

A Description of the Uses of a certain Powder for yielding very smooth and close Metall, and of easier carriage, &c.

THis was lately communicated to the Publisher by a German Physician residing at *Frankfort* on the *Mayne*, in High-Dutch; the English of which is as follows;

1. The Powder, I speak of, maketh the Metall so close and smooth, that it leaves not the least pit in the piece, and that a Gun so cast needs no boaring.

2. One third of the Metall may be spared.

3. Such Guns remain clean and neat a long while. In the Year 1672. July 9. there was cast a Demy-canon; weighing 34 hundreds of weight. This being tryed with a bullet of 34 pounds weight, there was employed the first time 12 pounds of powder, the second time as much, the third time 15 pounds, and the fourth time 24 pounds, strong powder; all which tryals it endured very well. Besides, not long since there was cast a small Petard of only two pounds of this metall, with which I broke in pieces a beam of a Rhine-foot square, the Petard remaining entire and perfect.

When you have occasion to carry these pieces over land, you shall not need so many horses by far as otherwise. And in great Ships and Galleons, that are sometimes mounted with 100 Guns each, you may of the matter of 200 make 300 Guns, performing the same, if not a better, effect. If his Majesty be pleased to command a *Specimen* of this Powder for a good tryal, we are ready to send it. It is not only easie to make, but also of small expence.

Extracts of two Letters of Dr. Swammerdam, concerning some Animals, that having Lungs are yet found to be without the Arterious Vein; together with some other curious particulars.

WE shall give the Reader both these Extracts in the same Language the Letters were written in. The first was written *Jannar. 24, 1673, at Amsterdam, viz;*

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