UNITED STATES PATENT OFFICE.

RUDOLF PETERS, OF HEIDELBERG, GERMANY.

PROCESS FOR UTILIZING WASTE ENDS OF CARBONS FOR ARC-LAMPS.

No. 845,256.

Specification of Letters Patent.

Patented Feb. 26, 1907.

Application filed January 16, 1905. Serial No. 241,392.

To all whom it may concern:

Be it known that I, Rudolf Peters, a subject of the German Emperor, and a resident of Heidelberg, Germany, have invented certain new and useful Processes for Utilizing the Waste Ends of Carbons for Arc-Lamps, of which the following is a specification.

The present invention relates to a process for the manufacture of more or less coarse commercial colors, putties, tempering-powders, and the like from the waste ends of arclamp carbons.

The process consists in that the carbon pieces are strongly dried in a suitable oven, (the best by heating them until calcination is obtained, which is at a temperature of about 1400° centigrade,) then softened by very slow cooling, and then treated in suitable grinding-mills. The product is then passed through very fine sieves, so as to obtain color-powders resembling lampblack. These colors are then mixed in the well-known manner with linseed-oil, arabic gum, neutral woolgrease, and the like.

The coarser colors obtained by the above-described process are particularly convenient for painting station-halls, bridges, ships, traversers, cranes, locomotives, wagons of any kind, parts of machines, pipings for waso ter distribution, and so on.

The slow cooling is effected in a convenient manner, but in any case without chilling, by means of oil.

I would state that the heating of the car-

bon ends is for the purpose of driving off or 35 neutralizing the injurious binding material which is usually present in greater or less quantities in the carbon ends, and usually a temperature of about 100° centigrade is sufficient for this purpose; but I prefer to subject 40 the carbon ends to such a temperature as will always insure the complete elimination of the binding material, and therefore would heat the ends up to the temperature of about 1400° centigrade, at which point complete 45 calcination is effected.

Having now fully described my said invention, what I claim, and desire to secure by Letters Patent, is—

The herein-described process for utilizing 50 the waste ends of carbons from arc-lamps by producing therefrom a product which is adapted for use in the manufacture of colors, putties, &c., which consists in heating the waste ends in suitable ovens up to a temperature not exceeding 1,400° centigrade, then softening said ends by very slow cooling without immersing in linseed-oil, then grinding said ends, passing the ground material through very fine sieves and then mixing lineseed-oil with the screened material.

In testimony whereof I have hereunto set my hand in presence of two witnesses.

RUDOLF PETERS.

Witnesses:

H. W. HARRIS, Jos. H. LEUTE.

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