

A Vindication of the present state of aural surgery / by a member of the New Sydenham Society.

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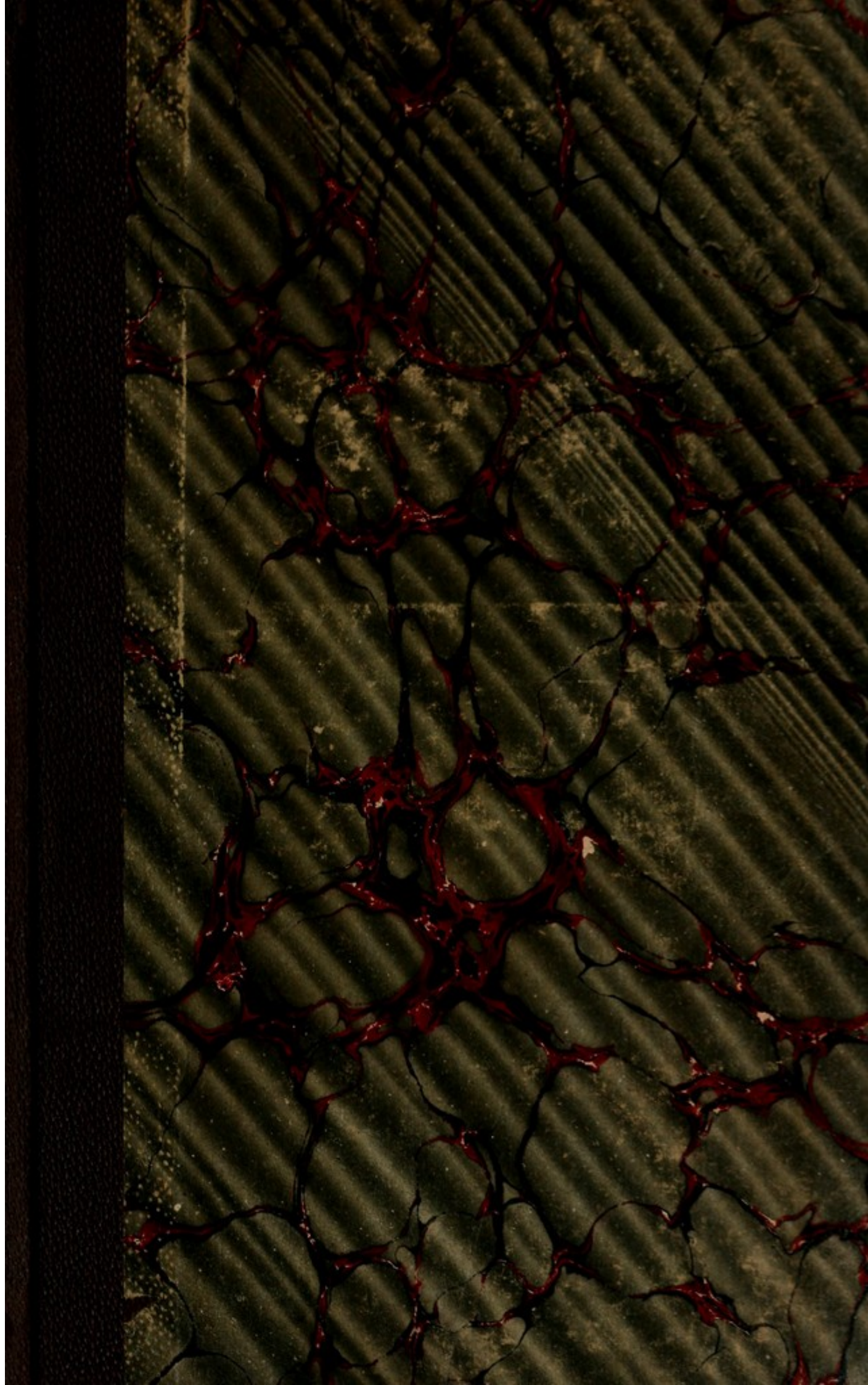
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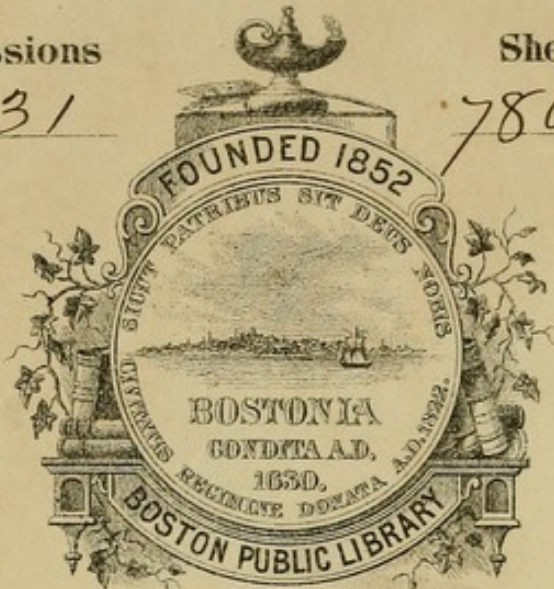
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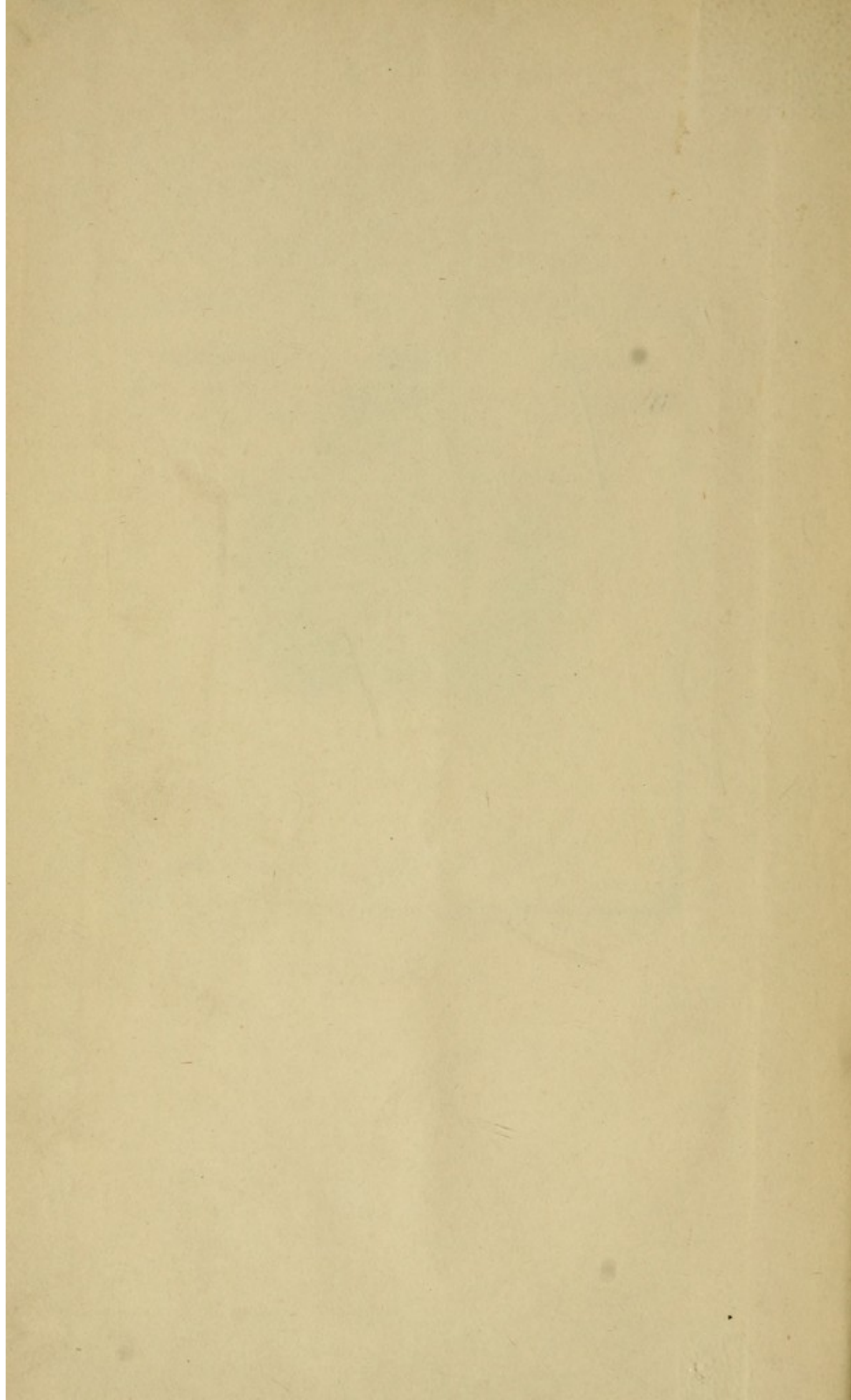


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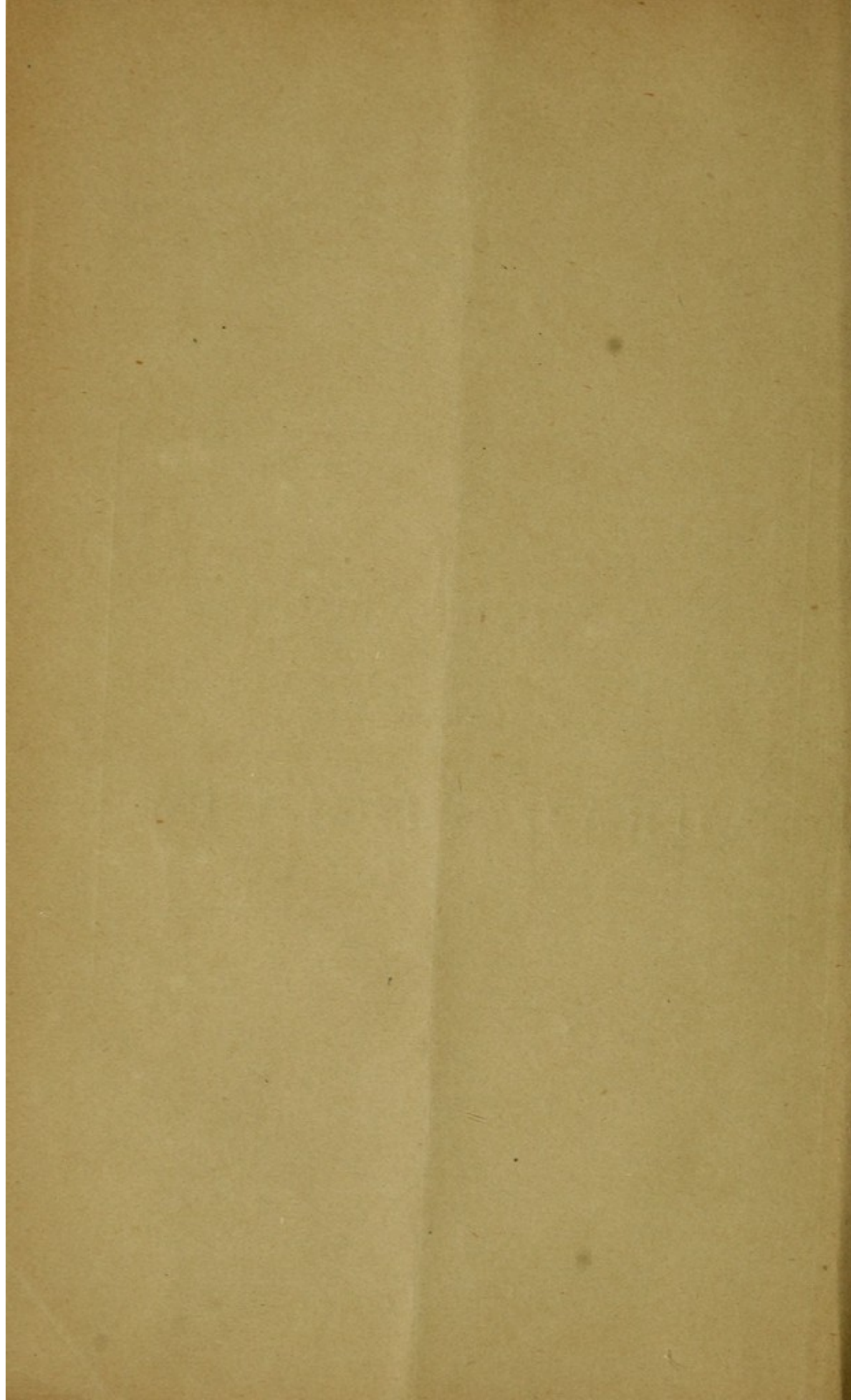
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A VINDICATION
OF THE PRESENT STATE OF
AURAL SURGERY.



