

H. N. DE LANOY.
INK STICK.
APPLICATION FILED MAY 7, 1910.

994,724.

Patented June 13, 1911.

Fig. 1.

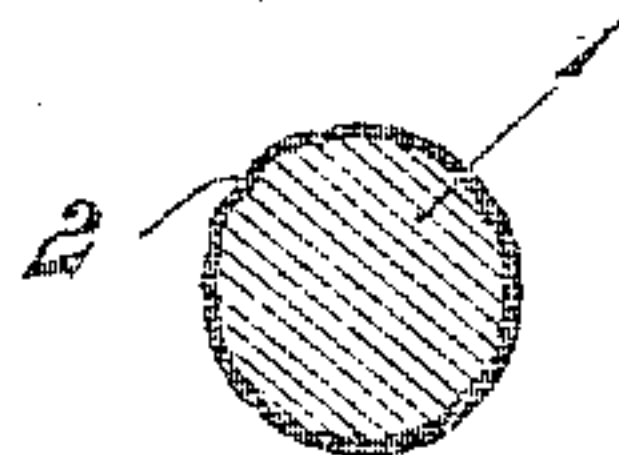


Fig. 2.

Witnesses

Harry King

E. E. Hines

Inventor

Harry N. DeLanoy

By *Victor J. Evans*

Attorney

UNITED STATES PATENT OFFICE.

HARRY N. DE LANOY, OF NELSONVILLE, NEW YORK.

INK-STICK.

994,724.

Specification of Letters Patent. Patented June 13, 1911.

Application filed May 7, 1910. Serial No. 559,992.

To all whom it may concern:

Be it known that I, HARRY N. DE LANOY, a citizen of the United States, residing at Nelsonville, in the county of Putnam and State of New York, have invented new and useful Improvements in Ink-Sticks, of which the following is a specification.

This invention relates to an ink stick for use in supplying the reservoirs of fountain pens, stylographic pens and ink pencils, and to a method of making the same.

The object of the invention is to provide a stick or carrier composed of a body having a coating of a water soluble ink, which stick is of a convenient form to be inserted within the barrel of the pen, so that its coating may be taken up by a supply of water contained therewith in the barrel, thus furnishing a freely flowing ink for use which will not clog or injure the pen.

A further object of the invention is to provide an ink stick of this character, a number of which may be conveniently carried upon the person of the user of a fountain pen, thus enabling a fresh supply of ink to be obtained at any time when the ink in the pen is exhausted.

A further object of the invention is to provide a simple and effective method of manufacturing ink sticks for this purpose.

In the accompanying drawing, illustrating the invention:—Figure 1 is a side elevation of a preferred form of ink stick. Fig. 2 is a cross section of the same.

In carrying my invention into practice, I provide an ink stick comprising a stem or carrier 1 provided with an external coating 2 of an ink soluble in water. The stem or carrier 1 is preferably of the general form of a match splint and made like the same of wood, but paper, pasteboard or any other suitable porous material may be employed. The ink used may be any of the water soluble anilin colors.

In the method of manufacturing the sticks, a number of the splints are saturated with water, preferably by successively soaking the same in hot and cold water, whereby saturation is more thoroughly and quickly effected. The splints are then removed from the water and tumbled in a suitable apparatus until their surfaces are of proper dryness, which is known when no water shows upon the surface, which looks dry and barely feels damp. They are then tumbled about thirty seconds in a closed receptacle containing

some dry, finely powdered anilin color of a quantity of about one ounce to every seven hundred splints. A thin film or coating of anilin will thus be caused to adhere to the surface of each stick, after which the sticks are allowed to dry until the surface coating becomes hard.

The purpose of thoroughly soaking the splints is to cause their surfaces to dry slower and more evenly, so that a coating of substantially the same thickness will be easily applied to each splint. The splint is used as a support for the anilin to facilitate its handling by the user, on account of the small quantity of dry anilin required to form enough ink for use at one time in the pen, and also to provide a large surface for the action of the water to immediately dissolve the anilin when the stick is inserted in the pen.

Ink sticks made in accordance with my invention embody numerous advantages. They may be conveniently carried in the pocket and cleanly handled, cost no more than ordinary ink, do not injure the pen and render the use of a filler unnecessary. A supply can be carried in the pocket under any and all conditions and the pen filled anywhere without soiling the fingers, and by simply inserting a stick and filling the barrel with water.

If desired, the amount and thickness of the ink, as well as the depth of the color may be varied by breaking a stick into pieces and inserting a fraction of any desired size to suit the purpose. Also the coating may terminate short of one end of the support, leaving an uncoated portion so that the stick may be handled without soiling the fingers when handled with wet hands or the coating may be formed wholly upon one end of the support similar to the head of a match for this purpose, as desired.

Having thus described my invention, I claim:—

1. An ink cartridge of the character described comprising a porous splint having a surface film or coating of a coloring substance soluble in water, said film being formed from a dry powder having its particles united and caused to adhere by moisture to the surface of the splint.

2. The herein-described method of making ink cartridges of the character described, which consists in soaking a porous body in water, expressing any excess moisture until

the surface of the body shows no perceptible moisture and is barely damp, and then coating the dampened surface of said body with a finely powdered anilin color, whereby particles of the color are caused to cohere and form a film upon said surface.

3. The herein-described method of making ink cartridges of the character described, which consists in soaking a mass of porous splints in water, tumbling the splints to displace the excess water therefrom and until the surfaces thereof are left barely moist,

and then tumbling the moist splints in contact with a finely powdered anilin color whereby particles of the color coming in contact with each stick are caused to cohere and form a film upon the stick.

In testimony whereof I affix my signature in presence of two witnesses.

HARRY N. DE LANOY.

Witnesses:

THOS. A. COE,
GRANT WRIGHT.