

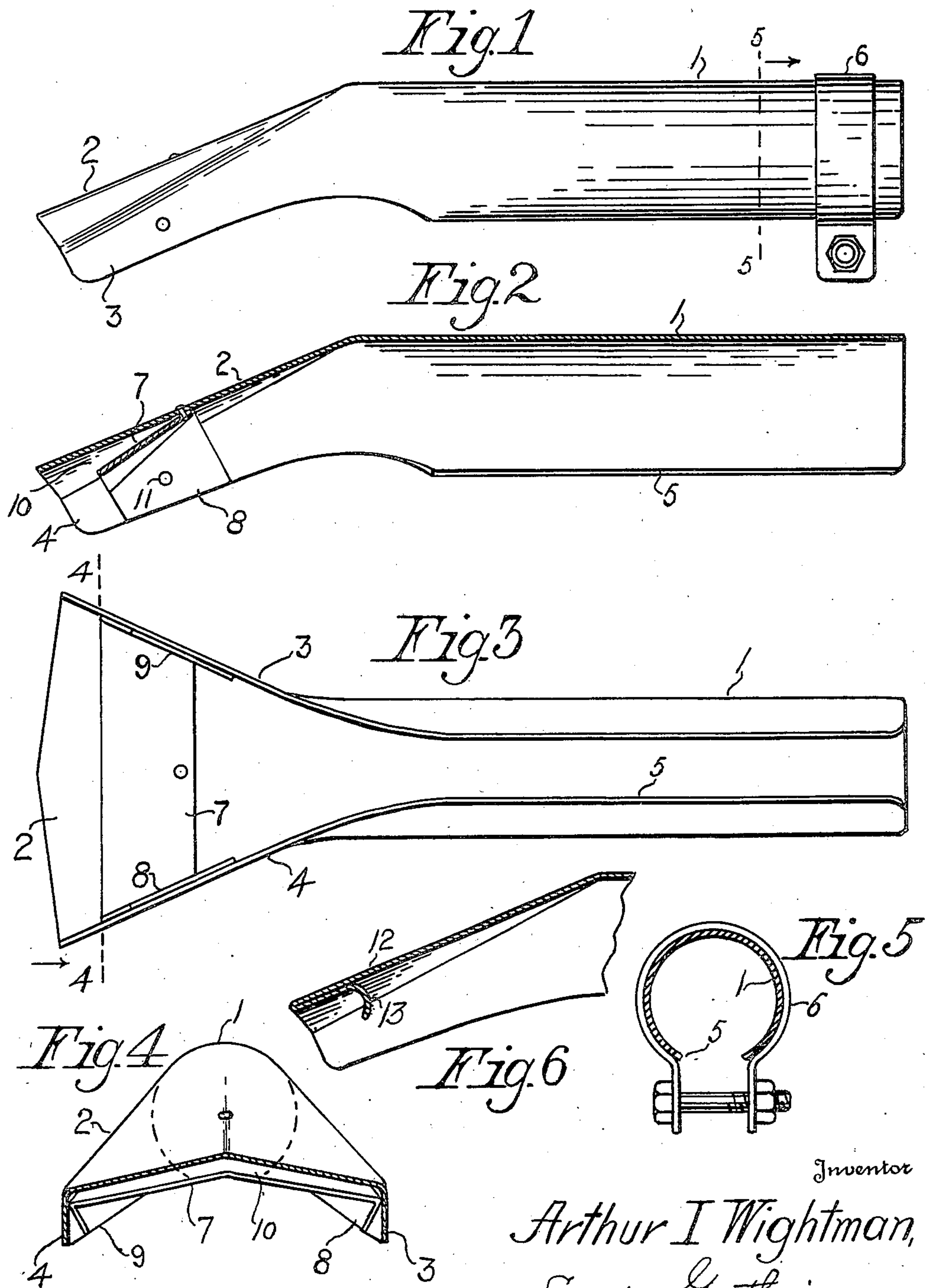
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EXHAUST DEFLECTOR

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EXHAUST DEFLECTOR

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This invention relates to exhaust deflectors constructed to be attached to the exhaust pipes of steam or gasoline motors, and has for its object the improvement of such deflectors in the following particular condition of their operations. Ordinarily, when an exhaust deflector of this character is placed upon the end of the exhaust pipe of an automobile, the condensation creeps up around the top of the deflector, resulting in corrosion. The chemical nature of the exhaust is almost always liable to cause the plating or finish of the deflector to become discolored, removed as a whole or in spots and the deflector to be rendered unsightly, or tarnished, or partially destroyed and its external appearance made undesirable. This invention has for its object the prevention of such corrosion in operation, by means of a baffle plate which is secured to the spreading end of the deflector, usually by spot welding at the sides. The baffle plate takes on the drip of the exhaust and the corrosion occurs at the edge of the baffle plate instead of at the edge of the deflector itself.

In the accompanying drawing the arrangement of the baffle plate in the deflector is illustrated, showing one form and arrangement of the parts associated.

Fig. 1 of the drawing is a side view showing all parts assembled.

Fig. 2 is a sectional view lengthwise of the deflector with this invention applied thereto.

Fig. 3 is a bottom plan view.

Fig. 4 is a front end view partly in section on the broken line 4—4 of Fig. 3 of the spreading discharge end of the deflector showing the spaced position of the baffle plate.

Fig. 5 is a sectional view on the broken line 5—5 of Fig. 1.

Fig. 6 is a longitudinal sectional view of the spreading discharge end of the deflector showing a modified baffle plate construction.

Throughout the drawing and description the same number is used to refer to the same part.

As usually made the deflector has a hollow cylindrical body portion 1, with a downwardly bent or turned spreading or divergent discharge end 2, having the downwardly extending sides 3 and 4. The body 1 has the lengthwise opening 5 which permits the body to be secured upon an exhaust pipe by means of some device equivalent to the clamp 6 shown in Fig. 5. The number and structure of the bolt clamps 6 are not parts of the invention and may be of different form.

The baffle or drip plate 7 is shown as having its rear end in contact with the under surface of the spreading end 2, and the baffle plate is usually made with the downwardly extending sides 8 and 9 which are arranged against the sides of the spreading end as shown. As illustrated in Fig. 4, a space 10 remains between the edge of the baffle plate and the inside of the spreading discharge end of the deflector. The baffle plate may be secured to the spreading end 2 by spot welds 11, which do not injure the appearance of the deflector.

It is thought to be apparent that the baffle plate may be formed integrally with the spreading end of the deflector. In the sectional view Fig. 6 the spreading end 12 of the deflector has a portion at the edge 13 turned down and under, the turned down edge constituting the baffle plate as illustrated.

In operation the gases and fluid vapors of the exhaust pass over the edge of the baffle plate instead of in contact with the edge of the spread end of the deflector, and the injurious corroding substances are found to act upon the baffle plate almost entirely, thereby protecting the deflector edges and surfaces.

Having now described this invention and its purpose, I claim:

1. An exhaust deflector, comprising a body portion constructed to be attached to an exhaust pipe, the said body having a spreading discharge end, and the said end having attached transversely to its under surface a baffle plate extending downwardly adjacent to the edge of the said discharge end of the deflector, the edge of the baffle plate being spaced from the edge of the said end of the deflector whereby the end edge of the deflector is protected from corroding exhaust gases.

2. An exhaust deflector, comprising a body portion constructed to be attached to an exhaust pipe, the said body having a spreading discharge end, and a baffle plate located within said discharge end and transversely secured in contact with the under surface of said end, said baffle plate being extended downwardly whereby the lower edge of the baffle plate is spaced from and protects the end edge of the deflector from corroding gases.

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