(22)

A VINDICATION

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OF THE PRESENT STATE OF

AURAL SURGERY.

BY

A MEMBER OF THE NEW SYDENHAM SOCIETY.

Joseph Gwynne

LONDON :

JOHN CHURCHILL AND SONS, NEW BURLINGTON STREET,

1864.

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OF THE LIBRARY STATE OF

AURAL SURGERY

A MEMBER OF THE NEW SYDEHAM SOCIETY

LONDON :

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INTRODUCTION.

THE sense of hearing is of so high a value to man in the performance of his manifold duties, and to its exercise human life owes so many of its delights, that it appears natural man should devote his best energies towards keeping the organ of hearing in a healthy state, as well as towards restoring it to health, when diseased.

It is, however, somewhat remarkable, that the Medical Profession is only now beginning to devote due attention to the subject of the diseases of the ear.

And if we seek the reason why the Medical Profession did not long ago devote its attention to this branch of Surgery, it will be found in the fact that the field had not been tilled and prepared by scientific labourers. Indeed, it is undeniable, that the diseases of no organ of the human body have until lately received so small a share of studious and careful attention, as those of the organ of hearing. During the past century, thousands upon thousands of dissections of all other organs have been made, with the view of detecting their pathological changes, and the knowledge gained by these dissections laid the foundation for a rational and successful treatment of such organs when diseased. But, if we look back only *twenty-five years* on the subject of Aural Pathology, it will be found that scarcely a single dissection of a diseased ear had been placed on record, and

a total ignorance prevailed regarding the nature of the morbid conditions which produce deafness. The natural consequence of this ignorance was, that the Profession and the Public had no faith in any treatment of ear diseases, and, indeed, the term "Aurist" was closely allied to that of "Empiric." But about a quarter of a century ago, researches into the morbid anatomy of the ear were commenced in this country, and have since been steadily carried out here and in Germany, France, and America, and the result has been to place on record the details of more than two thousand dissections of the ear; and thereby a foundation was laid upon which rational and scientific systems of diagnosis and treatment have been erected. And it is perhaps not assuming too much to say, that the subject of Aural Surgery may now worthily rank with other branches of Surgery, and that its study will be found replete with interest by the Profession.

A comprehensive view, therefore, of the state of Aural Surgery, pointing out what has been accomplished in the last quarter of a century, and what remains to be done, is not only due to the subject in its present phase, but might greatly aid its progress. Hence, a volume lately published by the New Sydenham Society, entitled "The Aural Surgery of the Present Day," by Dr. Kramer, has rightly attracted the attention of all Surgeons who study ear diseases, and they naturally expected to find it a valuable contribution to the subject. There cannot, however, be the least doubt in the minds of those who are able to give an opinion of the book, that it is wholly unworthy of the subject it treats, and that not only does its Author lay himself open to censure by pretending that it represents the present state of Aural Surgery, but that the Council of the New Sydenham Society, by undertaking its publication, have exhibited either ignorance or carelessness. Indeed, in place of being, as its title would indicate, a comprehensive and intelligent survey of the

present state of Aural Pathology and Surgery, it is in reality little more than an advertisement of the Author's peculiar system of treating diseases of the ear, by means of his four catheters and catgut bougies. Anatomy, pathology and scientific surgery are sneered at, every modern plan for simplifying the study of ear diseases, and for enabling them to be diagnosed and treated by the members of the Profession, are wholly ignored, and the Author's system of using four catheters and catgut bougies is made to be the *all-in-all* of aural diagnostics and therapeutics. Indeed, so great an injustice has been done to the subject of Aural Surgery in the issue of this volume by the New Sydenham Society, that its perusal must call up a blush in all having any knowledge of, or interest in, its study; and doubtless the members of the New Sydenham Society have good reason to be indignant that such a production has been forced upon them.

We propose to give a brief review of this work, wherein the correctness of the above opinion will be fully evidenced by quotations, and we also purpose to place the present state of Aural Surgery before the Profession in its just light, showing how recent researches have raised the subject to its present scientific position, and rendered it capable of being followed with interest and advantage by every medical man.

Before doing this, it may be stated that, as the characteristic of every real advance in science is to simplify that which till then appeared abstruse and complicated, so every real advance in medicine and surgery tends to simplify at once the diagnosis and treatment of disease; indeed, the chief glory of our Profession is, that one labouring steadfastly in his study, or by the bedside of a patient, may possibly—probably—be working out some intricate problem in medical science which, duly unravelled and set forth, may enable his professional brethren, even when in the remotest part

of the globe, to give relief to human suffering, previously considered beyond the reach of art.

And the complaint now made is, not that our Author has failed to confer on the Profession and on society the boon above indicated, but that he has so mystified his subject, he has so overlooked all valuable simplifications by modern writers which are bringing the department of ear diseases into the domains of rational medicine, he has so vaunted as indispensable his system of passing catheters and catgut bougies, that every medical man, not versed in the study of ear diseases, will turn from his book and from the subject in a state of hopeless bewilderment.

The Work is divided into two sections:—

The General Surgery of the Ear.

The Special Surgery of the Ear.

It is desirable to pass in brief review each of these Sections.

GENERAL SURGERY OF THE EAR.

THE ANATOMY AND MORBID ANATOMY OF THE EAR.

OUR Author begins by asserting the uselessness of anatomy and morbid anatomy.

“It is never requisite, in a practical point of view, to know whether the *membrana tympani* consists of three or five membranous layers, and whether they are essentially distinct, or only separable from one another by nice dissection; whether upon its inner surface one, or even two, ‘pouches’ are discoverable or not, or in what way the auditory nerve appears under the microscope to ramify and terminate.” (p. 2.)

As well may it at once be said that structural anatomy is useless. How is it possible to ascertain whether an organ is or is not diseased, unless we first know its exact structure in health? Surely it is desirable to know that the *membrana tympani* has a dermoid layer which secretes its epidermis; to ascertain its structure, and that of the fibrous layers, whether they are muscular or not, and of what they are prolongations. (Toynbee, *Philosophical Transactions*, 1851.) Is it not as rational to treat the diseases of the *membrana tympani* without understanding the structure and relations of its epidermoid, dermoid, fibrous, and mucous layers, as it would be to treat the diseases of the intestinal canal without knowing the structure and relations of its serous, muscular, and mucous coats? Having thus proclaimed the inutility of structural anatomy, our Author proceeds to show the inutility of *morbid anatomy* also, because in the cases

dissected "the exact degree of deafness has never been in any case determined." (p. 3.) Supposing this statement to be true (and we shall show it to be quite otherwise), surely the great, the all-important, first step to be taken, in order to throw light on the diseases of the ear, was to ascertain the morbid changes its various structures undergo; without this step being taken, all attempts to practise the surgery of the ear must be empirical. Therefore, supposing that Dr. Kramer's often-repeated and most incorrect assertion were correct, viz., that Mr. Toynbee "did not examine during lifetime a single one of the cases he dissected" (*Medical Times*, vol. ii., 1863, p. 101), still it is of some value to know the changes which the several structures of the ear are apt to undergo. Surely to know this, is to take a good stride out of the chaos in which our subject was so long buried; for we are then prepared to look during life for these morbid changes, and to use remedial measures to avert them; and supposing, for the sake of argument, that morbid changes in the most important structures concerned in the function of hearing do *not* cause deafness, nevertheless it may be well to know, whether morbid changes do take place; and should it be so, it may also be well to endeavour to arrest their progress, or to avert them. But, by asserting that Mr. Toynbee "did not examine during lifetime a single one of the cases he dissected," Dr. Kramer exposes himself to a most serious charge affecting his veracity, for it seems impossible that he can have read the *Medico-Chirurgical Transactions* without being aware that the assertion has not the most remote foundation in fact. Doubtless, its palpable falseness has induced this gentleman hitherto to take no notice of it in spite of its continued reiteration for years; but it may be well now, once for all, in this vindication of the subject of Aural Surgery, to show the entire groundlessness of Dr. Kramer's statement.

The fact really is, that from Mr. Toynbee's earliest paper on

the Morbid Anatomy of the Ear, published in 1841, and in which dissections 40 and 41 are described as examples of ankylosis of the stapes to the fenestra ovalis, taken from "a deaf patient," down to the fifth and sixth series in 1855, where an account is given of "one hundred and thirty-four ears from deaf persons, the history of whose deafness was known," and who had been examined by himself during life (*Medico-Chirurgical Transactions*, vol. xxxviii.), and to the seventh series published in 1861, where in fifteen cases the symptoms of the disease in organs subsequently dissected were given (*Medico-Chirurgical Transactions*, vol. xlv.), it may be said with truth, that in every course of lectures, series of papers, or communications to the Medico-Chirurgical, Pathological, and other societies, is there palpable evidence of the inaccuracy of Dr. Kramer's oft-repeated statement.

PHYSIOLOGY.

