

J. H. YOUNG.
PROTECTED METAL ARTICLE.
APPLICATION FILED FEB. 27, 1920.

1,421,338.

Patented June 27, 1922.

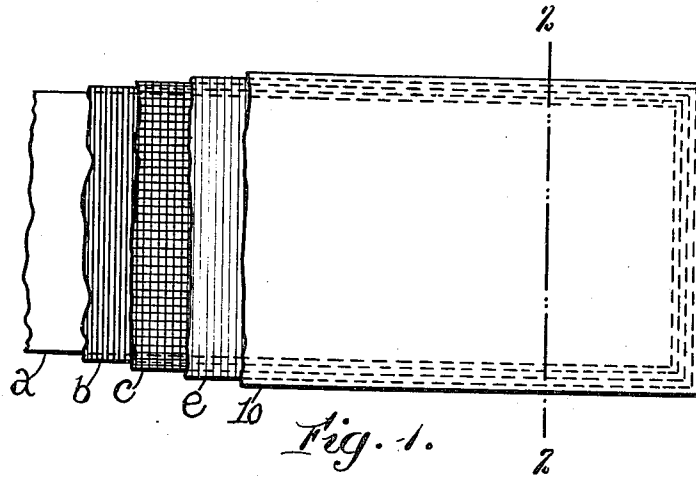


Fig. 1.

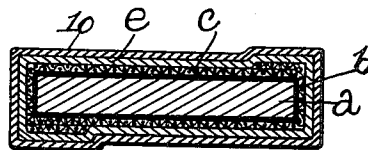


Fig. 2.

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UNITED STATES PATENT OFFICE.

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PROTECTED METAL ARTICLE.

1,421,338.

Specification of Letters Patent. Patented June 27, 1922.

Application filed February 27, 1920. Serial No. 361,726.

To all whom it may concern:

Be it known that I, JAMES HOWARD YOUNG, a citizen of the United States, residing in Pittsburgh, county of Allegheny, and State of Pennsylvania, have invented an Improvement in Protected Metal Articles, of which the following description, in connection with the accompanying drawings, is a specification, like characters on the drawings representing like parts.

The present invention relates to a protected metal article and is an improvement upon the protected metal article shown and described in United States Patent No. 1,277,755 dated September 3, 1918.

The protected metal article described in the patent referred to is provided with an outer coating of a hydrocarbonaceous weather-resisting material, which is substantially non-adhesive at ordinary temperatures but is rendered adhesive by heat.

Such protected metal articles and particularly protected metal sheets are highly efficient if applied to building or other structures with their outside or sealing coating intact.

Owing to the nature of the sealing coating, the latter is rendered adhesive by heat, and delays and expense have been caused by the shipment of the protected metal sheet too soon after being manufactured and also when shipped in stacks or piles during warm weather or into a region having a relatively high temperature.

The present invention has for its object to overcome the objections above recited, and to this end, protected metal sheets of the character described are provided with an exterior layer or film, which is soluble in water, resists sticking, and which enables the protected metal sheets to be shipped substantially as soon as made, and further enables the protected sheets to be readily removed from contact with one another in perfect condition on the job.

A suitable material for forming the exterior anti-stick coating or film is such as is described in United States Patent No. 1,327,933 granted to me January 13, 1920.

Fig. 1 is a plan view of a portion of a protected metal sheet embodying this invention, and

Fig. 2, a cross section on the line 2—2, Fig. 1.

Referring to the drawing, the metal sheet

a provided with the primary coating of adhesive material *b*, preferably asphalt, of relatively high melting point, and having applied to it the layer *c* of fibrous material, such as asbestos paper or felt saturated with a relatively low-melting point asphalt, and which is encased in the sealing coating or layer *e* of hydrocarbonaceous material, which is substantially non-adhesive at ordinary temperatures but is rendered adhesive by heat, is and may be such as shown and described in United States Patent No. 1,277,755 dated September 3, 1918.

The protected metal sheet thus described is provided with a coating 10 of anti-stick material, such as described in U. S. Patent No. 1,327,933, and composed of a cellulose base soluble in water and a soapy solution, which is present in sufficient quantity to reduce the surface tension of the cellulose base an adequate amount.

The coating 10 may be applied to the coating or layer *e* of the protected metal sheet, so as to envelop the latter as represented in the drawings, or it may be applied only to the opposite surfaces of the coating *e*, and when thus applied, the coating *e* which is rendered adhesive by heat, is protected against the action of heat, and the completed protected metal sheet is capable of being stored or of being shipped immediately after being made, without danger of contacting protected sheets adhering to one another, thereby avoiding delays in shipping, cost of storing, and defects in the individual sheets due to sticking when separated from one another on the job.

The anti-stick coating 10 is soluble in water and therefore can be uniformly applied to the protected metal sheet and be removed on the job by washing the sheets with water, or it can be removed by natural washing with rain water after being erected in place.

Claims:

1. A protected metal article comprising a metal article provided with a primary coating of fluid or plastic adhesive material, layers of fibrous material affixed to the surfaces of said metal article by said protective coating, a coating of hydrocarbonaceous weather-resisting flexible material of substantial thickness and substantially non-adhesive at ordinary temperatures but rendered adhesive by heat, which is affixed to said fibrous material, and a

flexible coating of anti-stick material soluble in water and capable of spreading evenly over the hydrocarbonaceous coating and of forming thereon when dried a continuous
5 homogeneous layer covering the same.

2. A protected metal article comprising a metal article provided with a coating of hydrocarbonaceous weather-resisting flexible material of substantial thickness and sub-

stantially non-adhesive at ordinary temper- 10
atures but rendered adhesive by heat, and a coating of anti-stick material soluble in water and composed of a cellulose base and a soapy material covering said hydrocar-
bonaceous coating. 15

In testimony whereof, I have signed my name to this specification.

JAMES HOWARD YOUNG.