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Auxiliary port cleaner for boiler wall sensing port.

A cleaner (10) for a boiler wall port (36) used by various instruments, including light or sound wave receiving or emitting devices (44) in which the device is mounted to a wallbox (38) surrounding the port and extending from the boiler wall. The wallbox terminates in a mounting flange (42) spaced from the boiler and to which the device is attached. The device includes a wave guide (46) terminating in a flange (48) attached to the wallbox mounting flange.

The cleaner includes a weldment (26) attached to the wallbox mounting flange and an actuator (20) mounted to the weldment. The actuator is coupled to a cutting sleeve (12) disposed within the wallbox and moveable into and out of the boiler wall port. The cutting sleeve is coupled to the actuator by a pair of connecting rods (14) passing through the wallbox mounting flange to insure precise alignment of the cutting sleeve.

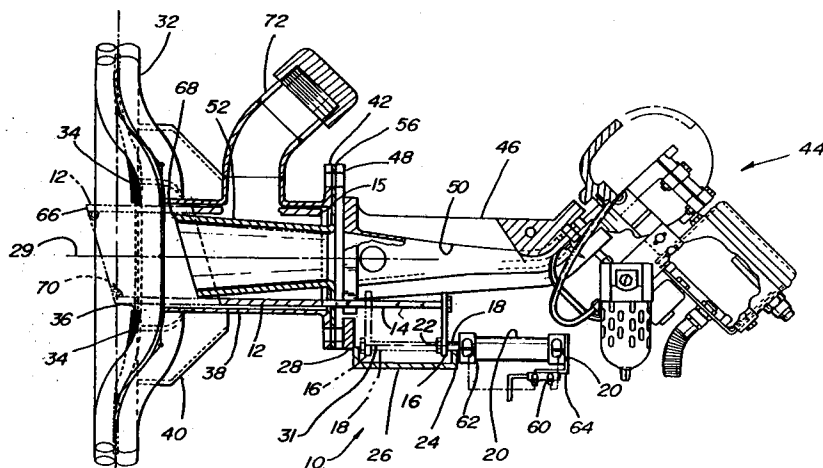


Fig-2

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EUROPEAN SEARCH
REPORT

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
A	US-A-4 759 299 (KENNEDY) * column 2, line 16 - column 4, line 11 * * figures ** - - -	1	F 23 J 3/00 F 23 M 11/04
A	EP-A-0 192 382 (LT-PRODUKTER SKUTSKAR AB) * page 2, line 13 - page 4, line 33 * * figures 1,2 ** - - -	1	
A	US-A-3 742 916 (WESSBERG) - - - - -		
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			F 23 J F 23 M F 23 L
Place of search	Date of completion of search	Examiner	
The Hague	31 January 92	LEITNER J.	
CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document T: theory or principle underlying the invention		E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons &: member of the same patent family, corresponding document	