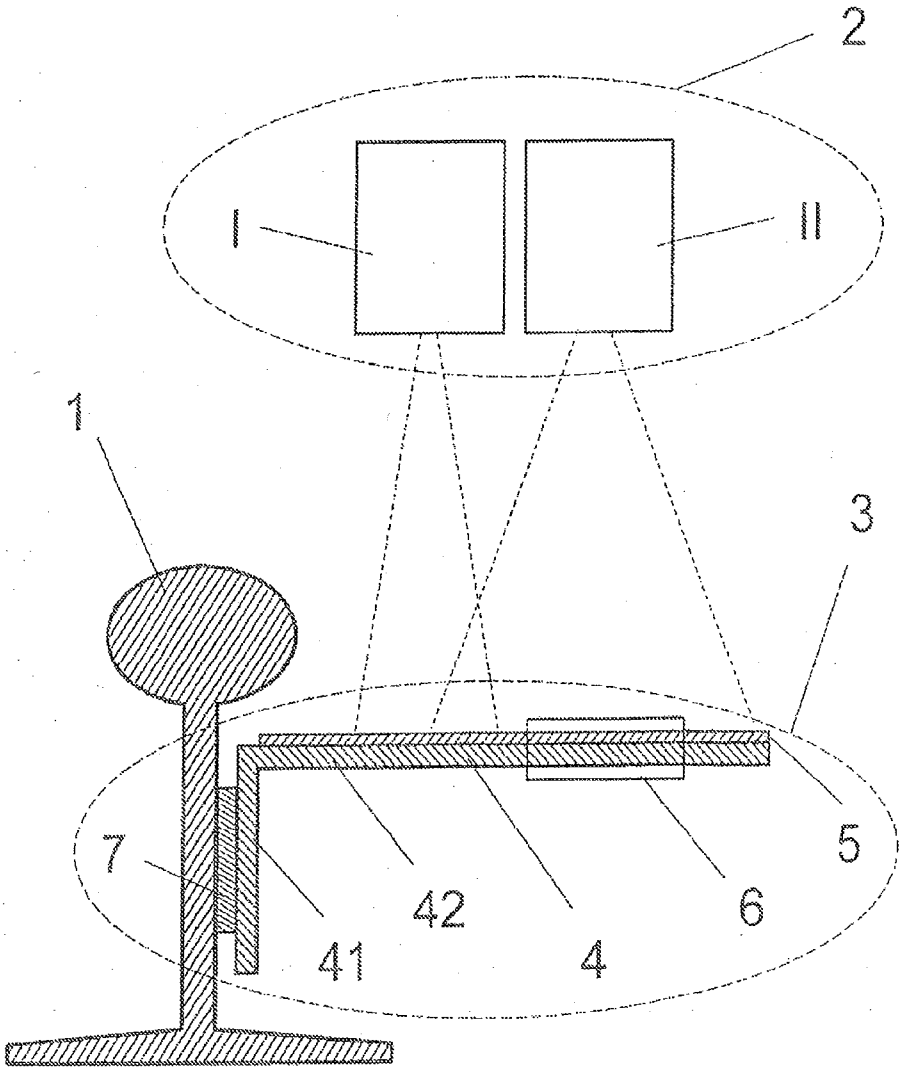


Fig. 1

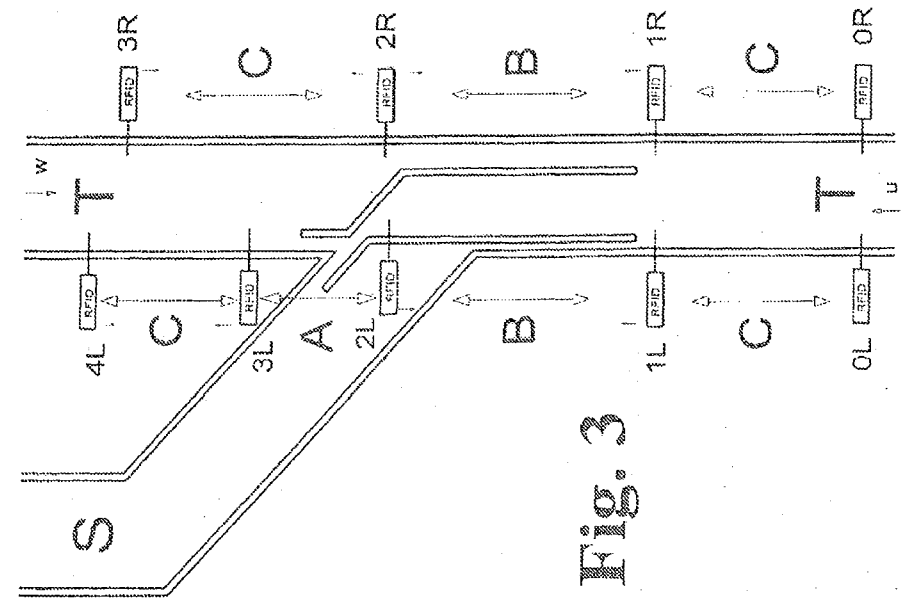

3R
2R
1R
0R
C
B
C
T
T
W
U
RFID
4L
3L
2L
1L
0L
