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ADJUSTABLE WALL SLEEVE

Filed March 12, 1965

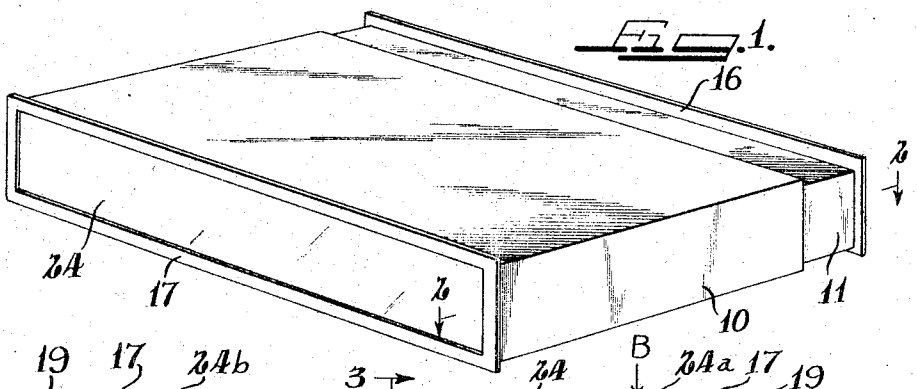


FIG. 1.

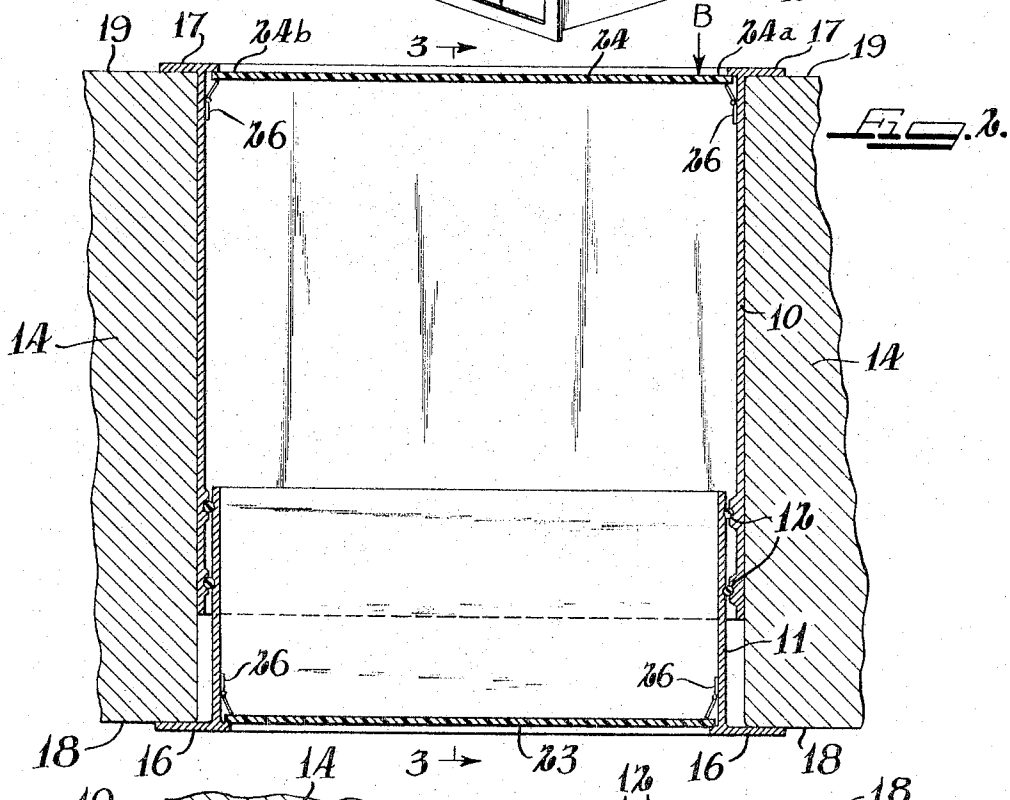


FIG. 2.

