

C. A. JAYNES.  
INSULATING JOINT.  
APPLICATION FILED MAY 8, 1908.

928,763.

Patented July 20, 1909.

Fig. 1.

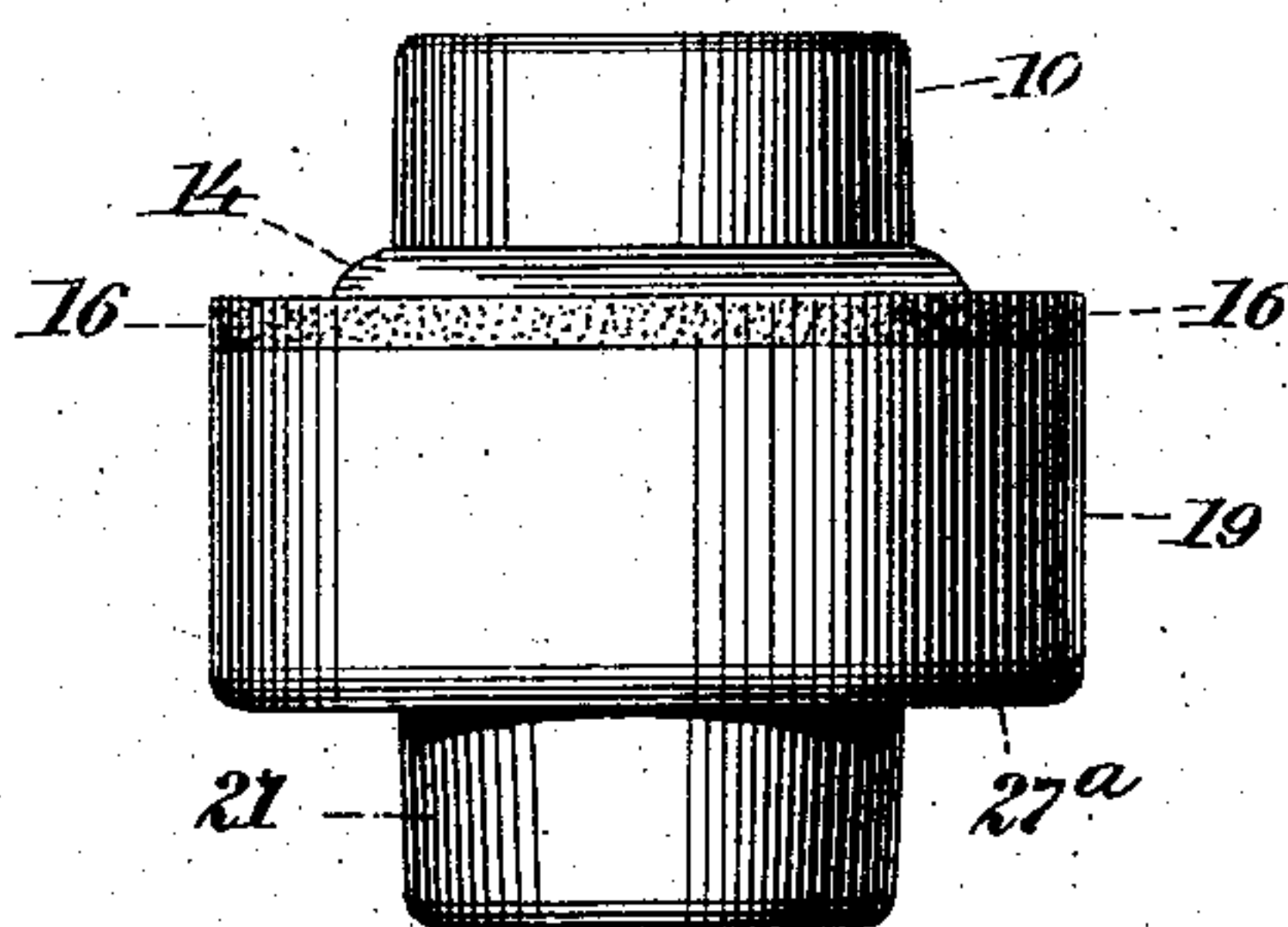
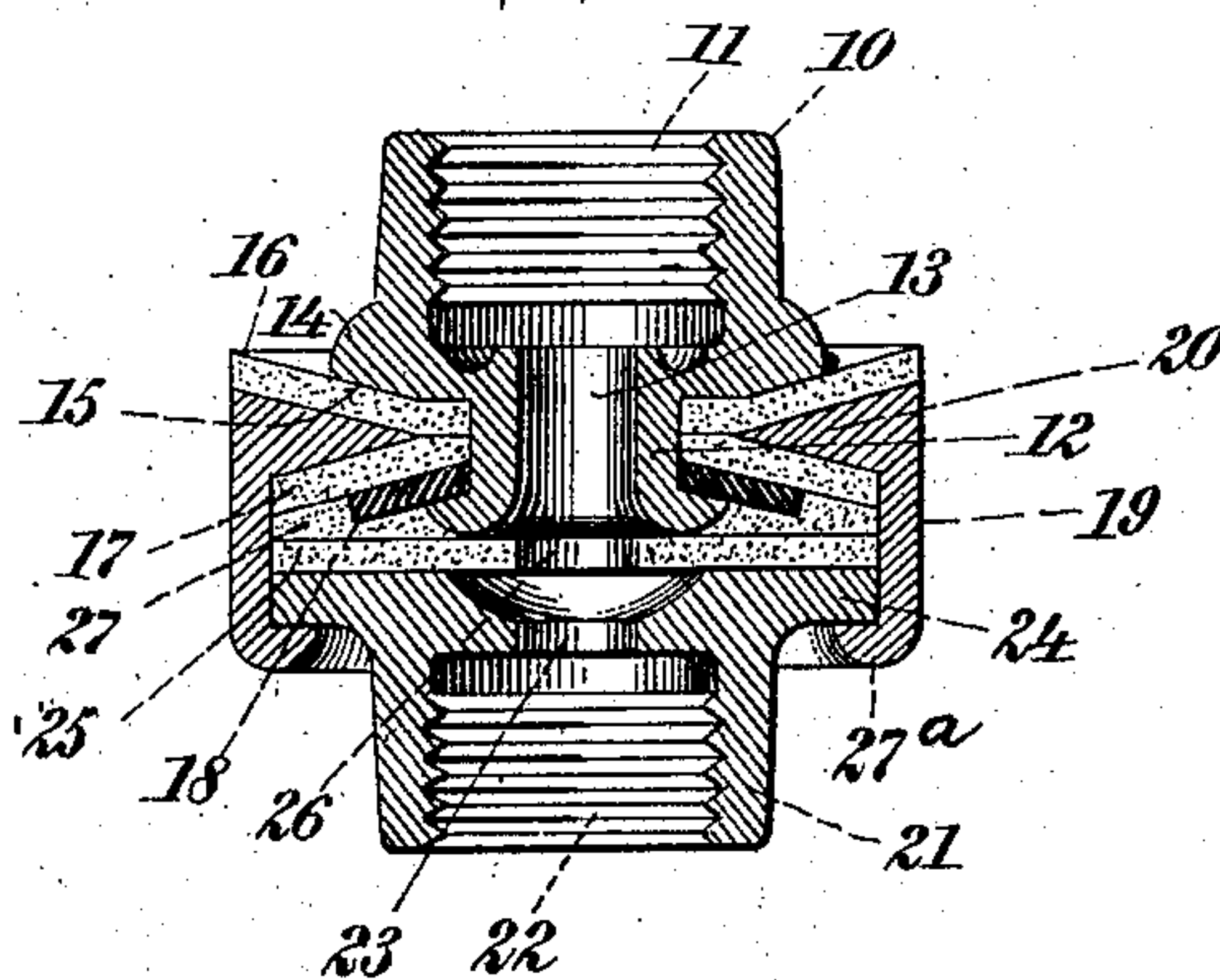