C
A
B
C
S

Fig. 3

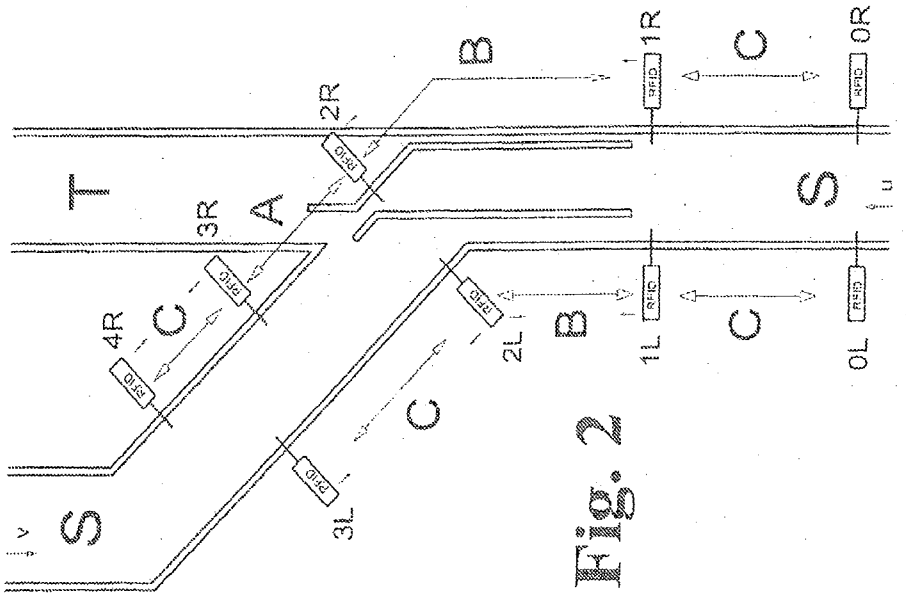

B
1R
0R
C
2R
T
3R
A
S
U
4R
C
2L
B
1L
C
0L
C
3L
S
V

Fig. 2