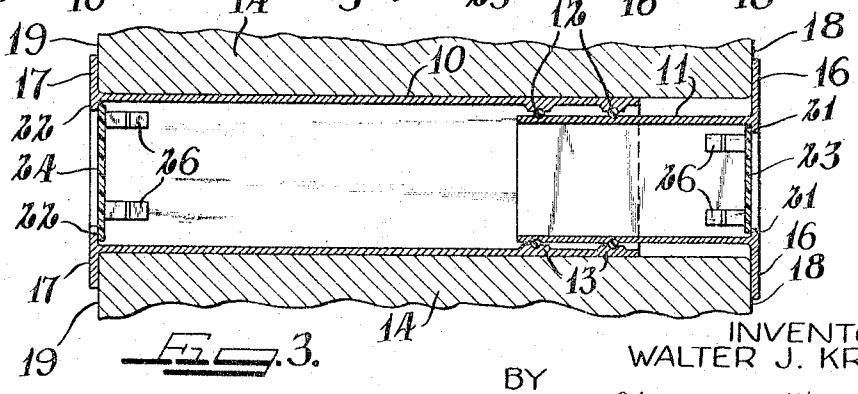


FIG. 3.

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ADJUSTABLE WALL SLEEVE

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This invention relates to a novel adjustable light transmitting wall sleeve.

It is the principal object of this invention to provide a decorative wall sleeve having standard dimensions which can be adjusted to fit within walls of various thicknesses.

It is a further object of this invention to provide in an adjustable light transmitting wall sleeve a means for minimizing the transfer of heat therethrough.

It is yet another object of this invention to provide an adjustable wall sleeve having light transmitting panels therein to provide a light transmitting means for the sleeve and providing means whereby the panels may be easily removed for cleaning or the like.

More particularly this invention relates to and has the object of providing a telescopic adjustable light transmitting wall sleeve comprised of inner and outer members relatively movable to each other having means for insulating the members from each other and having panels at each end thereof for the transmission of light therethrough.

Other objects and advantages of this invention will become apparent from the following detailed description taken in conjunction with the accompanying drawings in which:

FIGURE 1 shows a perspective view of the wall sleeve of this invention;

FIGURE 2 is a sectional view of the wall sleeve taken along line 2—2 of FIGURE 1; and

FIGURE 3 is a sectional view of the wall sleeve taken along lines 3—3 of FIGURE 2.

While an illustrative embodiment of the invention is shown in the drawings and will be described in detail herein, the invention is susceptible of embodiment in many different forms, and it should be understood that the present disclosure is to be considered as an exemplification of the principles of the invention and is not intended to limit the invention to the embodiment illustrated. The scope of the invention will be pointed out in the appended claims.

Referring to the drawings, it can be seen that one embodiment of the wall sleeve of this invention can take a generally rectangular form for positioning within a rectangular hole in a wall or the like. Many different shaped sleeves are possible and are contemplated by this invention. The wall sleeve is formed of an outer wall section **10** and an inner wall section **11**, the inner section being smaller than said outer section and movable therein to form a telescopic type rectangular wall sleeve. A plurality of air sealing gaskets **12** are disposed continuously about the gap between the relatively movable inner and outer wall sections. The sealing gaskets are retained between the wall sections by a plurality of grooves **13** about the inner surface of the outer wall section. The sealing gaskets provide means to facilitate the relative movement of the wall sections, completely insulate the sections from each other, and minimize the loss from the transfer of heat or cold from opposite sides of a wall **14**. The wall sections are provided with flanges **16** and **17** disposed about the outer edges thereof and extending transversely away from the wall sections for seating the adjustable wall sleeve against the outer surfaces **18** and **19** respectively of the wall **14**.

The wall sections are provided with flanges **21** and **22** disposed about the outer edges thereof and extending transversely to the center of the wall sleeve. Light transmitting panels **23** and **24** are fitted within each of the wall sections and abut the inner surfaces of the flanges **21** and **22** respectively. The light transmitting panels are yieldably retained within the wall sections by spring clips **26** attached to the inner surfaces of each of the wall sections to urge the light transmitting panels against the flanges **21** and **22**. In the event that the inner surfaces of the light transmitting panels need to be cleaned or polished, one end of the panel as at **24***a* can be forced inwardly in the direction of arrow B against the spring clip **26**. The spring clip will yield a sufficient amount so that the other end of the panel as at **24***b* can be moved out of its abutting engagement behind the flange **21**.