In the course of his pages devoted to *Physiology*, our Author states that, "Müller's experimental evidence of the conduction of sound through the ossicula proves nothing, and has received no support from any other quarter." (p. 7.) Is Dr. Kramer aware that there is only one physiologist (Mr. Brooke) who argues against Müller's opinion, which has been generally received for many years, and that this opinion opposed by Mr. Brooke received support by a recent series of experiments undertaken by one favourable to Mr. Brooke's view (*Proceedings of the Royal Society*, 1859); also that recent interesting pathological observations by the Germans support Müller's theory? Regardless of the generally received opinion which has lately had support from experiment and pathology, our Author boldly states that sound does not travel through the chain of bones, and "therefore that the vibration of the ossicula, as regards the conduction of sound, will not, as Erhard thinks, be interfered with if

their investing membrane be thickened, indurated, swollen, covered with mucus or in any other way diseased." (p. 8.) Thus, having stated that sound does not pass through the ossicles, *in favour* of which view not a particle of evidence is adduced, but *against* which a whole host of evidence *has been* adduced, our Author proceeds to affirm "therefore" disease of the ossicles cannot produce deafness ! And while speaking of the action of the chain of bones, our Author wholly overlooks a function recently shown to belong to it. It has been demonstrated by a variety of dissections and experiments that this chain of bones and its muscles also act as the analogues of the iris in the eye, by adapting the ear to different degrees of sound, and a knowledge of this function is of great value to the surgeon, inasmuch as it may enable him to appreciate certain symptoms entirely the result of the derangement of this function of the bones. (*Proceedings of the Royal Society*, 1852.)

But how does it happen that in treating of the *physiology* of the ear, all notice of one of the more recent contributions and one which is exercising a most important bearing on treatment, is left wholly unnoticed ? Since the discovery of the Eustachian tube by the great anatomist whose name it bears, until recently, it was held that this tube in its normal state is *always open*, and that the air in the tympanum is always continuous with that in the fauces. The result of this belief induced surgeons *to look upon a closed condition of the Eustachian tube as a disease, and to endeavour to keep the tube constantly open*. Recent researches have, however, proved that in a normal state the Eustachian tube is *closed*, and that an open condition of the tube is one of the most *unendurable of affections*. Wharton Jones and Hyrtl indicated that the faucial aperture of the tube acts as a weak valve ; but it was demonstrated by Toynbee that the faucial aperture is really shut, except during the act of swallowing ;

and by numerous dissections in man and animals, he clearly proved that the tube is opened by the action of muscles, these muscles in man being the *tensor and levator palati*. (*Proceedings of the Royal Society*, 1853.) Surely in a review of the present state of Aural Physiology, this discovery regarding the Eustachian tube ought to have been described, and its most important bearing upon therapeutics fully pointed out.

DIAGNOSIS.

A simple means of diagnosis in cases of ear diseases is, above all things, desirable, so that medical men may be able to decide upon the nature of the cases which come before them; and doubtless the tendency of all late scientific research has been greatly to lessen the difficulties in the way of forming a diagnosis. But a grave objection to Dr. Kramer is, that he would fain make the diagnosis even of ordinary cases of ear diseases complicated and difficult, when there is not the least occasion for its being so. Taking no heed of symptoms, a careful consideration of which is assuredly of the highest value, and which indeed often are alone sufficient to point definitely to the nature of the disease, Dr. Kramer looks to the exploration of the ear chiefly by catheters and bougies as the "all-in-all." Thus he says—

"As regards treatment, it is of little importance to determine the nature of the primary cause, nor does the investigation into the constitutional affections which accompany the aural disease (as plethora, anæmia, amenorrhœa, abdominal disease of any kind, nervous debility, &c.) prove of much service in enabling us to arrive at an early and accurate diagnosis." (p. 34.)

Doubtless, as an adjunct to a history, an exploration is of high value; but instead of being complicated and painful, as is Dr. Kramer's system, it may be simple and wholly painless. And first, regarding the point of throwing light into the external *meatus*. The author of the

book before us denies that "any important therapeutical measures can be determined on, or any operation performed with certainty, unless *the rays of the sun* brilliantly illumine the bottom of the meatus." (p. 24). Again, "The direct light of the sun is indispensable." (p. 25). Now, there is no doubt that sunshine is not requisite, nor is it necessary to use *direct* light. On the contrary, *direct* light is not easy to manage, because the head of the operator is apt to obstruct the direct rays; and, again, it is not easy to get the head of the patient at the precise angle necessary for the reception of the rays; and, thirdly, it is not often that direct rays can be caught. But light reflected by means of a small mirror back into the ear of a patient standing between the operator and a window, is most easy of management and most efficient, as any medical man can in an instant prove by experiment; and Dr. von Troeltsch doubtless is correct when he says that sunlight is almost too brilliant, and that of the sky or a white cloud ample. This point, at first sight insignificant, is really of high importance, for in it lies the first step—a most important step—in the exploration of the ear; and it cannot be too generally known that by the aid of a mirror two or three inches in diameter, the light from an ordinary window may be thrown into and condensed in the ear, so as to be much stronger than the original direct light. This simple suggestion is, however, wholly unheeded by our Author, and a plan recommended which is less efficient and often impracticable; artificial light is wholly ignored, and the invaluable lamps of Segalàs and Miller left unnoticed, although every one who has used a laryngoscope and lamp full well knows the high value of artificial light. Again, instead of taking notice of the inexpensive and simple silver speculum now in general use, the long-bladed, unwieldy and costly steel implements are alone recommended.

On proceeding to the *second means of exploration*, it will

be found that Dr. Kramer's work is even less worthy of confidence, and still more calculated to mislead. It has already been stated that recent researches have shown the faucial orifice of the Eustachian tube to be closed, except during the momentary act of swallowing. It is, however, most essential *that the tube should be opened during the act of swallowing*, so that during this act mucus may escape from, and air may enter, the tympanum, or deafness ensues from the accumulation of mucus and the absence of air. When a medical man is consulted on a case of deafness, it is, therefore, most important for him *to ascertain whether the Eustachian tube is pervious, and opens during the act of swallowing*; and it is very easy for him to arrive at a decision on this point. In the *first* place, it is well known that in a healthy ear the simple act of swallowing produces a certain sensation of movement in the ears; *secondly*, the act of swallowing when the mouth and nostrils are closed produces a feeling of fulness and a crackling sound in the ears; *thirdly*, the mouth and nose being closed during a forcible attempt at an expiration, air is felt to rush into the tympanic cavities. If the otoscope be used (an elastic tube eighteen inches long, tipped at each end with ebony or ivory), the crackling sound produced by the act of swallowing, and the bellows-sound produced by air blown into the tympanic cavity by the patient ought to be distinctly heard by the surgeon. If these sounds *are* heard by the surgeon, and if, in addition, their production is attested by the evidence of the patient, *there cannot be a doubt that the Eustachian tube is pervious*. Further corroborative evidence will be afforded by looking at the patient's drum while air is being blown into the tympanic cavity, for the drum will usually be seen to move outwards. (*Proceedings of the Medico-Chirurgical Society*, 1858.) *Lastly*, Dr. Politzer, of Vienna, reasoning on Mr. Toynbee's discovery, that the

Eustachian tubes are opened by muscular action during the process of swallowing, has suggested that a simple tube be introduced, about half an inch into one of the nares (the nose and mouth being otherwise closed), and that *air be then blown through the tube while the patient swallows, and thus opens the Eustachian tubes*; by this most simple and efficient operation, if the Eustachian tubes are pervious, the air is at once felt by the patient and heard by the surgeon (through the otoscope) to rush into the tympanic cavities.

Now, here are simple, rational, efficient plans for diagnosing the state of the Eustachian tube—plans easy of practice by every medical man. And what says our Author on this important subject? Leaving unnoticed the simple plan of swallowing or forcing the air with closed nostrils, without any allusion to the simple use of the otoscope of Mr. Toynbee, or to the most ingenious plan of Dr. Politzer, he declares that his own “acoustic, tactile, and decidedly objective method of examining the middle ear” (p. 82) is absolutely necessary. And what is this method?

“We make use of *four* catheters, gradually increasing in size, on blowing through which we are able to obtain a succession of streams of air, which, whilst they gradually increase in force, can, at the same time, be constantly maintained of equable strength.” (p. 27.) “This is again to be followed by the introduction of catgut bougies through the Eustachian tube.” (p. 25.)

While this “objective method” is being practised on children, who “are often restless and unruly,” they are to be held, head, hands, and legs, and no notice is to be taken if

“Patients frequently complain when the catgut bougie is pressed onward, *of more or less stabbing pain* in the neck or in the region of the ear.” (p. 31.)

Caoutchouc bougies are not equal to catgut—

“The former often inflict an amount of injury upon the diseased and always very irritable mucous membrane of the tube, which may be followed by serious consequences.” (p. 32.)

But supposing, for the sake of argument, that the Eustachian catheter should be used, let us see how its use is to decide the state of the tube. Dr. Kramer sneers at Sir William Wilde, who has done so much to bring Aural Surgery into the sphere of scientific medicine, and his description of the sound produced by the patient's blowing into the tympanum as "a sort of thug" is ignored; but he has perfect confidence when he hears through his "diagnostic tube." And what is the nature of the sound, upon the presence of which Dr. Kramer can speak decidedly, as to the patescence, or closure, of the Eustachian tube? Surely the answer is most indefinite. It is indicated by the expression, "*the air passes freely.*" (p. 30.)

"This important *acoustic symptom* (!) presents different characters according as there is diminished permeability of the Eustachian tube, diminution of the cavity of the tympanum, increase or diminution in the amount of secretion from both these parts of the organs, and finally, after the *protracted* employment of catheters the size of which has been gradually increased in diameter from one to four. It (this acoustic symptom) thus leads to our objective knowledge of the various organic changes (!) of the normal structure and secretion of the tube and tympanic cavity." (pp. 30-1.)

Truly no language can be more mystified and more unscientific than the account of this so-called "acoustic symptom,"—"the air passes freely," while of the particular sound produced by the air "passing freely" not a word is said.

In *vindication* of this branch of our subject, and to prove to the Medical Profession that Dr. Kramer has most needlessly complicated it, let it be known that for the diagnosis of the Eustachian tube and middle ear, the Eustachian catheter is very rarely necessary, and indeed, as Dr. Kramer intimates, it is often most injurious. *First.* When the Eustachian tube is pervious, the act of swallowing produces a sensation of slight movement in the ears; the act of swallowing

with closed mouth and nostrils produces a feeling of fulness, and a cracking sound in the ears, which sound can be heard by the surgeon through the otoscope; the act of forcing the air with nose and mouth closed produces a bellows-sound, which is distinctly felt by the patient, and heard by the surgeon through the otoscope; and when the act of swallowing is performed while air is blown into the nose by the surgeon, on Politzer's plan, the air is felt and heard to enter. *Secondly.* When the Eustachian tube is *not* pervious, as air speedily disappears from the tympanum, the membrana tympani becomes externally much more concave than natural, while on exploration the whole of the above symptoms are absent.