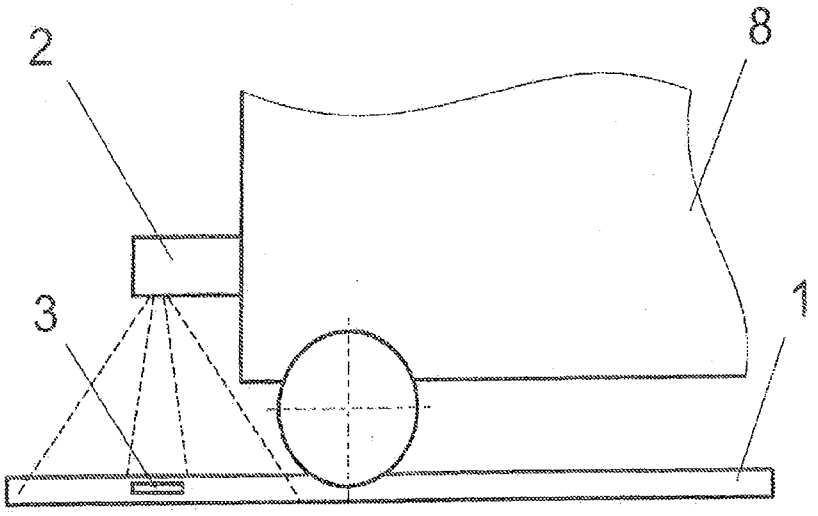


Fig. 4

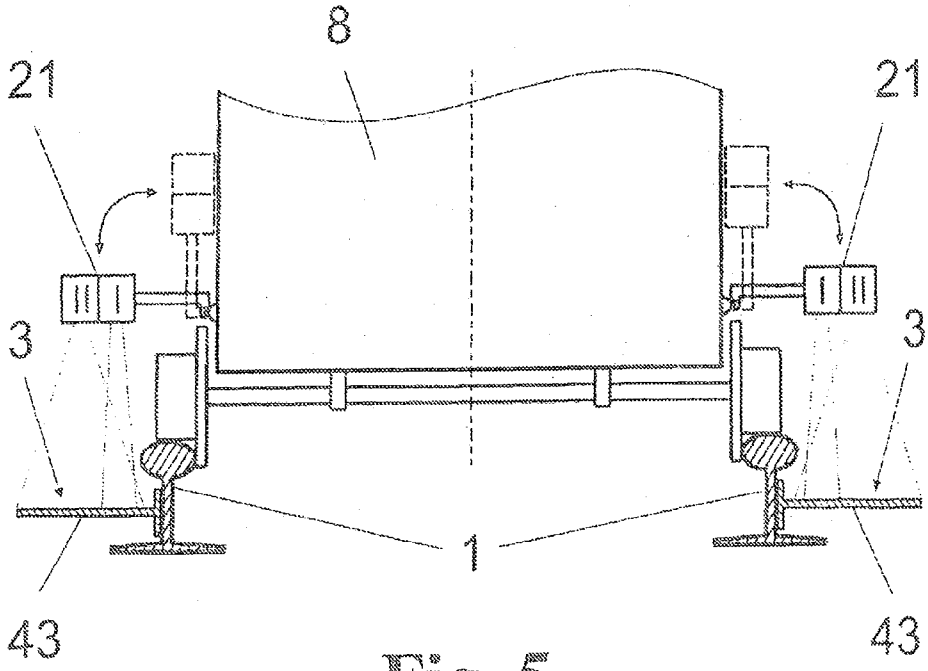


Fig. 5

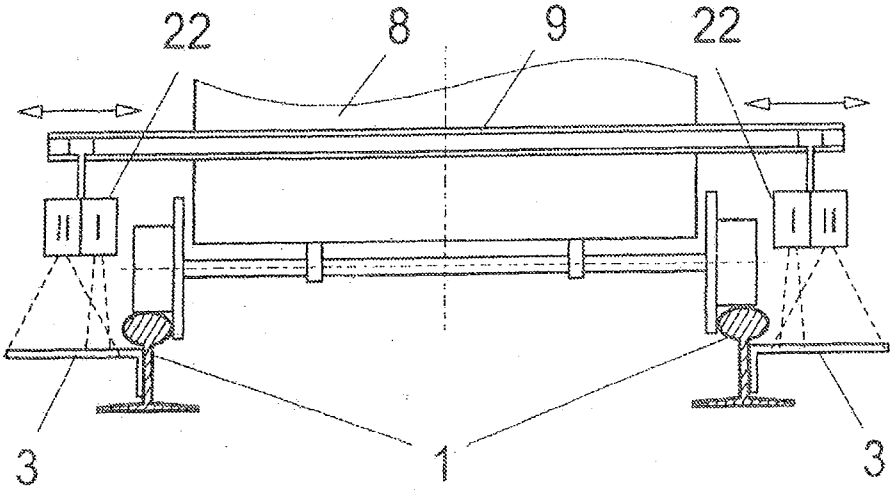


Fig. 6