Fig. 2.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

CHARLES A. JAYNES, OF EAST ORANGE, NEW JERSEY.

## INSULATING-JOINT.

No. 928,763.

Specification of Letters Patent.

Patented July 20, 1909.

Application filed May 8, 1908. Serial No. 431,561.

*To all whom it may concern:*

Be it known that I, CHARLES A. JAYNES, a citizen of the United States, residing at East Orange, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Insulating-Joints, of which the following is a full, clear, and exact specification.

My invention relates to means for insulating sections of pipe from each other, and the same has for its object more particularly to provide a simple, efficient and reliable joint which may be applied to gas pipes in order to insulate the fixtures attached thereto from said pipes.

Further, said invention has for its object to provide a joint for the purposes specified, in which its several parts are secured together as a firm and unitary structure.

To the attainment of the aforesaid objects and ends my invention consists in the novel details of construction, and in the combination, connection and arrangement of parts hereinafter more fully described, and then pointed out in the claims.

In the accompanying drawings forming part of this specification, wherein like numerals of reference indicate like parts, Figure 1 is a side view showing one form of joint constructed according to and embodying my said invention, and Fig. 2 is a central vertical section of the same.

In said drawings 10 designates a socket provided upon its inner surface with screw threads 11 and at its lower end said socket is provided with a reduced portion 12 forming a support having a central opening 13 extending therethrough and connecting with the interior of said socket. At the junction of the base of said socket with the upper end of the reduced portion 12 is provided a laterally projecting flange 14 having its underside partly beveled at 15.

16 and 17 denote annular sections of insulating material, such as mica, which are disposed upon the reduced end portion 12 of the socket and clamped in position thereon adjacent to their inner edges by means of a metal washer 18 which is held in position by the inner end of the reduced portion 12 which is turned over or riveted against the lower surface of said metal washer 18.

19 denotes a sleeve provided at its upper end with an inwardly extending tapering flange 20 having its upper and lower surfaces inclined inwardly in order to produce a sharp

inner edge which is adapted for securement to the socket 11 intermediate the outer edges of the insulating sections 16 and 17; the insulating section 17 being of smaller diameter than the section 16 in order that the same may fit within the sleeve 19.

21 denotes a second socket member which is provided upon its inner surface with screw threads 22 and above said screw threads with a centrally disposed opening 23.

24 denotes a laterally projecting flange arranged at the inner or upper end of the socket member 21, which flange is substantially co-extensive in diameter with the interior diameter of the sleeve 19.

25 denotes a disk of insulating material provided with a centrally disposed opening 26 in line with the opening 23 in the socket member 21 and the opening 13 in the reduced portion 12 of the socket 10, and above said insulating disk 25 is disposed a second disk or layer of insulating material 27 which together serve to insulate the socket member 21 and its flange 24 from the socket member 10 and its reduced end portion 12. The socket member 21 is secured firmly within the sleeve 19 by a rim 27<sup>a</sup> at the lower end of said sleeve 19 which is bent inwardly and bears against the outer or lower surface of the flange 24, and thereby holds the two sections firmly and permanently united.

It will be noted that in actual use the joint may be applied, for example, at the socket portion 10 to a gas pipe, and at the socket portion 21 to the upper end of a combined gas and electric fixture, and by the arrangement and construction of the parts shown and described said fixture will be absolutely insulated from the pipes for conducting the gas to said fixture. Further, it is to be noted that when the joint is used in connection with an electric fixture merely the reduced end 12 of the socket 10 may be made solid, but when the joint is to be used in connection with a combined gas and electric fixture the said reduced end 12 must be provided with an opening as shown, for the passage of the gas.

Having thus described my invention, what I claim and desire to secure by Letters Patent is:

1. A joint of the character described, comprising a socket member, insulating members separated at their outer edges and riveted together at their central portions and to said socket member, a sleeve engaging said socket



member intermediate the separated edges of said insulating members, and a socket member secured to said sleeve and insulated from the socket member first-named, substantially as specified.

2. A joint of the character described comprising a socket member, a support centrally arranged thereon, insulating means secured to said support with their outer edges separated, a sleeve secured to said socket member and engaging the insulating means thereon intermediate the separated edges thereof, and a socket member secured to said sleeve and insulated from the socket member first-named, substantially as specified.

3. A joint of the character described comprising a socket member, a reduced end integral therewith and extending therefrom, a plurality of insulating members secured to said reduced end, a sleeve secured at one end to said socket member intermediate the insulating members thereon, and a socket member secured to the other end of said sleeve, substantially as specified.