And, before leaving this introductory part of the volume, in vindication of the subject of Aural Surgery, it may be well again to protest against the view advocated by Dr. Kramer, that diseases of the ear are to be treated independently of "any constitutional affections." Why is the ear to be cut off, as it were, from any connexion with, or dependence upon, the general system, when every medical man knows full well that many diseases of the ear are purely "constitutional affections?" Truly, nothing can be more calculated to degrade the subject of Aural Surgery than the diffusion of the idea that diseases of the ear are to be treated without regard to general symptoms.

SPECIAL SURGERY OF THE EAR.

IN pursuit of our object—the proof that the subject of Aural Surgery is far in advance of this volume—we shall now proceed to an examination of Section 2, the Special Surgery of the Ear.

THE DISEASES OF THE MEATUS.

Here we are somewhat startled by the announcement of the fact that the meatus is lined by *mucous membrane*. “In accounts of the diseases of the meatus, we frequently meet with the striking error that this passage possesses no mucous membrane.” (p. 42.) We hitherto had held to the belief that the membranous meatus was a prolongation of the dermis, and was, like it, lined by epidermis. A *cuticle* is, however, allowed to this mucous membrane; but it must differ from the ordinary cuticle, inasmuch as this cuticle is liable to inflammation. In the “Tabular Arrangement of the Diagnosis, Prognosis, and Treatment of the Diseases of the Ear,” we are told that “inflammation of the cuticle of the meatus and ceruminous glands” is thus diagnosed: “On investigation of the meatus by means of my aural speculum with clear illumination, we find it filled with ceruminous matter.” This disease is thus treated:—“Injection of the ear by means of a caoutchouc syringe and luke-warm water.” (p. 139.) How cuticle can be inflamed—how the symptoms of its inflammation can be “a collection of *ceruminous* matter,” why “the treatment of inflammation of the cuticle of the meatus is completed on the removal of the ceruminous matter” (p. 45), and why the ear is to be syringed by “a *caoutchouc*” syringe (usually quite inefficient for the removal of cerumen), and with “luke-warm” water, which so often produces faintness, are all problems the solution of

which must surely be attended with very considerable difficulty by students of Aural Surgery in this country. In opposition to all these assertions, and in vindication of our subject, it may be stated, that recent researches have shown that not only is the meatus externus lined by epidermis, but also by dermis, which extends over the surface of the fibrous laminae of the membrana tympani. (*Philosophical Transactions*, 1851.) *Secondly*, an accumulation of cerumen of course is never a symptom of disease of the cuticle; *thirdly*, cuticle may become hypertrophied, and may accumulate as the result of disease in the dermis, but the cuticle itself is never inflamed, never contains blood-vessels; *fourthly*, an accumulation of cerumen is, in reality, very often merely a symptom of some deeper-seated disease in the ear; and we are told, for instance, that out of one hundred and sixty-five ears from which accumulations of cerumen were removed, the hearing power was restored only in rather more than a third; in the other instances some other disease was the source of deafness. (*The Diseases of the Ear*, by J. Toynbee, F.R.S., 1860, pp. 46-47.) Further, in this section we are told that carious bone is usually thrown off "by imperceptible exfoliation" (p. 48), and that in cases of caries of the meatus "complete deafness is a constant result." (p. 55.) Both statements are incorrect; it is well known that large masses of bone come from the meatus without producing any deafness, the tympanic cavity being untouched and uninjured. In this branch of the subject we are left without a word upon that most interesting disease recently described, in which the petrous bone and the brain are often implicated—viz., sebaceous tumours in the external meatus; and there is entire silence regarding another disease, almost as important and still more frequent—osseous tumours in the meatus. (*Medico-Chirurgical Transactions*, vol. xlv.; and *Proceedings of the Provincial Association*, 1849.)

We observe the terms *otitis* and *otorrhœa*, the use of which has been so strongly opposed in this country, are at last abandoned; but Dr. Kramer must bear in mind that this change can only be effected by a knowledge of the morbid anatomy of the ear (of which he seems wholly ignorant), and not by leaving diseases unnoticed.

DISEASES OF THE MEMBRANA TYMPANI.

This section commences with two statements, and neither of them surely has the faintest foundation in fact.

"Inflammation of the membrana tympani is always followed by a *kind* of disorganization, producing thickening and perforation of this originally very delicate structure." (p. 56.)

"The prognosis of the diseases of the membrana tympani is very unfavourable, so far as regards the recovery of its normal state, because there is a great deficiency of vessels of any kind, and especially of the absorbents." (p. 57.)

Now, in the first place, what does Dr. Kramer mean by inflammation of the membrana tympani? Does he mean inflammation of its dermoid, fibrous, or mucous layers? For it is very rare for the three to be affected at one time, and the symptoms and appearances differ most markedly according to the layer affected. Further, so far from inflammation of one or all of these layers *always* producing disorganization and perforation, as a rule, the membrane recovers its perfectly healthy state, and perforation is really a rare result. Further still, we beg to state that the membrana tympani is remarkable for its large supply of blood-vessels, and that no deficiency of absorbents has ever been noticed. Our Author continues—

"Every disease of the membrana tympani, in order that it may be rightly understood and rightly treated, requires the most careful examination by means of *my split speculum* [the cumbrous instrument before alluded to and now no longer in use in England], with good sunlight illumination, the place of which can neither be supplied by reflected light from white walls or white clouds (Troeltsch),

nor by the light of oil, or gas, or photogen lamps, even when increased by a stream of oxygen (Voltini), nor by convex lenses or reflectors." (p. 57.)

The simple answer to this statement is, that for the purpose of viewing the membrana tympani sunlight is *not* necessary; the membrane may be *distinctly seen* by reflected light, from gas, or from the sky, or a light cloud, or from a candle. We cannot devote space to the exposition of more than one or two of the errors which abound in Dr. Kramer's observations on acute and chronic inflammation of the membrana tympani—errors, doubtless, originating in his entire ignorance of the structural and pathological anatomy of the ear. Thus, he asserts that—

"Polypi of the inflamed membrana tympani are frequent;"
that—

"The primary cause of the caries of the temporal bone, of the discoloration, detachment, and suppuration of the dura mater attached to it, of the sinuses and of the cerebrum and cerebellum, as shown by dissection, lies in inflammation and perforation of the *membrana tympani* (!)" (p. 64);

that—

"When the tumefaction of the mucous membrane of the tympanic cavity is considerable, great difficulty is experienced in effecting a cure; whilst periostitis in this part must be recognised and subdued at once, if it is not to prove fatal to the patient by the uncontrollable rapidity of *its* extension to *that* lining the cavity of the skull." (p. 66.)

In reply, it must be known that dissection thus far has shown polypi of the membrana tympani to be very rare, that inflammation of the membrana tympani has *never* been known to cause caries of the temporal bone (*Lectures on the Pathology and Treatment of the Affections of the Ear causing Disease in the Brain, Medical Times and Gazette, 1855*); and, thirdly, periostitis cannot extend to the cavity of the skull, simply because there is no separate periosteum, "the

mucous membrane" (called elsewhere by the Author a "*serous membrane*") in reality forming the periosteum. Again—

"In chronic inflammation of the *membrana tympani* we find that the air will only pass by driving a strong blast of air through Catheter No. 3." (p. 64.)

Why in chronic inflammation of the *membrana tympani* there should be any impediment to air entering the *tympanum* is to us a profound mystery.

ON THE ARTIFICIAL MEMBRANA TYMPANI.

In this review of Aural Surgery of the present day we turn with some degree of interest to the writer's experience and opinion regarding the use of artificial substitutes for the *membrana tympani*—and, first, regarding the use of *cotton wool*:—

"I have seen very considerable increase of the inflammation, enlargement of the perforation, and increase of the deafness, result from its use, so that, upon the whole, I consider the moistened ball of cotton wool, so far as regards that form of deafness which accompanies chronic inflammation and perforation of the *membrana tympani*, a very uncertain palliative, applied with difficulty, and easily producing injurious effects." (p. 75.)

Of the *artificial membrana tympani* made of vulcanized india-rubber—

"It is as difficult to maintain in its position as the ball of the cotton wool. . . . The mechanical injurious irritation which the artificial *membrana tympani* exercises upon the inflamed *membrana tympani* to which it is applied is yet greater than that of the ball of cotton wool." (p. 76.)

It has been clearly proven that in certain cases of deafness, and these are usually associated with a perforate *membrana tympani*, the presence deep in the meatus of a piece of cotton wool, or a fine layer of vulcanized india-rubber, is a *complete remedy*; which cases of deafness, previous to the use of these substances in this manner, had been considered *wholly incurable*. To give some idea of the

success attendant upon the application of substances in the mode just noticed, it may be stated that the maker of the artificial membrana tympani (Weiss) reported, some months ago, that the number of these artificial membranes sold up to that time was 17,900. Doubtless, of this number many had been tried without benefit; but, on the other hand, it must be quite apparent that this large number could not have been sold had not their value in curing deafness been clearly shown by a large number of successful cases. Indeed, there can now be very few medical men in any country who are not cognizant of the beneficial effects produced by the artificial membranes—effects produced, too, without any “injurious effects;” and still our Author, who, judging from his own words, has probably never properly applied them, coolly condemns them, and thus endeavours to deprive the public of a simple remedy which has thus far been a real boon. And, in thorough ignorance of the anatomy and physiology of the organ of hearing, he asserts that “the attempts hitherto made to explain the action” of these substances “completely fail” (p. 76), being evidently unable to comprehend the very interesting anatomical and physiological explanations advanced in this country, and also more recently by distinguished surgeons in Germany.

Did space permit we could enter at considerable length into a review of late researches regarding the structure, functions, and diseases of the membrana tympani—researches well worthy of consideration by every student of scientific surgery, but which are wholly ignored by Dr. Kramer.

DISEASES OF THE MIDDLE EAR.

But it is to a consideration of the Diseases of the Middle Ear that our Author devotes most space, and we are obliged to say, it is in this branch of his subject that his ignorance is most manifest. In the first place, no position

has been more clearly demonstrated by recent pathological research, than that the diseases of the tympanic cavity and Eustachian tube may be, and most frequently are, quite independent of each other. For example, a thickening of the mucous membrane of its faucial orifice closes the Eustachian tube—its relaxation has the same effect ; impaction of mucus in the tube, hypertrophy of the osseous or cartilaginous canal are conditions producing deafness, in which the state of the tympanum is seen not to have the least share : yet our author writes as follows :—

“Notwithstanding the anatomical differences between the lining membranes of the tympanic cavity and of the Eustachian tube, it is impossible to separate these diseases in practice by any points of physical diagnosis.” (p. 87.)