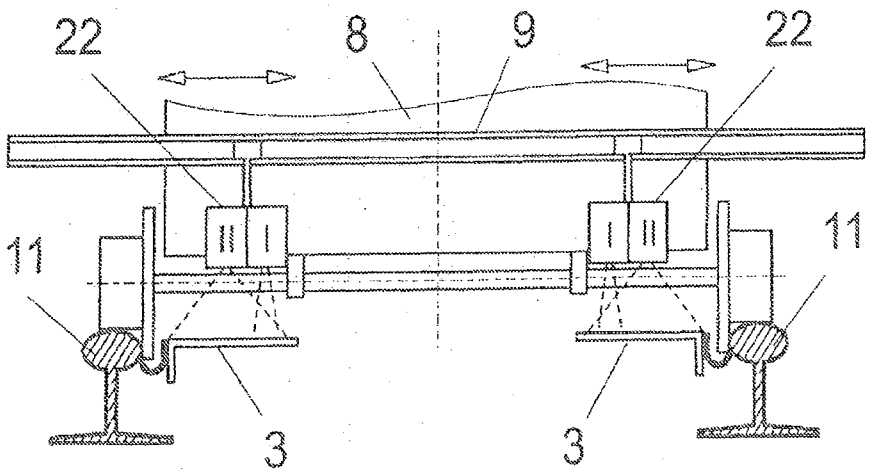


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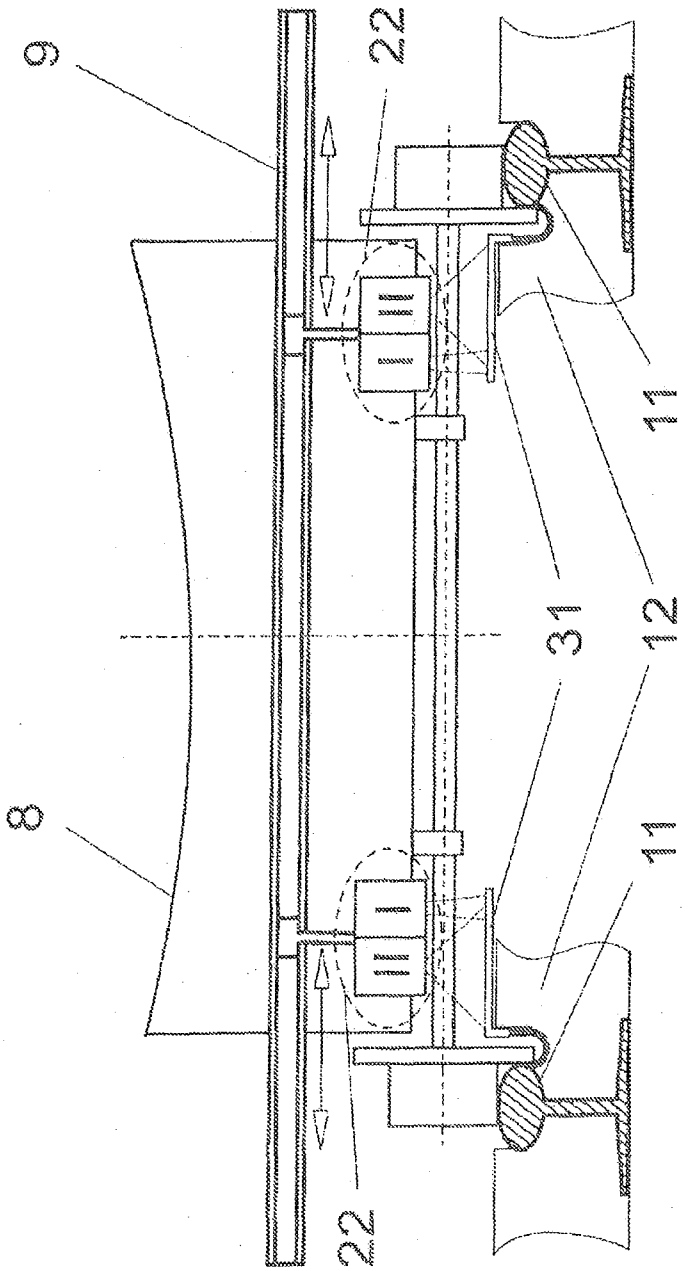