4. A joint of the character described, comprising a socket member, a reduced end integral therewith and extending therefrom, a plurality of insulating members secured on said reduced end, a sleeve secured at one end to said socket member intermediate the insulating members thereon, a socket member secured to the other end of said sleeve, and insulating means interposed between said socket members, substantially as specified.

5. A joint of the character described comprising a socket member, a tubular section extending therefrom, a plurality of insulating sections surrounding said tubular section, a sleeve secured to said socket member intermediate the insulating sections thereon, a second socket member secured within said sleeve, and an insulating section interposed between said socket members, substantially as specified.

6. A joint of the character described comprising a socket member, a tubular section extending therefrom, insulating washers disposed upon said tubular section, a sleeve having a flange at one end adapted for securement to said socket member intermediate said insulating washers, a second socket member disposed within the other end of said sleeve, and insulating material arranged in said sleeve intermediate said tubular section and the socket member last-named, substantially as specified.

7. A joint of the character described comprising a socket member having a reduced end, annular insulating sections disposed upon said reduced end, means for securing the same thereto at their inner edges, a sleeve having a flange at one end adapted for securement to said sleeve intermediate the insulating sections thereon, a second socket member secured in the other end of

said sleeve, and insulating material disposed in said sleeve intermediate the inner ends of said socket members, substantially as specified.

8. A joint of the character described comprising a socket member having a reduced end provided with an opening, annular insulating sections disposed upon said reduced end, means for securing the same thereto at their inner edges, a sleeve having a flange at one end adapted for securement to said sleeve intermediate the insulating sections thereon, a second socket member, secured in the other end of said sleeve, having an opening therein, and insulating material disposed in said sleeve intermediate the inner ends of said socket members, substantially as specified.

9. A joint of the character described comprising a socket member having a reduced inner end provided with an opening therein, a plurality of annular insulating sections disposed upon said reduced end, a dished metal washer disposed upon said insulating sections, means for securing said insulating sections and washer upon said reduced end, a sleeve having an inwardly-extending flange at one end adapted for securement to said socket member intermediate the insulating sections thereon, a second socket member having an outwardly projecting flange at one end, means for securing said flanged end to said sleeve, and insulating sections disposed within said sleeve intermediate the flange of said second socket member and the reduced end of said first-named socket, substantially as specified.

10. A joint of the character described comprising a socket member having an inclined shoulder at its base, and a reduced inner end provided with an opening therein, a plurality of annular insulating sections and a metal washer disposed upon said reduced end, means for clamping said insulating sections and washer together adjacent to their inner edges and against said inclined shoulder, a sleeve having an inwardly extending tapering flange at one end adapted for securement to said socket member intermediate the free edges of said insulating sections, and an inwardly extending rim at its other end, a second socket member having a laterally-projecting flange at one end disposed within said sleeve, and insulating sections disposed within said sleeve intermediate said flange and the reduced end of said socket member first named and its connected parts, substantially as specified.

11. A joint of the character described comprising a socket member having an inclined shoulder at its base and a reduced inner end extending from said base provided with an opening therein, a plurality of annular insulating sections disposed upon said reduced end, and a dished metal washer ar-



5 ranged upon said reduced end and contact-  
ing with said annular insulating sections, an  
outwardly extending rim at the inner end of  
said reduced end serving to hold said dished  
washer and insulating sections clamped to-  
10 gether and against the underside of the in-  
clined shoulder on said base, a sleeve having  
an inwardly extending tapering flange at  
one end adapted for securement to said  
socket member intermediate the outer edges  
15 of said insulating sections, and an inwardly  
extending rim at its other end, a second  
socket member having a central aperture  
therein and a laterally projecting flange at  
one end disposed within said sleeve and bear-  
ing against the inwardly projecting rim at

its outer end, and an insulating section dis-  
posed within said sleeve intermediate the  
inner surface of the flange on said second  
named socket member and the reduced end 20  
of said first named socket member, and pro-  
vided with a centrally located aperture in  
line with the apertures in said reduced end  
and said second socket member, substantially  
as specified. 25

Signed at the city of New York, in the  
county and State of New York, this sixth  
day of May, nineteen hundred and eight.

CHARLES A. JAYNES.

Witnesses:

CONRAD A. DIETERICH,  
A. R. ANGUS.