It would really be as rational to say that it is impossible to separate diseases of the urethra from those of the bladder “by any points of physical diagnosis.”

Before considering the diseases of the middle ear according to the novel pathology of Dr. Kramer, and discovered, not by dissection, but by the use of “my four catheters and catgut bougies,” we must protest against this novel mode of studying pathology, partaking as it does of the cruelty of vivisection :—

“When we introduce into the *healthy* Eustachian tube of an adult a catgut or caoutchouc bougie, we find that it glides easily along, without any pain, let, or hindrance, for one inch and a half, till it reaches the entrance into the tympanic cavity. On pushing it still further, but varying in different people from half a millimetre to four millimetres from its entrance into the tympanic cavity, *pain of such an extremely acute character is produced* that we are obliged to withdraw the catgut or bougie immediately. Whether this is produced by contact of the bougie with the membrana tympani (to which it is conducted) or with the malleus or stapes (!) it is impossible to determine.” (p. 83.)

The Germans must indeed be a patient, long-suffering race, if they calmly bear Dr. Kramer's operations, especially

so as these operations are, without any doubt, utterly useless. Why pass catgut bougies into the "healthy Eustachian tube?" Not to diagnose its state; for this purpose we have seen that no operation is required; not to treat the Eustachian tube, for it is "*healthy*;" not to treat the tympanic cavity, for "it is useless to push the catgut" there. Then for what human, or rather inhuman, purpose is catgut forced into "different people's" tympanic cavities, producing extremely acute pain, and running a risk of dislocating the stapes and destroying life? We suppose Dr. Kramer would reply—"In order to help me to diagnose my four kinds of exudation in the tympanic cavity"—Dr. Kramer's pathological discovery, and which we now proceed to consider.

"CATARRHAL INFLAMMATION OF THE MIDDLE EAR.

"This disease attacks the investing *serous* membrane of the cavity of the tympanum and mucous of the Eustachian tube, and is recognised by the various changes which are produced in the processes of nutrition and secretion. The chief forms which present themselves, and which but seldom run into one another, are—

- "(a) Cases of suppressed exudation.
- "(b) Cases of free exudation.
- "(c) Cases of free and interstitial exudation.
- "(d) Cases of interstitial exudation." (p. 86.)

These four remarkable pathological conditions, in which "we can well dispense with the proofs of their existence, *derived from actual dissection*, which indeed have never yet been obtained" (p. 84), and in which the Author says, "nor is the ear organically affected" (p. 86), were discovered by "the acoustic, tactile, and decidedly objective method of examining the middle ear, now for the first time published," (p. 32), *i.e.*, by the aid of "catheters and bougies."

"The diagnosis of these affections is determined, in the first place, by convincing ourselves by ocular inspection of the healthy condition of the external ear; and, secondly, by the physical exa-

mination of the middle ear, by means of the insufflation of air through a series of regularly graduated catheters, and the use of the diagnostic tube. In certain cases it is further requisite to introduce bougies through the catheters." (p. 87.)

And it is for these "four kinds of exudation," the existence of which has never once been proved by "actual dissection," that Dr. Kramer ignores the researches into the morbid anatomy and pathology of the ear carried out by Mr. Toynbee during nearly twenty-five years, and the very valuable and interesting scientific observations of Mr. Hinton in this country (*Medico-Chirurgical Transactions*, vol. xxxix), and of Erhard, Moos, Politzer and Troeltsch in Germany, and of several labourers in France and America. We might charitably assume Dr. Kramer to be ignorant of Mr. Toynbee's researches, had he not an opportunity of becoming fully acquainted with them in the German edition of this gentleman's work by Dr. Moos; for he tells Dr. Erhard that Mr. Toynbee has never demonstrated the mucous membrane of the ear to be "indurated," the fact being that a rigid condition of this membrane is one of the most constant morbid states pointed out by this writer.

We purpose now, in the performance of the duty assigned to us, to examine, one by one, these four kinds of disease named by Dr. Kramer; before doing so, we will merely draw attention to the general statement, that we have four forms of exudation in a so-called "serous" membrane, which are "identical with those which may be observed in the *mucous* membrane of the respiratory tract." (p. 84.)

(a) "*Catarrhal Inflammation of the Middle Ear, with Suppressed Exudation.*"

By the strange term "suppressed exudation" we presume is meant that there is a deficiency of mucous secretion in the tympanic cavity. Supposing this disease to take place—

and we have no evidence that it ever does—how can it possibly affect the hearing? We are told that “the capacity to respond to the vibrations of sound is diminished,” and the object is to restore the “*serous* secretion in the middle ear.” (p. 89.) The *treatment* consists in injecting a solution of liquor potassæ into the tympanic cavity, but we are told that, “as a general rule, the propulsion of the solution into the tympanic cavity at first increases the fulness in the ears.” (p. 90.) “The operation of insufflation not only effects no improvement in the symptoms, but actually produces an immediate and very decided increase in the hardness of hearing, noise, and sense of fulness in the ears. The more force employed in performing the operation, and the more frequently it is repeated, the larger and the more serious is the increase in the severity of the symptoms.” (p. 88.) Still we are told to practise insufflation, though “we must take care not to blow with too much force through catheter 3 or 4.” (p. 90.) Thus it is presumed that the “*serous* secretion” of a *mucous* membrane is suppressed, then that “the suppressed exudation” causes deafness, then that a solution of liquor potassæ restores the serous secretion and cures the patient.

(b) “*Catarrhal Inflammation of the Middle Ear with Free Exudation.*”

In this disease—

“Air can generally only be blown in through catheters No. 3 and 4, and some force is requisite.” (p. 91.) “The entrance of a strong stream of air into the cavity of the tympanum generally produces, especially in young and excitable persons, a *strong rigor*, and the patient moves the hand to the head involuntarily.” (p. 91.) “If the catheter No. 1 or 2 be used, the *thin* and *weak* stream of air which passes through it may not be able to press its way into the cavity of the tympanum.” (p. 92.)

Let us here point out the utter absurdity of Dr. Kramer's four Eustachian catheters. The area of No. 1, the smallest-

sized catheter, is about the same as that of the bony Eustachian tube, *consequently a stream of air larger than that passing through No. 1 catheter can by no possibility go through the Eustachian tube*; and if air can be blown at all through the Eustachian tube, it can be blown through No. 1 catheter. What, then, is meant by a success in blowing air through No. 4 catheter—twice as large as the bony Eustachian tube—when it is said that air cannot be blown through a catheter which is the size of the bony tube? It would be equally absurd to say that, supposing a stricture in the urethra to be one-tenth of an inch in diameter, air blown through a catheter one-tenth of an inch in diameter *would not* pass the stricture, while air blown through a catheter one-fifth of an inch in diameter *would* pass the stricture. It is no answer to our objection to say that the thick mucous membrane of the Eustachian tube may shut up the aperture of a small catheter and not of a larger one, because a thickened state of the mucous membrane would quite close the osseous tube, and equally impede the passage of air from both catheters; but in the case before us it is not pretended that the mucous membrane is thickened. Let us look at the treatment in this class of cases. “Free exudation” means an exudation of mucus, and in such a case doubtless the mucous membrane is irritable; and how irrational, how dangerous, is the proceeding of forcing in air, to the production of “*strong rigors*,” especially when we find that

“If the strength of our lungs be not sufficient to bear the fatigue of repeated acts of insufflation *without injury to ourselves, the strong compression machine will prove of service!*” (p. 95.)

And for what purpose are these “strong rigors” induced, and for what purpose is “the strong compression machine” used? To drive it (the free exudation) through the Eustachian tube into the “tympanic cavity.” (p. 95.) What is to become of it there? If “the free exudation is very

tenacious," "we take up a few drops of a warm solution of gum arabic," and "quickly blow the drops into the tympanic cavity." "The operation must then be repeated daily till the patient is well." We must not omit to mention that this free exudation is sometimes "sero-mucous or purely mucous," and that there may be "over-excitement of the inflamed membrane of the tympanic cavity." . . . "This is the result of too strongly and too frequently blowing in air, as is shown by its general occurrence after forcing in cold air by the compression machine." (p. 96.) Then, in the name of humanity, we ask, why does Dr. Kramer "frequently force cold air into the tympanum;" why does he go on for "several months;" and why say "the operation must be repeated daily?" But we have not done: "In bloated unhealthy patients" "a solution of sulphate of zinc should be blown into the tympanic cavity through No. 1 catheter." (p. 97.) We are left in the dark as to where the sero-mucus, mucus, gum arabic, and sulphate of zinc ultimately go.

(c) "*Catarrhal Inflammation of the Middle Ear, with Free and Interstitial Exudation.*"

"If we blow through No. 1 or 2 catheter into the Eustachian tube, we can only hear a distant, dull sound in the ear of the patient; and even when the air is blown through No. 3 or 4, it generally passes with difficulty, and perhaps only *by making the patient swallow at the same time*. It may then be heard to enter the tympanic cavity, and apparently also the ear of the observer." "If we inquire into the real cause of the difficulty in blowing air through the tube, we perceive immediately that it arises from a constriction in the tube, produced by interstitial deposit." (p. 98.)

The supposed disease, then, is really stricture of the Eustachian tube—a disease, by the way, of great rarity; and how is it to be treated? By injections of a solution of nitrate of silver.

"The solution should penetrate as far as the stricture. The

patients should not make any movement of swallowing, *lest some of the fluid should be impelled through the stricture into the cavity of the tympanum.*" (p. 102.)

Now, in the first place, if a tube is pervious to a fluid it is also pervious to air; and as all we require is that the tube be pervious to air, why is a solution of nitrate of silver to be injected "some weeks or months?" Again, how is it possible for the muscles of the Eustachian tube, which act only on its faucial orifice (*Proceedings of the Royal Society*, 1853), to influence in the least degree a fluid in a catheter, and that catheter being some way up the tube? If the action of these muscles can force air or fluid into the tympanum, why use catheters and bougies? If the catheter and nitrate of silver will not suffice to keep the tube open—and we have seen that it ought not to be kept open—then a catgut bougie must be used. It

"Can be pushed along the tube as far as the entrance into the tympanic cavity by moderated pressure, and without giving *very* severe pain to the patient. It should remain in this position for about a quarter of an hour, to which end the catheter may be fixed by my forehead band." (p. 104.)

Let it be observed that in this section on "Catarrhal Inflammation of the Middle Ear with free and interstitial exudation," not a word is said about the middle ear, nor about the nature of free and interstitial exudation; the section is devoted to a consideration of stricture of the Eustachian tube; and the presence of this disease is not only not demonstrated, but its absence is clearly proven.

(d) *Catarrhal Inflammation of the Middle Ear with exclusively Interstitial Exudation.*

"Catarrhal inflammation of the middle ear with free and interstitial exudation," meaning stricture of the Eustachian tube, we now come to consider the meaning of "exclusively Interstitial Exudation."