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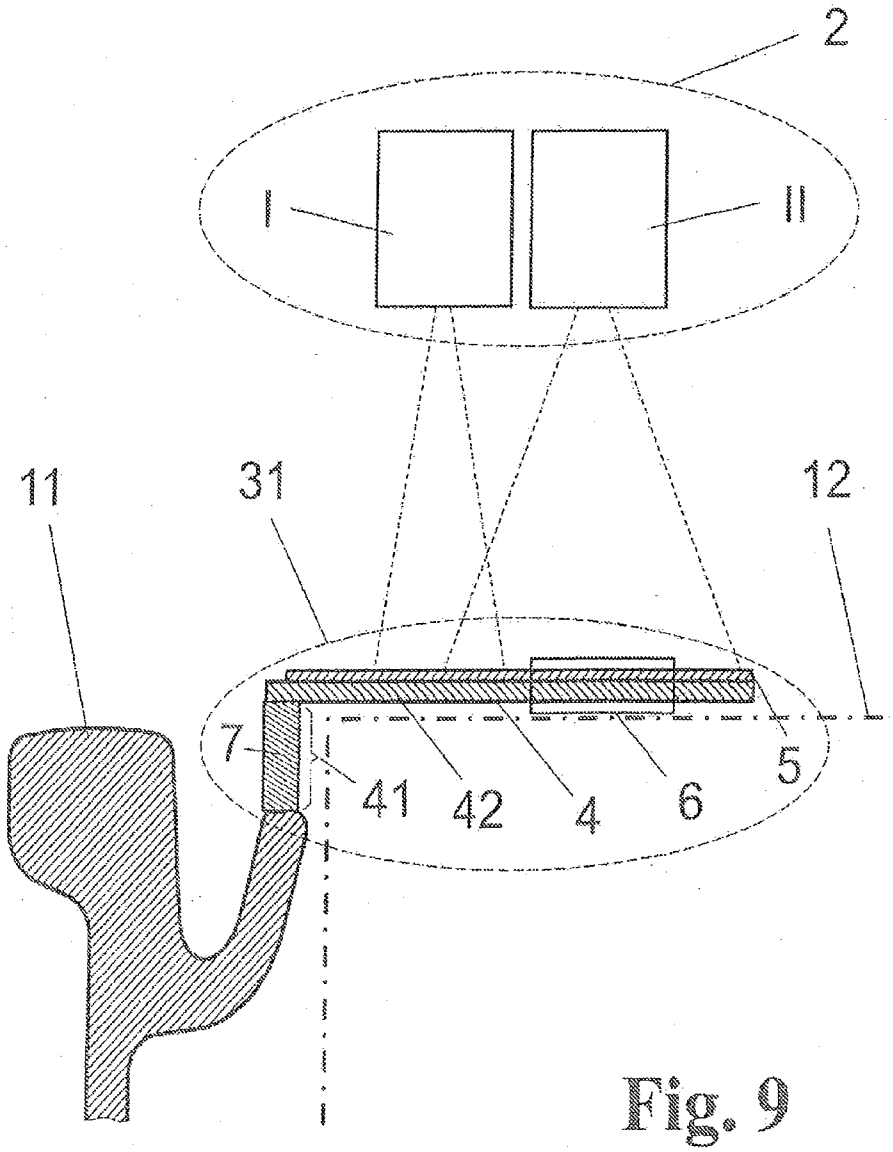


