

UNITED STATES PATENT OFFICE.

HARRY G. GHEGAN, OF CAMDEN, NEW JERSEY, ASSIGNOR OF ONE-THIRD TO SAMUEL R. DICKINSON, OF CAMDEN, NEW JERSEY, AND ONE-THIRD TO MILLARD M. KATZ, OF PHILADELPHIA, PENNSYLVANIA.

SOLVENT FOR PRINTERS' INKS.

1,406,183.

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No Drawing.

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To all whom it may concern:

Be it known that I, HARRY G. GHEGAN, a citizen of the United States, residing at Camden, in the county of Camden and State of New Jersey, have invented certain new and useful Improvements in Solvents for Printers' Inks, of which the following is a specification.

The object of this invention is to provide an improved solvent for printers' inks, and particularly adapted to remove the ink from the usual rollers of printing machines, and other devices.

In the practise of cleansing the ink-rolls of a printing-press, hand-rolls, and the like, it is necessary frequently to remove old ink from the gelatine of which the rolls are formed, in order to preserve their original quality as to smoothness of surface and elasticity throughout their mass.

However, even with the best of care, it has quite generally been found next to impossible to continue to alternately use and cleanse inking-rolls normally carrying what is understood as printers' ink, without the latter operation gradually but surely injuriously affecting the surface of the rolls, and in fact the body portion thereof as well, to a greater or less extent inwardly from the surface.

Therefore, it is the object of this invention to provide an improved solvent for the printers' inks of commerce, which will fail utterly to alter the surface or body of a gelatine ink-roll from the condition in which it is originally sent out from the factory to the user.

In addition to the foregoing, it is also the object to make such a solvent of as inexpensive ingredients as possible, quick in their drying when mixed in the proper quantities, and in every way to do or accomplish the desired result with the greatest possible efficiency.

The invention therefore comprises more specifically the combination of the usual

denatured alcohol of commerce, mixed with ordinary coal-oil, or kerosene, both being preferably as near as possible pure and free from foreign matter of every sort.

These ingredients are preferably united in the proportion of fifty per-cent of the denatured alcohol and fifty per-cent of the kerosene, and thoroughly united, at a safe temperature and in any suitable vessel, after which the mixture is applied to the ink-rolls by a suitable fibrous or textile body, such as a soft piece of cloth or the like.

Or, where the ink has been allowed to dry on the rolls until it has become a more or less homogeneous shell, the rolls can be immersed for a time in the improved solvent mixture, until said ink shell has become entirely dissolved and removed from the surface of the rolls. Similarly, this improved solvent is equally well adapted to remove printers' ink from type forms, zinc, etchings, electrotypes, half-tones, presses and lithographers' stones, in fact from any article upon which such ink may have been deposited.

Having thus described my invention, what I claim and desire to protect by Letters Patent of the United States is:

1. The method of dissolving printers' inks, which consists in subjecting the same to the action of a solution consisting of kerosene and alcohol.

2. The method of dissolving printers' inks, which consists in applying a solution consisting of kerosene and alcohol to an article carrying the ink.

3. The method of cleansing printers' inks from an article, which consists in applying a solution of kerosene and alcohol to the article to dissolve the ink, and then removing the ink-containing solution from the article.

In testimony whereof I have affixed my signature.

HARRY G. GHEGAN.