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the riser liquid and prevent piping in ingots. In fact it gives information, the value of which will be evident to everyone engaged in foundry work.

Another thing that engineers and foundrymen should have is the quarterly publication "REACTIONS," sent free of charge to interested parties in the United States, Canada and Mexico. The first quarter of this paper for 1909 has recently been issued and is of exceptional interest. It contains many illustrations of difficult repairs and articles on manganese bronze, welding a 16-inch continuous mill gear, repair of a large cast iron kettle, welding locomotive frames, welding oil cups to connecting rods, repair of a clam shell dredger bucket and many other interesting descriptions. A postal card will bring both.

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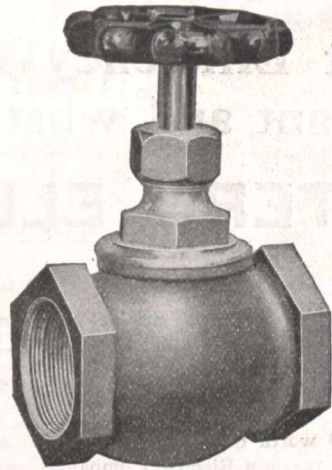
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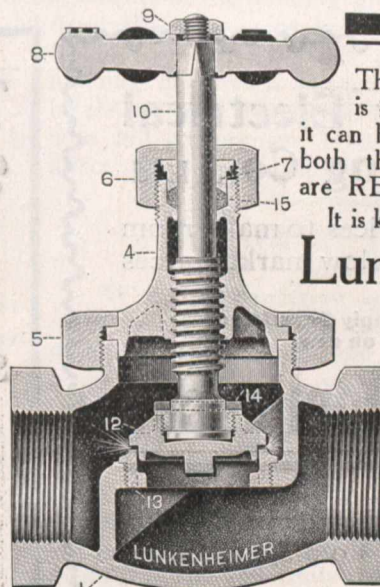
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