Fig. 9

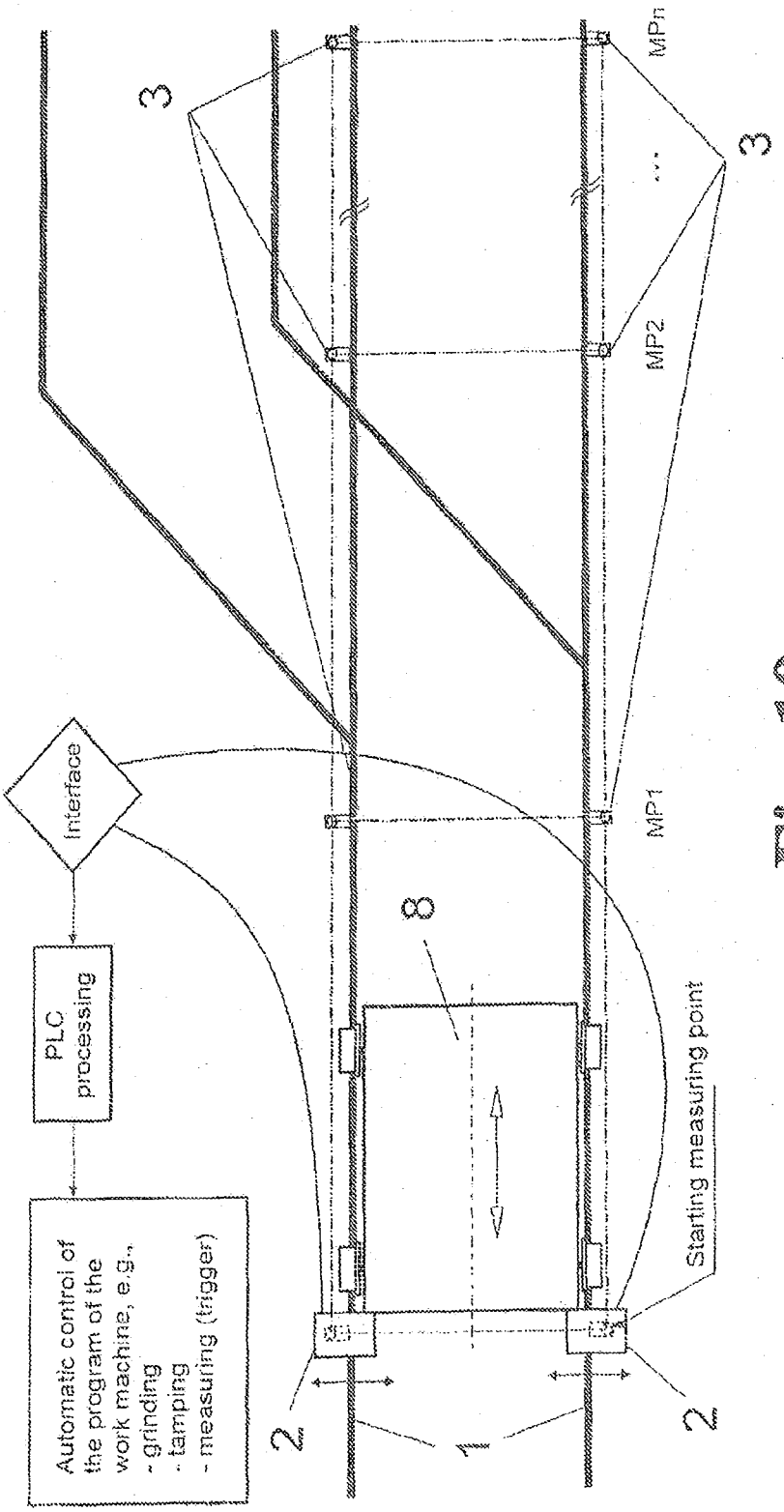

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