Diagnosis.—"If we direct the patient to make the experiment of Valsalva (by blowing air into the tympanum) while we listen with the otoscope,* or with our ear applied to that of the patient, we hear, or may think we hear, a crackling sound in his ear. If, not content with this, we blow air into the Eustachian tube either by means of a machine, or through a catheter of medium size, and *feel* or hear air press through it into the tympanic cavity, we may, in all these cases, no doubt make the diagnosis of free passage of the current, and may suppose that there is no organic disease in the middle ear; or, in other words, we may diagnose the presence of nervous hardness of hearing or deafness. But if my variously-sized catheters be employed for the operation, we obtain quite different results. The air never reaches the tympanic cavity through Nos. 1 and 2 catheters, but only through Nos. 3 or 4, and not even then unless the patient at the same time makes a movement of swallowing. The stream passes generally only by fits and starts; but even if it be continuous, though fine, the sound produced is dull, non-resonant and dry, and there is not only no improvement in hearing, but, if the operation be performed too frequently, or the pressure employed be too great, there is *an actual increase of the deafness*, whilst *noises in the ear*, which may not have hitherto been perceived, are *induced*." (p. 107.)

Then follows the use of catgut bougies:—

"Which strike against one or several consecutive constrictions; these can only be overcome by exerting more or less pressure, so as to force the instrument into the tympanic cavity, a proceeding which is always accompanied with most acute, stabbing pain, continuing till it reaches the middle of the cavity. It follows from this that in these cases the tube is by no means free, but, on the contrary, is considerably narrowed by interstitial exudation. In like manner the cavity of the tympanum is greatly diminished in capacity." (p. 107.)

We are almost ashamed to have to draw attention to such statements as the above; but it is our duty to do so, and to show what they are really worth. In the first place, it is owned that air can be blown into the tympanic cavity

* We are glad to find the term *otoscope* used for this instrument, which Dr. Kramer has adopted and had previously called his "diagnostic tube."

by the patient, or "through a catheter of medium size," so that *palpably the Eustachian tube is pervious*. Now, we do not hesitate to affirm that a small Eustachian catheter is as efficient as a large one, and all that is requisite is that air may pass to and fro, and mucus may pass out; therefore, in the cases diagnosed the Eustachian tube fully performed its functions. Although, in *none* of these four cases of catarrh with exudation, is "the ear organically affected," "organic disease" is proved to exist by "my No. 4 catheter followed by bougies." We ask, therefore, why the Eustachian catheter is used at all in these cases, especially as the pressure of air does harm. And supposing, for the sake of argument, that the mucous membrane of the Eustachian tube is thickened, is it to be tolerated that catgut bougies are to be pushed through this tube until "the most acute stabbing pain" is induced? When air passes into the tympanum through the Eustachian tube, and there is no improvement of the *hearing*, *we may be assured that the cause of deafness is not an obstruction of the Eustachian tube*, and it is more than folly to force air, and to push bougies into the tube with all their accompanying horrors.

"The *prognosis* is exceedingly unfavourable, and the more so in proportion to the small size of the catgut bougie being required to penetrate the constriction in the Eustachian tube, and in proportion also to the acuteness of the pain experienced in passing it."

Treatment.—Air is to be blown into the tympanum by catheters, although the patient can blow it in himself; nitrate of silver or catgut bougies are to be used to the Eustachian tube. The Author's contradictory statements regarding the treatment are, however, somewhat puzzling. He writes—

"The next difficulty to be overcome is the re-establishment of the passage through the tube by the absorption of the interstitial exudation. A few drops of a solution of nitrate of silver (gr. iij.

ad. 3j.) may be employed for this purpose in young subjects, or in cases where the disease has been of short duration." (p. 110.)

In the next page we read—

"The application of irritating salves, of red precipitate, and of iodine, or of solutions of *nitrate of silver*, iodine, &c., even when very weak, have always proved highly injurious, though I have frequently employed them, with the aid of catgut and elastic bougies." (p. 111.)

We beg to ask why these solutions and irritating agents have ever been applied, much less "*frequently*," when they have always proved "*highly injurious*?"

And thus, again, in the fourth kind of "catarrhal inflammation of the middle ear, with exclusively interstitial exudation," not a word is said about the middle ear.

In taking leave of Dr. Kramer's chapter on the four kinds of exudation in the middle ear, we are bound to state that nothing more unworthy of the subject can possibly have been penned. This opinion will, we think, be agreed in by all who take the trouble to compare the foregoing observations with the following.

Résumé of our Knowledge of the Diseases of the Tympanic Cavity and Eustachian Tube.

We will begin by stating decidedly that, as a rule, the diseases of the tympanic cavity and Eustachian tube are wholly distinct from each other, and can be diagnosed with facility. The application of cold air, and other agents, to the outer meatus, are constantly producing diseased action in the tympanic cavities, while the Eustachian tubes remain in a natural state; on the contrary, a diseased state of the mucous membrane of the fauces often implicates the Eustachian tube, leaving the tympanic cavity intact. For example, the mucous membrane of the tympanum may become chronically or acutely inflamed, hypertrophied, or rigid, or even ossified in parts, so that the base of the stapes is per-

fectly ankylosed, the cavity of the tympanum may contain mucus, or pus, blood, cholesterine, or serofulous matter, and the *Eustachian tube may remain perfectly healthy*; on the other hand, the faucial orifice of the Eustachian tube may be closed by thickened mucous membrane, or by simple relaxation of the mucous membrane, the canal itself may be closed by mucus, or by bone, and the *tympanic cavity may present no traces of disease*, excepting those produced by the closure of the Eustachian tube. And it is due to the subject to state that, during the last twenty-five years, hundreds of dissections have been made which clearly indicate the morbid conditions to which the tympanic mucous membrane is subject. These morbid conditions of the mucous membrane may be summed up briefly as follows:—

1. Simple congestion.
2. Hypertrophy: with or without an accumulation of mucus.
3. Rigidity.
4. Ossification of the fibres surrounding the base of the stapes, causing ankylosis of the stapes.
5. Ulceration.

And these morbid states are capable of easy diagnosis, as will be perceived by reference to recent works on the subject.

“ NOISE IN THE EARS, WITHOUT HARDNESS OF HEARING.”

Such is the title of the next section of the work before us, and strangely, this affection, or rather symptom of an affection, is placed with the diseases of the *Middle Ear*, as the Author considers “the seat of the noises perceived *can only be in the chorda tympani!*” This novel view of the deranged functions of the chorda tympani nerve has for its foundation the fact that—

“ If air be driven in with *great force* through a No. 3 catheter

(producing direct irritation of the chorda tympani), an increase in the noise is an immediate result." (p. 113.)

With Dr. Kramer *post hoc* is always *propter hoc*, but we should, nevertheless, venture to suggest that, "if air be driven with *great force*" into the tympanum, it is probable that this great force, acting on the nervous expansions in the labyrinth by pressure on the membrane of the fenestra rotunda, or upon the stapes, might quite as probably be the source of these noises, especially as we know that giddiness, faintness, and even death have been known to follow a forcible injection of air into the tympanum. But a few lines lower we are told that these noises depend upon abnormal irritability of the membrana tympani also; and the ground for this assertion is, that—

"Strong insufflation against the membrana tympani and the chorda causes an increase of the noise." (p. 113.)

For this "abnormal irritability" of the membrana tympani and chorda tympani, the Author injects a few drops of a solution of nitrate of strychnine! (gr. i. in ℥j. of water). This is to be—

"Injected into the cavity of the tympanum, through a No. 1 catheter; this may either be repeated daily, or once or twice a week, according to the activity of absorption possessed by the membrane of the tympanic cavity."

Truly, the Sydenham Society has been the means of introducing novel views of pathology and therapeutics to English medical men!

The Author concludes his Section on "Diseases of the Middle Ear" by stating that he has not included "those of the cells of the mastoid process," as these are never affected "independently;" the fact is thus wholly overlooked, that the mastoid cells have been shown to be subject to disease, which not unfrequently extends to the *cerebellum*, without any affection of the tympanum. He also wholly overlooks the numerous cases and dissections illus-

trating the progress of disease from the tympanic cavity to the *cerebrum*. (*Lectures on the Diseases of the Brain arising from Affections of the Ear*.—*Med. Times and Gazette*, 1855.)

DISEASES OF THE INTERNAL EAR.

In this chapter, under the head of "Nervous Hardness of Hearing and Deafness," we are met by the remarkable statement that the proportion of cases of nervous deafness to other cases of deafness is *only four in a thousand*. This statement is the more remarkable because in Dr. Kramer's former work, out of three hundred cases of deafness, one hundred and fifty-two, or *about one-half*, were stated to be cases of Nervous Deafness, of which number seventy-three were either cured or relieved by the aid of ætherous vapour, which being injected—

"Passes through this cavity (the tympanum) into the labyrinth by means of the *foramen ovale*! it has to fill an equally small, or even smaller, space than that formed by the cavity of the tympanum." (p. 273.)

How it is possible for the vapour of ether to pass through the *foramen ovale* which is closed by the base of the stapes? and how this labyrinth can be filled by this vapour when it is already full we have never been informed. No one can for a moment doubt that in stating the cases of nervous deafness to be only four in a thousand, Dr. K. has made a notable mistake; it being quite evident that in the present day, with increasing sources of mental and bodily excitement, the cases of deafness from debility of the nervous apparatus of the ears form a large proportion of cases of disease in the ear; indeed, every medical man is fully aware how common are the cases in which deafness is accompanied by noises of various kinds, and increased by mental or bodily excitement—cases which markedly have been brought on by some over-strain of the nervous system. But all symptoms

are overlooked by Dr. Kramer, who takes no heed whatsoever of the interesting division which this class of diseases has undergone, viz., into those dependent upon *physical* and those dependent upon *mental* causes—two classes entirely distinct, and requiring wholly different treatment (Toynbee, *Diseases of the Ear*)—but boldly asserts that it is “*quite unjustifiable to attribute nervous deafness to nervous debility.*” (p. 129.) Finally, it is affirmed that, in cases of “nervous deafness,” there is “*complete loss of hearing.*” (p. 142.) Now, of all things proven regarding the nature of Ear Diseases, it is most clearly proven, that diminished power of hearing, whether temporary or permanent, is, as a rule, produced by and is associated with defective nervous power; secondly, that every shade and degree of diminished hearing occurs in cases of nervous deafness; and, lastly, that “complete loss of hearing” is fortunately very rare.

DEAF MUTISM.

The point of real importance in studying the subject of congenital deafness is the extent to which the structures of the organ of hearing are affected, so that the surgeon may be led to form an opinion as to the probable success of remedial measures. Now, our Author, with inexcusable negligence, here as elsewhere, slurs over the subject of the pathology, and leaves out all notice of the recent dissections of the ear in deaf mutes, and recklessly avers that—

“In many, perhaps even in the majority of cases, *no* structural changes are discovered either in the labyrinth or in the centric extremity of the auditory nerves.” (p. 131.)

