E' AFRICA C. O. 26 IN -5 25th Hovember 1925. CARBON FURL FROM WASTE FELLTALLE BATTER. Anni U.S of S Peds .etter setting forth the resident Mrs A.M. Mart's researches, requests intervi Permit U.S. of 1 CONTRACT TO From two allert N sensi 14 MINUTES Pus ~ 9421/20 mound color The utter aca d ? Copy all is the before on sight for

34249/25

18. Hilltop Road. 26 10V 25

25th. November, 1925. 700 ..

Hon. W. Ormeby Gore, Esq., M.P., Colonial Office. Downing Street, S.W 1

Sear Sir

Re'e title to the story of August lither lest, and reconstitute and the correspondence relating at the request of Mrs. etter cetting fort the results of g r onte passediel with the parties sation and mercial use of Warte Veretable setter of the all to living

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13. Hilltop Road,

West Hampstead.

Kov 25th. 1925.

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De Under Secretary of State Sylvanial Office.
Downing Street 5.8

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Referring to court office the passion of a live cover amount for the factor of the court of the

liac-rma Fragrano Slephant Grass - 1 Dear herus

...on their receipt I subjected while to by Patented

The following forwarded the Sarton powder to
List following following following for analysis

In the control of the same of

have the recent ofter many years of a relativity as the harmonic form of the chimal present that the form of the chimal present to the chimal present to the chimal process of the chimal control of the chimal to the chimal control of the chimal to the chimal control of the chimal to the chimal control of the control of t

Concollection of the receio is ground one to make getor carbonisetton if required at the , and passing man 'easy; three' to you took Refuse on also be relatived, and harman markey to a solid union by James. The content is and for a

binding purposes have an astonishing effect in keeping the particles from becoming disintegrated; thus giving a sustained or retentive heat for an abnormal period. The bys-products of Coaldust or dumps should prove very valuable, these being obtained from the Velatiles during carbonisation.

Expensive and complicated machinery with high technical skill is quite unnecessary for the production of the Carbon and the period of effecting carbonisation is very short.

I should greatly appreciate your giving instructions whereby a small simple Government laboratory may be temporarily placed at my disposal, thus enabling meto give a demonstration of my process before any Government Expert you care to appoint. A large sized Gas Stove with Gas Rings on the top with a ventilating chimney, plus a small hand press for the solidification process, is all that I require for a small demonstration. At the present moment my experiments are being conducted under extremely disadvantageous circumstances in my own house. A many important data cannot be obtained. You will observe that the Carbon of Cocca-nut Shells give the high percentage of 12,400 B.T.Us.

It will be interesting for you to also note that the loss by grinding <u>prior</u> to the <u>carbonisation</u> of your various samples only amounted to about 1.4% and I presume, they were merely sun-dried. I am submitting samples of the various grasses - ground, and both before and after solidification.

This grinding or pulverisation is done by a machine which has been found by me in every way satisfactory, and the No. 1. Standard Mill will grind these materials at about the rate of 4 to 6 cwt. per hour. They could be installed in units or, no doubt, large machines could be made.

I have not attempted to work out the estimates of cost as I am unaware of the cost of native labour per ton for gathering the grasses, but I think it may be safely assumed that the total cost of production will not exceed one third of the present price of Coal in Central Africa and many other of our Dependencies, and in a great many countries the Carbon blocks can be made where Coal is almost unobtainable, unless at a prohibitive price for ordinary Commercial use. Various samples of Coal Dust, Lignite, Peat, Sudd, etc., which have been solidified into small blocks by my process are available for your inspection.

I have samples of <u>Carbon Powder</u> produced from the actual Vegetable and Refuse Matter received by me from Uganda under your instructions, and also a sample of Nile Sudd ground into powder and then solidified by my process. The power to resist the action of water after consolidation has not yet been determined, but there appears no doubt whatever that they can be manufactured practically saterproof

The enclosed Anal tical Rep of theer will further enable you to form some definite lpinion upon the enormous potential value of the Empire's rescurces now lying whilly undeveloped, but which you, personally, have evidently not overlooked

I talli.

Yours faithfully,

of letter 1

B.T.U.'s per 1b

TESTS of CARBONISING

Mineral and Vegetable Matter & Refuse

under the "Hart Process" (Patent)

Remarks

The following analyses have been made by Sir Alfred Herbert's firm, Messrs. Marconi Limited, and at the Home Laboratory.

Laboratory

Report.

escription of sample

ignite	(Coal) Carbon	1	11,140
eat		(de-hydrated by machinery)	11,050
straw		THE S	10,240
Paddy Hu	ısks		6,650
-	or Sudd		6,650
Malayan		·	8,130
Sudd Ca:		D The state of the	3,500
		n v v village	8,650
			8,370
	. 5		7,850
al Du	et	4	10,900
	ist Shell		12,400
.e >	idi v Ve _b Refuse		10,250
leat (Somerset)	• 10,50) Calories 5540	10,500
		" washed & dried 509	9,180
		" wet 490	8,820
	Donegal)	533	0 9,660
0.0	ic ash residue sly 4.88, 3.5 sepectively pen air (Marc	oni Rep et)	
2021	Dust	Time	arbon produced
	:	30 minutes 30 " 20 "	750 "750 "430 "650 "720 "
900			

oal Dust (cont.)	. 235	704 Carbon	protuc
est of Coal		640	
800	30	655	
800	30	660	
900	30	760 685	
800	30	420 640	• / 11
900	30 ·	800	-Aug 8
44	consumed: 1- 4 Th	nerms *	
The Callering are	the Samples of th	Notine Co.	bre e
ofuse sent for Carbon Central Africa) at th	isation by the Add	ing Governor of	Uganda
Costos Afer	#PG 983	Contraction (Contraction)	phiai O
Dracacos Fragrans		Annual Control	*
Elephant Grass Cane Sugar (Refus	•)		
They were carboni	sed by the "Hart I	Process", and Sir	Alfred
erbert's Laboratory R	u H	540	
	Value of Materia		
Costos Acer Pracaena Fragrans		8330 B.T.U. per	16
llephant Grads ame Sugar (Refüse)		10200	
200	4		
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(Rigned) W. C. BOTTOMLEY	* /	p
(Rigned) W. C. BO		
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