Aug. 4, 1936. G. SLAYTER 2,050,023

PIPE JOINT

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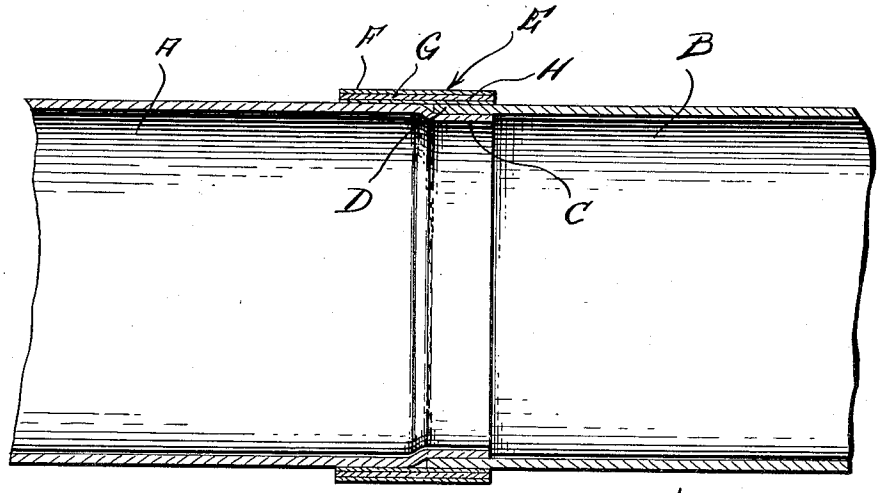


Fig. 1.

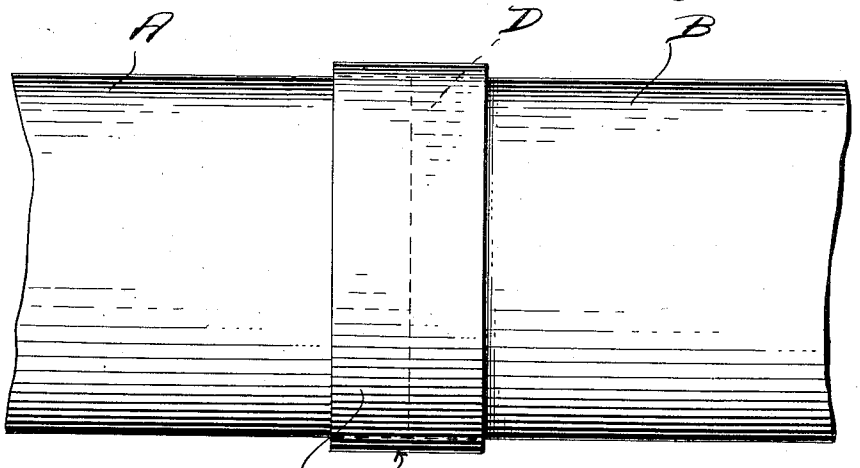


Fig. 2.

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PIPE JOINT

Games Slayter, Detroit, Mich.

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9 Claims. (Cl. 285—114)

This invention relates to pipe joints and refers more particularly to a novel method of forming and sealing the joints of warm air furnace pipes, although the invention in certain of its aspects is not limited to the particular use specified.

In the drawing:

Figure 1 represents a vertical cross sectional view of a pipe joint construction embodying my invention.

Figure 2 is a side elevational view of the pipe construction shown in Figure 1.

In pipe construction, particularly that for warm air furnaces, it has been the general practice to paste a layer of asbestos paper on the pipe. This covering by asbestos paper greatly reduces the efficiency since the heat emission from a tin pipe covered with asbestos paper is largely in excess of the heat emission from a bare metal pipe. It is desirable however, to have the joint covered up and to provide some means of holding the pipe together without the necessity of accurate fitting and soldering.

In my present invention I employ a novel arrangement for securing the two sections of the pipe together while leaving the bare tin or other metal surface pipe exposed.

In the drawing, A and B represent the pipe sections in which the pipe section A has an end portion C telescoped within the end portion D of the pipe B. Over this joint is placed a tape E of tin-foil or other metallic foil of proper strength. The foil is preferably coated on paper or used direct in strips about two inches wide coated with adhesive, the width of the foil being sufficient to go over both ends of the telescopic section. Preferably the foil is of the same exterior surface as the exterior surface of the pipe. At least it is of substantially the same material in appearance so that when the pipe sections are assembled and taped, it gives the appearance of continuously extending pipe. The foil preferably comes in rolls of tape and can be economically applied on the job.

In the structure shown in the drawing the tape E is provided with an outer layer of tin-foil F, an inner layer of paper G, and an adhesive coating H although the invention is not limited to the particular kind of foil or the construction of the layers except as ultimately set forth in the claims.

What I claim as my invention is:

1. The combination in a warm air furnace pipe, of pipe sections formed of metal and having a smooth and relatively bright exterior surface telescopically secured together and a joint covering of adhesive tape having a finish on the tape matching the finish on the pipe.

2. The combination in a warm air furnace pipe, of pipe sections formed of metal and having a smooth and relatively bright exterior surface telescopically secured together and a joint covering of adhesive tape having a metal foil exterior finish.

3. The combination in a warm air furnace pipe, of pipe sections formed of metal and having a smooth and relatively bright exterior surface telescopically secured together and a joint covering of adhesive tape having a metal foil exterior finish, said metal foil matching in surface appearance substantially with the surface appearance of the pipe.

4. The combination in a furnace pipe, of pipe sections formed of relatively bright metal and a member covering the joint between said pipes comprising an adhesive tape secured to and overlapping the joint between the pipes and provided with an exterior tin-foil coating.

5. The combination in a warm air furnace pipe, of pipe sections telescopically secured together, said pipe sections being uncovered and having a plain outer metal surface and a joint covering comprising a metal foil extending over said joint and also forming a plain metal exterior surface.

6. The combination in a conduit for conducting heated fluid, of pipe sections having relatively bright outer surfaces, and means for securing said pipe sections together including coverings for the joints between said pipe sections, said pipe sections being uncovered except by said joint coverings and said joint coverings having bright outer surfaces.

7. The combination in a conduit for conducting a heated fluid, of metal pipe sections, and means for securing said pipe sections together including coverings for the joints between said pipe sections, said pipe sections being uncovered except by said joint coverings and said joint coverings having metallic outer surfaces.

8. The combination in a warm air furnace pipe, of uncovered pipe sections having relatively bright outer surfaces, said pipe sections having their adjacent ends in relatively poor engagement with each other, and coverings for the joints between said sections operable to securely hold said sections together, said coverings having relatively bright outer surfaces.

9. The combination in a warm air furnace pipe, of uncovered metal pipe sections having their adjacent ends detachably and relatively poorly engaging each other, and coverings for the joints between said pipe sections, said coverings being operable to securely hold said sections together and said coverings having outer surfaces provided with a finish substantially matching the finish on the outer surfaces of the pipe sections.

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