We ask Dr. Kramer for proofs of this statement; for if we turn to the table in the work above referred to, giving the results of 36 dissections by different anatomists, we shall find that in every case, with the exception of one of Mr. Toynbee's five, well-marked morbid lesions *were* found. As

these morbid lesions are sometimes reported to be comparatively slight, and as in 313 congenital cases carefully examined at the London Deaf and Dumb Asylum, 141 of the children heard sounds of greater or less intensity, that gentleman recommends measures to be carried out in cases where there is some hearing power, for the purpose of bringing about, by due exercise, a healthy condition of the organ and of increasing the hearing power. To this end the use of elastic and other hearing tubes is recommended, so that sonorous vibrations may be concentrated upon the drum of the ear, and the whole apparatus stimulated. In proof of the value of this plan of treating deaf and dumb children, its author cites three cases, one at considerable length, in which a deaf and dumb lady of twenty-three gradually became able to hear and learned to talk. Of this case Dr. Kramer simply says, "The improvement experienced in the hearing was of no account." But it cannot be too forcibly impressed upon the minds of all who are consulted about the deaf and dumb, that when there is *no* power of hearing then no treatment ought to be carried out, and, above all, no operation performed; for who can estimate the amount of misery, arising from fear of cruel treatment, liable to be caused to a deaf and dumb child who has been subjected to painful and wholly useless operations. And yet Dr. Kramer tells us, that he has "examined a considerable number of deaf mutes with the aural speculum, aural catheter, diagnostic tube, and catgut bougies." (p. 131.) We are tempted to exclaim, Poor deaf and dumb children! why push catgut bougies into their Eustachian tubes, with all the horrible "stabbing pains in the neck," when dissection has never shown the Eustachian tube to be affected in deaf and dumb children, and when even a simple inspection of the membrana tympani is sufficient to show that it is not affected? We say, unhesitatingly, that no operations

on deaf and dumb children are in the least degree necessary; and, further, that operations are apt to be highly injurious.

CONCLUSION.

It may be well that the readers of "The Aural Surgery of the Present Day," as published by the New Sydenham Society, should look at another view of the subject; we therefore purpose, in conclusion, briefly to indicate the real state of Aural Surgery at present, as compared with its state a few years back.

And, first, regarding the exploration of the *external meatus*. Instead of, as formerly, simply looking into the meatus by allowing day or candle light to fall into it, or by merely exploring it with a probe, we at present use a reflector or a lamp with a tubular speculum, and thus light up every part of the meatus, and if it is clear from obstruction we gain a view of the *membrana tympani*; accumulations of cerumen or epidermis, tumours of various kinds, hypertrophied conditions of the dermis, and the several sources of discharge can be seen, and the presence or absence of foreign bodies can be decided upon, there being no longer a fear of dangerous operations for the removal of the latter, when in reality they are not present. In place of syringing the ears in every case of deafness, and thereby often doing serious mischief, at *present* a due exploration at once decides if syringing be necessary, and when necessary, the removal of the accumulation having been effected, we are led to seek for the affection of which this accumulation was symptomatic. Instead of dropping in oils or tinctures in all cases of obstruction, at *present* we are aware of the frequent presence of bony or sebaceous tumours, and we treat them accordingly. Instead of using the terms *otorrhæa* and *otitis* in

cases of the manifold discharges and inflammations to which the ear is subject, we *at present* specify the source of the discharge, or the nature and seat of the inflammation. *At present* we know that polypi are, as a rule, symptomatic of some deeper affection of the organ, and we do not seek to cure them by mere extraction, but by striving also to remove the cause. In place of talking of inflammation of the *membrana tympani*, we now specify whether it is the dermoid, fibrous or mucous layer that is affected. We no longer feel that deafness arising from an aperture in the *membrana tympani* is incurable, *at present*, being acquainted with the real structure of the *membrana tympani*, and how it is kept in a resilient state, we use artificial substitutes for this organ. *At present* we also know the various morbid conditions to which the *membrana tympani* is subject, as relaxation, tension, hypertrophy of its layers, calcareous degeneration, &c. Instead of being in darkness regarding the diseases of the tympanic cavity, we *at present* know the various diseased conditions to which its mucous membrane is subject, as hypertrophy, rigidity, the formation of false membrane, and the various kinds of accumulation, as mucus, pus, scrofulous matter, and blood, which are apt to take place there. We know also the intimate relations existing between this mucous membrane and the dura mater, and we know that disease of the mucous membrane of the tympanum is apt to extend to the cerebrum, and that of the mastoid cells to the cerebellum. *At present* we know the double function of the chain of bones, also the nature of their diseases, especially of that interesting disease ankylosis of the stapes, of which so many dissections have been of late years placed on record. Of the *Eustachian tube*, instead of believing that it ought to be always open, and endeavouring to keep it open, *at present* we know that it ought to be open *only* during the momentary

act of swallowing, that its patescence is one of the most unendurable of diseases ; we also can diagnose the state of the Eustachian tube and tympanic cavity by means of the otoscope and a simple tube, without the aid of the Eustachian catheter ; we also know the various causes of obstruction of the Eustachian tube, and when the catheter ought and when it ought not to be used ; we know also that when the faucial orifice of the tube is obstructed, the prime duty of the surgeon is to remove all impediments to the opening of the tube by its muscles. In place of looking upon all cases of noises in the ear as instances of nervous deafness, we *at present* know that noises in the ears are produced by affections of various structures which induce a deranged or defective action of the nervous apparatus ; further, we *at present* know that debility of the nervous apparatus of the ears may depend upon either physical weakness or overmental strain. We also know that suppuration in the labyrinth is apt to originate disease in the medulla oblongata. And instead of speaking of cases of "caries of the petrous bone extending to the brain," we *at present* are aware that the affections of certain parts of the organ of hearing produce disease in certain and distinct portions of the brain, and that the cause of disease extending from the ear to the brain, as a general rule, is the detention of matter in one of the cavities of the ear. In short, it may be said that we are now so far acquainted with the structure and pathology of the ear that, in cases of disease or deafness, we are *at present* enabled to particularize the tissue affected and the nature of its affection, and also to point out the proper treatment. Doubtless the subject of the diseases of the ear is still beset with many difficulties ; indeed, it is one requiring so great and so prolonged attention that it is probable, at least for some years to come, surgeons will be required to devote

themselves solely to Aural Surgery; but we contend that that branch of surgery has been raised to the dignity of a scientific study. If further proof of this statement were wanted, it may be found in the fact that at least three London hospitals now have Aural Surgeons attached to them, and regular courses of lectures on the diseases of the ear are delivered in some of our medical schools.

We have now completed the task rendered requisite by the publication of this volume on the present state of Aural Surgery, by the New Sydenham Society. We think we have shown that the work does not give the faintest idea of the present state of Aural Surgery, but that on the contrary it is wholly unworthy of its subject, and we have given grounds for believing that the subject is worthy of the present state of medical science.

And, if asked why we consider the task of thus vindicating the present state of Aural Surgery incumbent upon us, we reply, because we consider it the duty of this country to uphold, as far as possible, the scientific character of the study of Ear Diseases; for, when we turn to Europe and America, we find that the scientific workers in this branch of professional study (and they are now numerous and able) unceasingly point to the researches conducted in this country on the anatomy, physiology, pathology, and therapeutics of the ear, as forming no insignificant share in the foundation of scientific Aural Medicine.