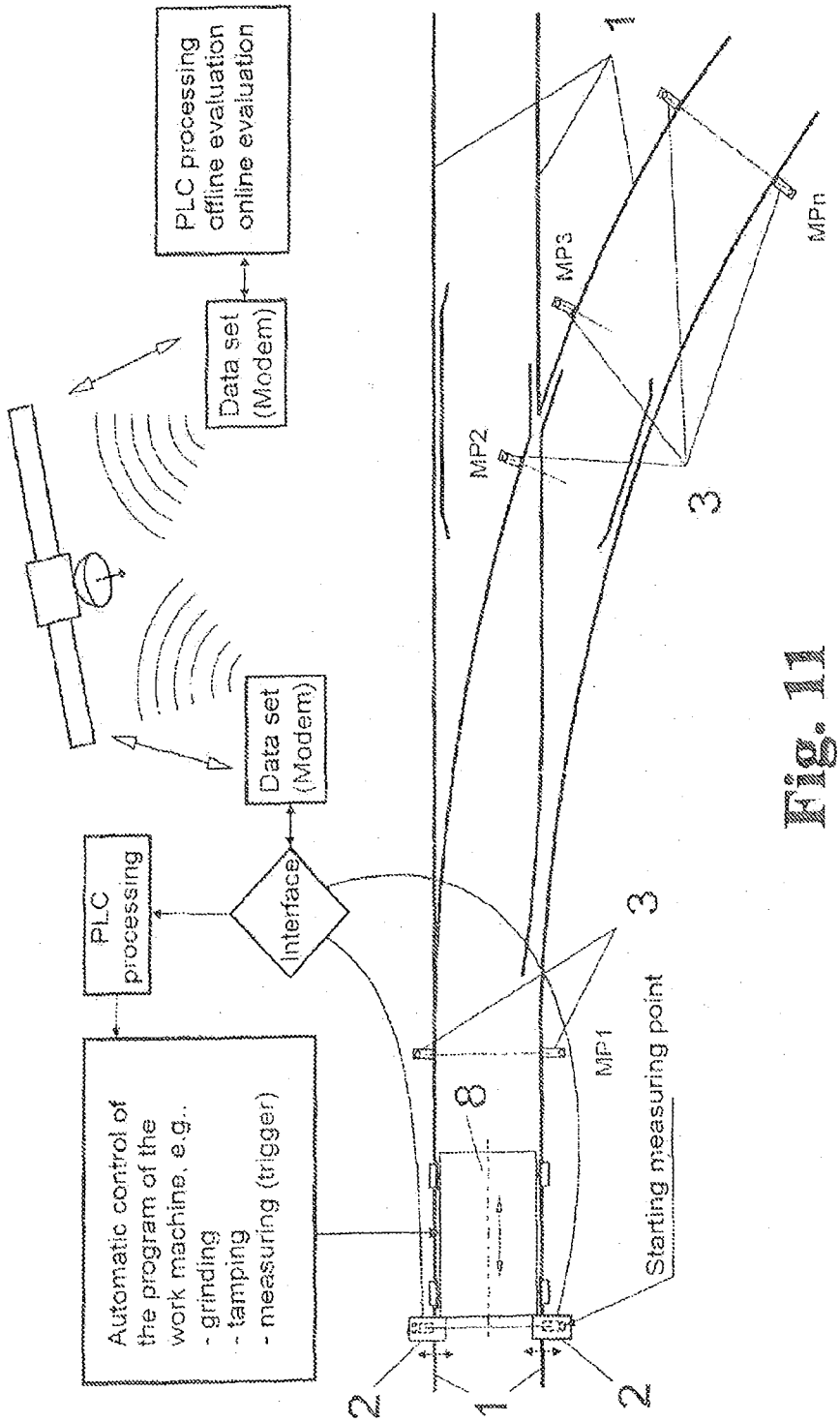

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