The wall sections of the telescoping wall sleeve of this invention are preferably fabricated of sheet metal, extruded aluminum, plastic or the like to provide an easily constructed, light-weight, easily positioned, and decorative wall sleeve. The light transmitting panels are preferably made of translucent etched or glazed material to permit the passage of light therethrough, but to provide for sufficient privacy.

In the construction business, walls of various thicknesses are encountered even on the same job. A plurality of the standard wall sleeves of this invention can be kept in inventory and be made readily available for positioning within a wall of any desired thickness. The sleeve can be placed and retained in a desired position while a wall of a desired thickness is built around the sleeve. In addition, the inner sleeve **11** can be removed from engagement within the outer sleeve **10** whereupon the outer sleeve can be inserted within the hole cut in an appropriate wall. The outer sleeve is inserted into the wall until the flange **17** seats against the outer surface **19** of the wall **14**. The inner wall section can then be inserted into the outer wall section until the flange **16** seats against the other wall surface **18**. The light transmitting panels **23** and **24** can be positioned within their respective wall sections either prior to or after the positioning of the wall sleeve in the wall, by the use of the spring clips **26**.

A simply constructed, easily assembled, light-weight and decorative adjustable wall sleeve for positioning within walls of various thicknesses has been provided. Additionally, the wall sleeve provides for the transmission of light therethrough, minimizes the loss from the transfer of heat and cold therethrough, and provides for easy cleaning of the light transmitting panels provided therein.

I claim:

1. An adjustable wall sleeve comprising: an outer wall section; an inner wall section movable in said outer wall section; a sealing gasket disposed between said inner and outer wall sections providing an air seal and a heat conduction insulation between said sections maintaining said sections out of contact with each other at all times as well as guiding said sections for relative movement out of contact with each other; and light transmitting panels disposed within each of said wall sections adjament the outer peripheries thereof to provide a light transmitting means for said sleeve.

2. An adjustable wall sleeve as in claim **1** including means for retaining said gasket between said wall sections.

3. A telescopic adjustable wall sleeve for positioning within an opening in walls of various thicknesses and having inner and outer wall sections relatively movable to each other; a sealing gasket disposed between said inner and outer wall sections providing an air seal and a heat conduction insulation between said sections maintaining said sections out of contact with each other at all times

as well as guiding said sections for relative movement out of contact with each other; and light transmitting panels disposed at each end of said wall sleeve to provide a light transmitting means for said sleeve.

4. An adjustable wall sleeve for positioning within an opening in walls of various thickness comprising: an outer wall section and an inner wall section movable in said outer wall section, each of said wall sections being provided with a flange about the outer edge thereof extending transversely away from said wall section for seating said adjustable wall sleeve against the outer surfaces of a wall, and each of said wall sections being provided with a second flange about the outer edge thereof extending transversely toward the center of said opening; a translucent panel disposed within each of said wall sections abutting the inner surface of said second flanges; spring means disposed about the inner surface of each of said wall sections adjacent said second flanges for yieldably retaining said panels against the inner surfaces of said flanges; a heat insulating sealing gasket disposed between said inner and outer wall sections maintaining said wall sections out of contact with each other at all times; and a groove disposed about the inner surface of said wall section for retaining siad gasket therein.

5. An adjustable sleeve for positioning within an opening in a wall or the like, comprising: an outer wall section; an inner wall section movable in said outer wall section; flange means disposed about the outer edge of said wall sections extending transversely towards the center of said opening; a light transmitting closure panel disposed within each of said wall sections abutting the inner surface of said flange; and a plurality of spring clips for yieldably retaining said light transmitting panels against said inwardly extending flange means, said spring clips permitting removal of said closure panels out of abutment against said flange means by forcing said panel inwardly against said spring clips and moving said panel away from the inner surface of said flange means past said spring clips.

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