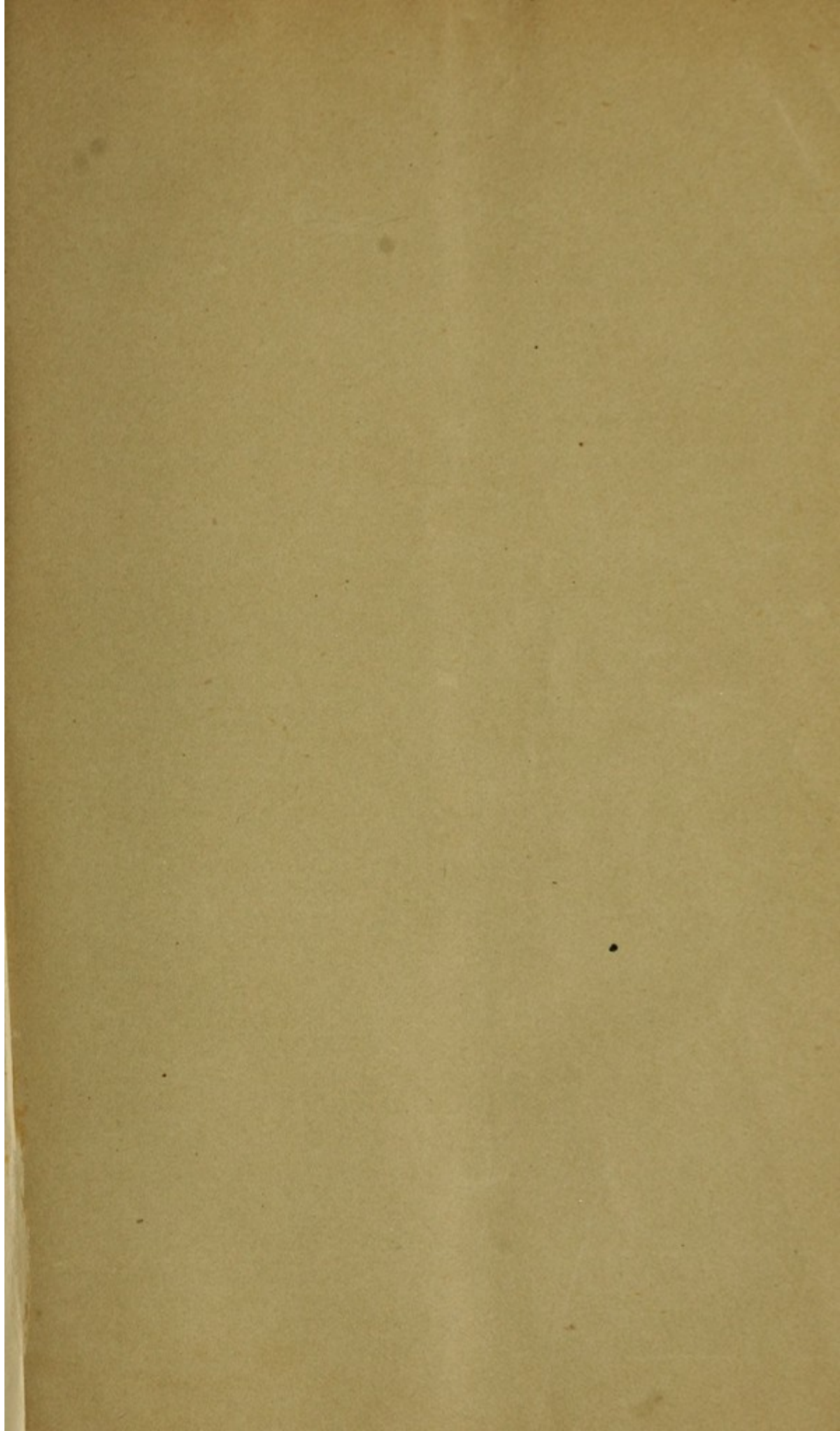
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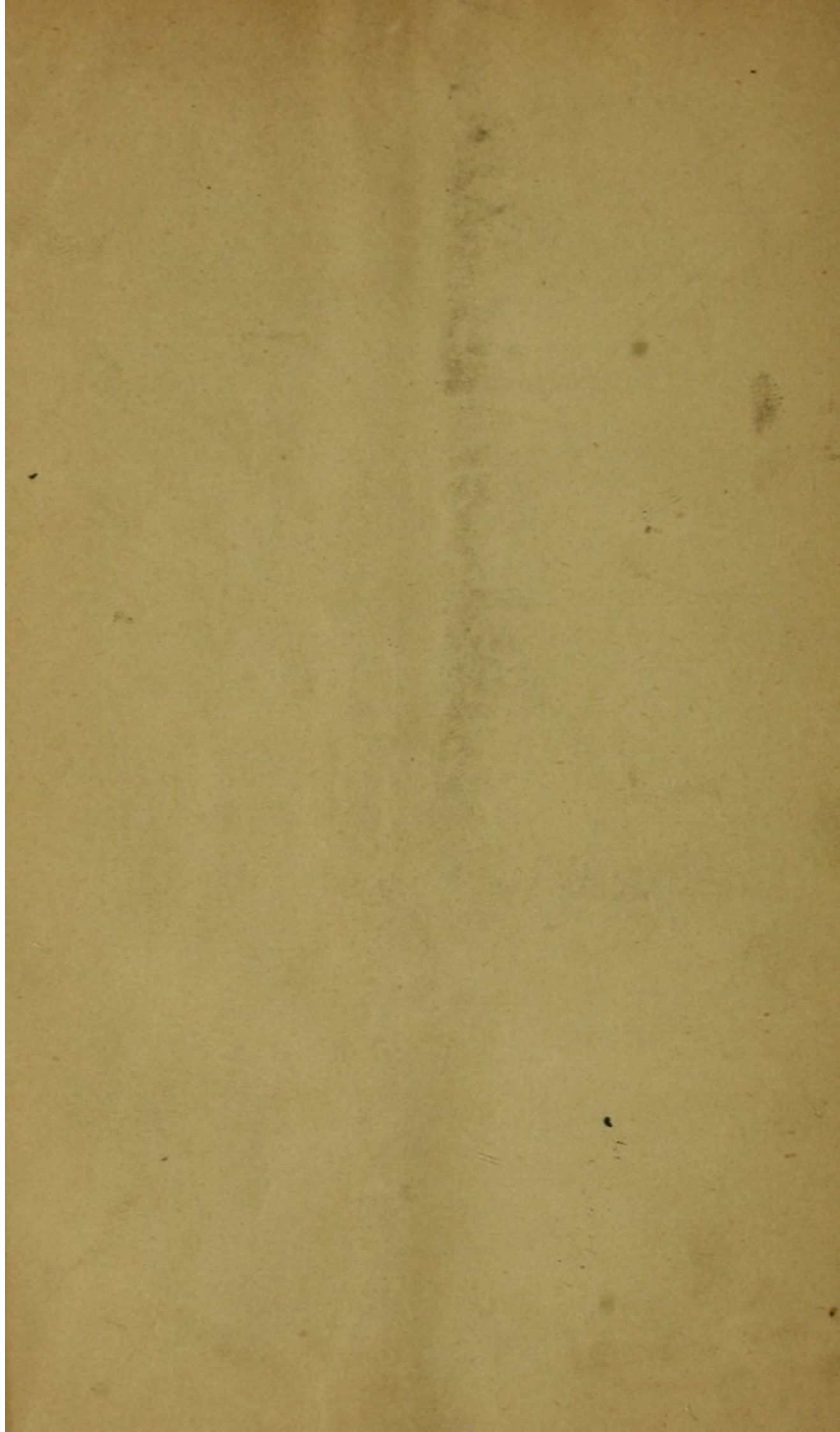
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1709. — Plan van den Kraton te Palembang m. h. omliggend terrein, en de geprojecteerde perman. versterking tegen de aanvallen eens inlandschen vijands. Beau dessin, p. W. J. Brouwer. 1 feuille. gr. in-fol. f 1.50
1710. **Pekalongan**, d. Melvill van Carnbée. Bat. 1854. 1 feuille, color. fol. f 1.25
1711. **Philippines**. — Karte von den Philippinen und den Sulu Inseln. Gotha, 1832. 1 feuille, col. gr. in-fol. f 1.—
1712. **Preanger**. — De Preangse landen. Dessin en couleurs du 17e siècle. gr. in-fol. f 1.50
1713. — Kaart van de Preanger-Regentschappen, naar het origineel van den Heer Beetjes, A^o 1821. Beau dessin colorié, 6 feuilles collées sur toile, dans un étui. f 8.—
- Cette carte provient de la collection du gouvern.-génér. van der Capellen.
1714. — Kaart van den berg Galoeng-Goeng. Beau dessin en couleurs. 1822. coll. s. toile, dans un étui. f 2.50
1715. — door Versteeg. Bat. 1857. 2 feuil. color. fol. f 2.50
1716. **Probolinggo**, d. Melvill van Carnbée. Bat. 1856. 1 feuille, color. fol. f 1.25
1717. **Samarang**. — Landkaart van Samarang tot Domon. Dessin en coul. du 17e siècle. 2 feuilles, coll. s. toile, très-gr. in-fol. f 4.—
1718. — Kaart der voornaamste wegen in de residentiën Samarang, Soerakarta, Djoedjakarta en Kadoe. Ech. 1 à 200.000. 's Hage (c. 1860.) 1 feuille très-gr. in-fol. f 2.50
1719. — Kaart der geprojecteerde spoorwegen tusschen Samarang en de Vorstenlanden, bew. d. h. topograph. bureau. Echelle 1: 200.000. 1 feuille. fol. f 1.—
1720. — d. Versteeg. Bat. 1858. 1 feuille, col. fol. f 1.25
1721. **Soembawa**, d. Melvill Carnbée. Bat. 1856. 1 feuille, color. fol. f 1.25
1722. **Soerabaya**. — Plans de Soerabaya, 1841. 2 Dessins, 1 feuille. fol. f 1.50
1723. — Kaart van de jurisdictie der catholyke parochie van Soerabaya. 's Bosch. c. 1840. 1 feuille. fol. f 1.—
1724. — Jansen, M. H., Kaart der vaarwaters van Soerabaya. 's Hage, 1848. 1 feuille. très-gr. in-fol. f 1.—
1725. **Sumatra** by W. Marsden. (Lond.) 1810. 1 feuille. fol. f 1.25

1726. **Sumatra.** — Figurative kaart van een gedeelte van Sumatra voornamel. aantoon. de wegen en rivieren welke naar de Padangsche binnenlanden afloopen. Beau dessin. 1 feuille. in-fol. f 3.—
1727. — Kaart van een gedeelte der westkust van Sumatra. Breda, (c. 1840.) 1 feuille. gr. in-fol. f 1.—
1728. — Carte de l'île de Sumatra, p. Melvill de Carnbée. La Haye, 1848. 1 feuille. gr. in-fol. f 1.—
1729. — Beijerinck, L. W., Het gouvernement Sumatra's westkust. Breda, 1852. 2 feuilles. très-gr. in-fol. f 2.—
1730. — Même carte, coll. s. toile, av. d. rouleaux. f 2.50
1731. — Etappe-kaart van Sumatra's westkust van Moco Moco tot Sinkel. Très-beau dessin p. Bosch Evers. 1857. 4 feuilles. gr. in-fol. f 5.—
1732. — Westkust, d. Versteeg. Bat. 1857. 2 feuell. color. fol. f 2.50
1733. — Reede van Ayer-Bangies en van een gedeelte d. westkust van Sumatra d. Osthoff. Beau dessin à la plume. gr. in-fol. f 2.25
1734. **Tangerang.** — Grontkaart van Tangerang van Keijaria syn steenhof tot aen de Mokervaert nytstreckende. Dessin en coul. du 17e. siècle. 4 feuille gr. in-fol. f 4.—
1735. — De rivier van Tangerang. Dessin en couleurs, du 17e. siècle 2 feuilles. gr. in-fol. f 2.50
1736. — Kaert van 't Bad boven aen de Tangerangse rivier. Dessin en coul. du 17e. siècle. 3 feuell. gr. in-fol. f 2.50
1737. **Tagal**, d. W. F. Versteeg. Bat. 1857. 1 feuille, color. fol. f 1.25
1738. **Ternate**, Halmaheira en omringende eilanden, d. Melvill van Carnbée. Bat. 1854. 1 feuille, color. fol. f 1.25
1739. **Timor.** — Caert van het eylant Timor. Dessin en couleurs, du 17e. siècle. 1 feuille, très-gr. in-fol. f 2.50
1740. **Sunda-od.** Borneo-Meere, p. Berghaus. Gotha, 1835. 1 feuille, color. gr. in-fol. f 1.—
1741. **Kaart** van de rivieren Sontar en Bacassy bereyst door den colonel J. T. Holsteyn. Dessin en coul. du 17e siècle. 2 feuilles, gr. in-fol. f 3.—
1742. **Caerte** van de landen gelegen tusschen de versche riviere van Angsiol of de Tongou, de Cleen en Groot Sjackon, de oude Sontar, de Scheepinangh en de groote Rivieren, etc. 1696. Dessin original. 4 feuilles. gr. in-fol. f 4.—
1743. **Afrique**, p. Jaillot. Amst. B. et J. Ottens. (1740.) 1 feuille, color. gr. in-fol. f 1.—
1744. **Mer d'Ethiope, La**, ou deuxiesme partie de l'Océan. (Amst. Janssonius. c. 1640.) 1 feuille. fol. f 1.—
1745. **Carte** comparée d. régences d'Alger et de Tunis, p. Lapie. Par. 1829. 2 feuell. color. gr. in-fol. f 1.25
1746. **Vues d'Aden**, de Mombaza, de Quiloa et de Cefala. Gravure du commencement du 17e siècle. 1 feuille. fol. f 1.25
1747. **Côte de Guinée.** — Carte de la Côte de Guinée. Amst. J. Janssonius. (c. 1640.) 1 feuille. fol. f 1.—

